New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Technical Support, 11th Floor
625 Broadway, Albany, New York 12233-7020
Phone: (518) 402-9553 • **FAX:** (518) 402-9577
Website: www.dec.state.ny.us

Denise M. Sheehan
Acting Commissioner

MEMORANDUM

TO: Dan Fuller, Project Manager, Region 7
Dave Smith, NYSDEC - DER Remedial Bureau B
Gary Litwin, NYSDOH - DEHI Bureau of Environmental Exposure Investigation
Jim Burke, Regional Hazardous Waste Remediation Engineer, Region 7
Anthony Quartararo, NYSDEC - DEE Superfund and Voluntary Cleanup Bureau
Joe Ryan, DEE Program Attorney, Region 7
Christina Dowd, NYSDEC - DFWMR Bureau of Habitat
Anne Hohenstein, NYSOSC
Susanne Wither, NYSDEC, Bureau of Technical Support

FROM: Kelly Lewandowski, NYSDEC - DER Bureau of Technical Support Kelly A Lewandowski

SUBJECT: Brownfield Cleanup Program Application
Binghamton Plaza, Site No. C704049

DATE: AUG 1 2 2005

The attached Brownfield Cleanup Program Application for remedial work at the subject site has been forwarded to you for your records and/or processing according to the established Brownfield Cleanup Program procedures. If you require additional copies or the complete series of the related application's attachments, please contact the project manager, Dan Fuller at 607-775-2545.

The Time and Activity Codes for the site assigned by LATS are: 61053 (on-site) and 61054 (off-site).

Attachments
MB/ca

Distribution
Original (with all attachments) to:
Dan Fuller, NYSDEC - Region 7
Copy (with all attachments) to:
Gary Litwin, NYSDOH - DEHI Bureau of Environmental Exposure Investigation
Joe Ryan, DEE Program Attorney, Region 7
Dave Smith, NYSDEC DER Remedial Bureau B
Anne Hohenstein, NYSOSC
Susanne Wither, NYSDEC, BTS
Copy (without attachments) to:
Anthony Quartararo, NYSDEC - DEE Superfund and Voluntary Cleanup Bureau
Christina Dowd, NYSDEC - DFWMR Bureau of Habitat

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Technical Support, 11th Floor
625 Broadway, Albany, New York 12233-7020
Phone: (518) 402-9543 • **FAX:** (518) 402-9595
Website: www.dec.state.ny.us

Denise M. Sheehan
Acting
Commissioner

AUG 1 2 2005

Mr. Michael Tomasulo
Binghamton Plaza, Inc.
c/o Galesi Realty Corp.
30 Galesi Drive
Wayne, New Jersey 07470

Re: Brownfield Cleanup Program Application
Binghamton Plaza, BCP No. C704049

Dear Mr. Tomasulo:

The New York State Department of Environmental Conservation (Department) is in receipt of your application for participation in the Brownfield Cleanup Program (BCP) pursuant to ECL Section 27-1400 et seq. As you know, the BCP is a cooperative approach between the Department and lenders, developers, and current and prospective owners. The program fosters private-sector remediation of brownfields and reduces development pressures on "greenfields." We are pleased to advise you that your application has been determined to be complete.

Pursuant to ECL Section 27-1407(5), a thirty day public comment period is to be commenced upon the Department's determination that an application is complete. During the comment period the Department will be evaluating the eligibility of the project and determine the status regarding this as soon as possible. The party seeking to participate in the BCP is required under the BCP to notify in writing the chief executive officer and zoning board of each county, city, town and village in which the proposed brownfield site is located, as well as residents of the site, the public water supplier which services the area, any person who has requested to be placed on the brownfield site contact list, and the administrator of any school or day care facility located adjacent to or near the site. Further, the Department will publish a similar notice in the Environmental Notice Bulletin.

In order to facilitate the notifications, the Department has prepared the enclosed Public Notice for you to utilize and the instructions for placing and mailing the notifications as well as the document repository location and contents. As the requestor, you are responsible for making available a copy of the application and copies of all other related attached documents such as any assessment and investigation reports and/or investigation or remedial work plans. Also, you must use this Department-approved Public Notice form and cannot provide any other or additional information when fulfilling your obligation to provide a legal notice for the newspaper of the application and comment period. The enclosed form should be provided to a local newspaper servicing the area including the brownfield site for publication no later than

August 24, 2005. Additionally, all of the above-mentioned mailings should be completed no later than August 23, 2005. To the extent that the mailings and publications are not completed in accordance with these time frames, the Department will extend the comment period for a period sufficient to comply with the required thirty day notice requirement running from the latest of the mailings or publication.

A certificate of mailing, on the enclosed form, is required to be submitted within three days of the mailing. Further, the proof of publication provided by the newspaper must be submitted within three days of your receipt of such document. These documents should be submitted to the Department's project manager at:

New York State Department of Environmental Conservation
Division of Environmental Remediation - Region 7
1679 NY Route 11
Kirkwood, New York 13795-9772
Attention: Dan Fuller

The Department will make every effort to determine your eligibility and status under the BCP forty-five (45) days from the date of this letter. We look forward to working cooperatively with you to address the environmental conditions at the brownfield site and to return this property back to productive use.

Sincerely,

Kelly A. Lewandowski, P.E.
Chief
Site Control Section

MB/ca
Enclosures

Electronic copy w/enclosures:
D. Fuller, Project Manager, Region 7
G. Litwin, NYSDOH
A. Quartararo
S. Wither

Copy w/o enclosures:
S. Bolesky (application only)

Brownfield Cleanup Program
Public Notice Instructions

A. Instructions to Requestor[1]

Newspaper

1) The enclosed public notice must be published, without modification, in a local newspaper of general circulation that services the area that includes the site no later than the date specified in the Division of Environmental Remediation's (DER) cover letter. The notice must be located prominently in the community bulletin section or comparable local section of the newspaper. The notice must be published in English and in any other language spoken by a significant number of people within the site community.

2) A proof of publication of the newspaper notice must be submitted to DER by the date specified in the DER cover letter.

Site Contact List

1) The enclosed public notice must be mailed, without modification, to the parties on the Site Contact List included with the application. The mailing must be performed by the date specified in the DER cover letter. No other materials can be mailed with this notice.

2) A certificate of mailing must be completed and submitted to DER by the date specified in the DER cover letter. (See enclosed certificate of mailing form)

Repository

1) Application package (application and appropriate documents) must be put in the site document repository specified in the public notice prior to the start of the public comment period.

B. Requestor's Instructions to Newspapers Regarding Printing the Public Notice

The enclosed public notice announces the receipt of a complete Brownfield Cleanup Program application package by the New York State Department of Environmental Conservation. Pursuant to ECL Section 27-1407(5), the public notice must be located prominently in the community bulletin section or similar local section of the newspaper. The public notice must be published by the date specified.

C. Requestor's Instructions to Parties on the Site Contact List Receiving the Public Notice

The enclosed public notice announces the receipt of a complete Brownfield Cleanup Program application package by the New York State Department of Environmental Conservation. Pursuant to ECL Section 27-1407(5), a public notice announcing the receipt of an application must be sent to parties on the Site Contact List. Please read the enclosed public notice and review the application package in the site document repository for further information.

[1] A requestor is a person who has submitted an application to participate in the BCP whose eligibility has <u>not</u> yet been determined by the Department of Environmental Conservation.

PUBLIC NOTICE

BROWNFIELD CLEANUP PROGRAM

Site Name: Binghamton Plaza
Site Address: 33 West State Street
Binghamton, New York 13901
County: Broome
Site No.: C704049
Requestor: Binghamton Plaza, Inc.

The New York State Department of Environmental Conservation (NYSDEC) administers the Brownfield Cleanup Program (BCP) pursuant to State Environmental Conservation Law (ECL) 27-1400 et seq. The BCP was created to encourage the remediation and redevelopment of contaminated properties known as brownfields. The requestor indicated above has submitted a BCP application for investigation of the site indicated above.

NYSDEC will accept public comments concerning the application. A copy of the application and other appropriate documents (application package) is available in the site document repository located at the address indicated below.

NYSDEC will review the application package and public comments received and then make a determination on the eligibility of the application.

Comments should be submitted by September 26, 2005 to:

New York State Department of Environmental Conservation
Division of Environmental Remediation - Region 7
1679 NY Route 11
Kirkwood, New York 13795-9772
Attention: Dan Fuller

Repository address:

Broome County Public Library
185 Court Street
Binghamton, New York 13901

Binghamton Plaza
C704049

CERTIFICATION OF MAILING

I certify that I mailed on _____ a copy of the attached _____ by first class mail upon the person(s) on the attached mailing list, by depositing a true copy thereof, securely enclosed in a postpaid wrapper, in the Post Office box at _____ in the City of _____, New York, which box is under the exclusive care and custody of the United States Post Office Department:

_____ _____

Signature Date

ATTACHMENT 1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

BROWNFIELD CLEANUP PROGRAM (BCP) APPLICATION

ECL ARTICLE 27, TITLE 14

9/3/04

NAME Binghamton Plaza, Inc.		
ADDRESS c/o Galesi Realty Corp., 30 Galesi Drive		
CITY/TOWN Wayne, New Jersey	ZIP CODE 07470	
PHONE 973-256-6600 x19	FAX 973-256-3526	E-MAIL miketomasu@aol.com
NAME OF APPLICANT'S REPRESENTATIVE Mr. Michael W. Tomasulo		
ADDRESS Same as above		
CITY/TOWN	ZIP CODE	
PHONE	FAX	E-MAIL

THE APPLICANT MUST CERTIFY THAT IT IS EITHER A PARTICIPANT OR VOLUNTEER IN ACCORDANCE WITH ECL § 27-1405 (1) BY CHECKING ONE OF THE BOXES BELOW:

☐ PARTICIPANT

An applicant 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.

☑ VOLUNTEER

An applicant other than a participant, including an applicant 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.

NOTE: By checking this box, the applicant 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.

Applicant Relationship to Property (check one):

☐ Previous Owner ☑ Current Owner ☐ Potential /Future Purchaser ☐ Other_____

OWNER'S NAME (if different from applicant) Same as applicant		
ADDRESS		
CITY/TOWN	ZIP CODE	
PHONE	FAX	E-MAIL
OPERATOR'S NAME (if different from applicant)		
ADDRESS		
CITY/TOWN	ZIP CODE	
PHONE	FAX	E-MAIL

SITE NAME Binghamton Plaza

SITE ADDRESS 33 West State Street CITY/TOWN Binghamton ZIP CODE 13901

COUNTY Broome | SITE SIZE (ACRES) 26

LATITUDE (degrees/minutes/seconds) 42° 6' 38.5" | LONGITUDE (degrees/minutes/seconds) 75° 54' 14.8"

PLEASE ATTACH A COUNTY TAX MAP WITH IDENTIFIER NUMBERS, ALONG WITH ANY FIGURES NEEDED TO SHOW THE LOCATION AND BOUNDARIES OF THE SITE. ALSO INCLUDE A USGS 7.5 MINUTE QUAD MAP IN WHICH THE SITE IS LOCATED.

1. DO THE SITE BOUNDARIES CORRESPOND TO TAX MAP METES AND BOUNDS? ☑ YES ☐ NO
   IF NO, PLEASE ATTACH A METES AND BOUNDS DESCRIPTION OF THE SITE.
2. IS THE SITE PART OF A DESIGNATED BROWNFIELD OPPORTUNITY AREA PURSUANT TO GML 970-R? IF YES, IDENTIFY AREA (NAME) _____ ☐ YES ☑ NO
3. IS THE SITE PART OF A DESIGNATED EN-Zone PURSUANT TO TL § 21(b)(6)? FOR MORE INFORMATION GO TO: http://www.nyloveshiz.com/Productivity_Energy_and_Environment/BrownField_Redevelopment/default.asp ☑ YES ☐ NO
   IF YES, IDENTIFY AREA (NAME) 000500 (City of Binghamton)

1. ARE ANY ENFORCEMENT ACTIONS PENDING AGAINST THE APPLICANT REGARDING THIS SITE? ☐ YES ☑ NO
2. IS THE APPLICANT SUBJECT TO AN OUTSTANDING CLAIM BY THE SPILL FUND FOR THIS SITE? ☐ YES ☑ NO
3. HAS THE APPLICANT VIOLATED ANY PROVISION OF ECL ARTICLE 27? ☐ YES ☑ NO
4. HAS THE APPLICANT BEEN PREVIOUSLY DENIED ENTRY TO THE BCP? ☐ YES ☑ NO
5. HAS THE APPLICANT COMMITTED A NEGLIGENT OR INTENTIONALLY TORTIOUS ACT REGARDING HAZARDOUS WASTE OR PETROLEUM? ☐ YES ☑ NO
6. HAS THE APPLICANT BEEN CONVICTED OF A CRIMINAL OFFENSE THAT INVOLVES A VIOLENT FELONY, FRAUD, BRIBERY, PERJURY, THEFT, OR OFFENSE AGAINST PUBLIC ADMINISTRATION? ☐ YES ☑ NO
7. HAS THE APPLICANT KNOWINGLY FALSIFIED STATEMENTS OR CONCEALED MATERIAL FACTS IN A MATTER RELATED TO THE DEPARTMENT? ☐ YES ☑ NO
8. HAS THE APPLICANT, BASED ON THE PROVISIONS OF ECL ARTICLE 27-1407 (OR A SIMILAR PROVISION OF FEDERAL OR STATE LAW), 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

1. DOES THE SITE MEET THE DEFINITION OF A BROWNFIELD SITE (REAL PROPERTY, THE REDEVELOPMENT OR REUSE OF WHICH MAY BE COMPLICATED BY THE PRESENCE OR POTENTIAL PRESENCE OF A HAZARDOUS WASTE, PETROLEUM, POLLUTANT, OR CONTAMINANT)? ☑ YES ☐ NO
2. IS THE SITE LISTED ON THE NATIONAL PRIORITIES LIST? ☐ YES ☑ NO
3. IS THE SITE LISTED ON THE NYS REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES? ☐ YES ☑ NO
   IF YES, PLEASE PROVIDE: SITE #_____ CLASS # _____
4. IS THE SITE SUBJECT TO A PERMIT UNDER ECL ARTICLE 27, TITLE 9, OTHER THAN AN INTERIM STATUS FACILITY? ☐ YES ☑ NO
5. IS THE SITE SUBJECT TO A CLEANUP ORDER UNDER NAVIGATION LAW ARTICLE 12 OR ECL ARTICLE 17 TITLE 10? ☐ YES ☑ NO
6. IS THE SITE SUBJECT TO A STATE OR FEDERAL ENFORCEMENT ACTION RELATED TO HAZARDOUS WASTE OR PETROLEUM? ☐ YES ☑ NO

PLEASE ATTACH A DESCRIPTION OF THE PROJECT WHICH INCLUDES THE FOLLOWING COMPONENTS:

- PURPOSE AND SCOPE OF THE PROJECT
- ESTIMATED PROJECT SCHEDULE

TO THE EXTENT THAT EXISTING INFORMATION/STUDIES/REPORTS ARE AVAILABLE TO THE APPLICANT, PLEASE ATTACH THE FOLLOWING:

1. **ENVIRONMENTAL DATA**
   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. **OWNERS**
   A LIST OF PREVIOUS OWNERS WITH NAMES, LAST KNOWN ADDRESSES AND TELEPHONE NUMBERS (DESCRIBE APPLICANT'S RELATIONSHIP, IF ANY, TO EACH PREVIOUS OWNER LISTED. IF NO RELATIONSHIP, PUT "NONE").
3. **OPERATORS**
   A LIST OF PREVIOUS OPERATORS WITH NAMES, LAST KNOWN ADDRESSES AND TELEPHONE NUMBER (DESCRIBE APPLICANT'S RELATIONSHIP, IF ANY, TO EACH PREVIOUS OPERATOR LISTED. IF NO RELATIONSHIP, PUT "NONE").

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 SITE IS LOCATED.
2. RESIDENTS, OWNERS, AND OCCUPANTS OF THE SITE AND PROPERTIES ADJACENT TO THE SITE.
3. LOCAL NEWS MEDIA FROM WHICH THE COMMUNITY TYPICALLY OBTAINS INFORMATION.
4. THE PUBLIC WATER SUPPLIER WHICH SERVICES THE AREA IN WHICH THE SITE IS LOCATED.
5. ANY PERSON WHO HAS REQUESTED TO BE PLACED ON THE SITE CONTACT LIST.
6. THE ADMINISTRATOR OF ANY SCHOOL OR DAY CARE FACILITY LOCATED ON OR NEAR THE SITE.
7. THE LOCATION OF A DOCUMENT REPOSITORY FOR THE PROJECT (E.G., LOCAL LIBRARY)

INDICATE KNOWN OR SUSPECTED CONTAMINANTS AND THE MEDIA WHICH ARE KNOWN OR SUSPECTED 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: _____

Current Use: ☐ Residential ☑ Commercial ☐ Industrial ☐ Other 000500 (City of Binghamton)

Future Use: ☐ Residential ☑ Commercial ☐ Industrial ☐ Other _____

Please check the appropriate boxes and provide an explanation as an attachment if appropriate.	Yes	No	Unknown
1.Do current historical and/or recent development patterns support the proposed use?	☑	☐	☐
2. Is the proposed use consistent with applicable zoning laws/maps?	☑	☐	☐

3. Is the proposed use consistent with applicable *brownfield opportunity* area designations? (See GML 970-r)	☐	☐	☑
4. Is the proposed use consistent with applicable comprehensive community master plans, local *waterfront revitalization* plans, other adopted land use plans?	☑	☐	☐
5. Are there any Environmental Justice Concerns? (See §27-1415(3)(p)).	☐	☑	☐
6. Are there any federal or State land use designations relating to this site?	☐	☑	☐
7. Do the population growth patterns and projections support the proposed use?	☑	☐	☐
8. Is the site accessible to existing infrastructure?	☑	☐	☐
9. Are there important cultural resources, including federal or state historic or heritage sites or Native American religious sites proximate to the site?	☐	☑	☐
10. Are there important federal, state or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species proximate to the site?	☑	☐	☐
11. Are there floodplains proximate to the site?	☑	☐	☐
12. Are there any institutional controls currently applicable to the site?	☐	☑	☐
13. Describe on attachment the proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural, and recreational areas.			
14. Describe on attachment the potential vulnerability of groundwater to contamination that might migrate from the site, including proximity to wellhead protection and groundwater recharge areas.			
15. Describe on attachment the geography and geology of the site.			
(Note: the 16th criteria relates to comments from the public, which *would not* be received at the time of application)			

(By applicant 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: _____ Signature: _____ Print Name: _____

(By an applicant other than an individual)
I certify that I am Executive Vice Pres. (title) of Binghamton Plaza, Inc. (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: 6/3/05 Signature: M. W. Tomasulo Print Name: Michael W. Tomasulo

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 NO: _____ **BCP SITE T&A CODE:** _____ **PROJECT MANAGER:** _____

BINGHAMTON PLAZA
BROWNFIELD CLEANUP PROGRAM APPLICATION
LIST OF ATTACHMENTS

Attachment 1: Site Information

- USGS 7.5 minute Quadrangle: Binghamton West (with site location indicated)
- Survey of the Lands of Binghamton Plaza, Inc., West State Street, Binghamton, Broome County, NY. Prepared by Keystone Associates: 1-18-05
- Tax Map

Attachment 2: Project Description

Attachment 3: Site's Environmental History

- Summary of Site History
- List of Current and Previous Owners
- Due Diligence Summary, including Sanborn Maps and EDR Report
- Limited Site Investigation Report, Delta Environmental Consultants, Inc., 30 March 2005

Attachment 4: Contact List Information

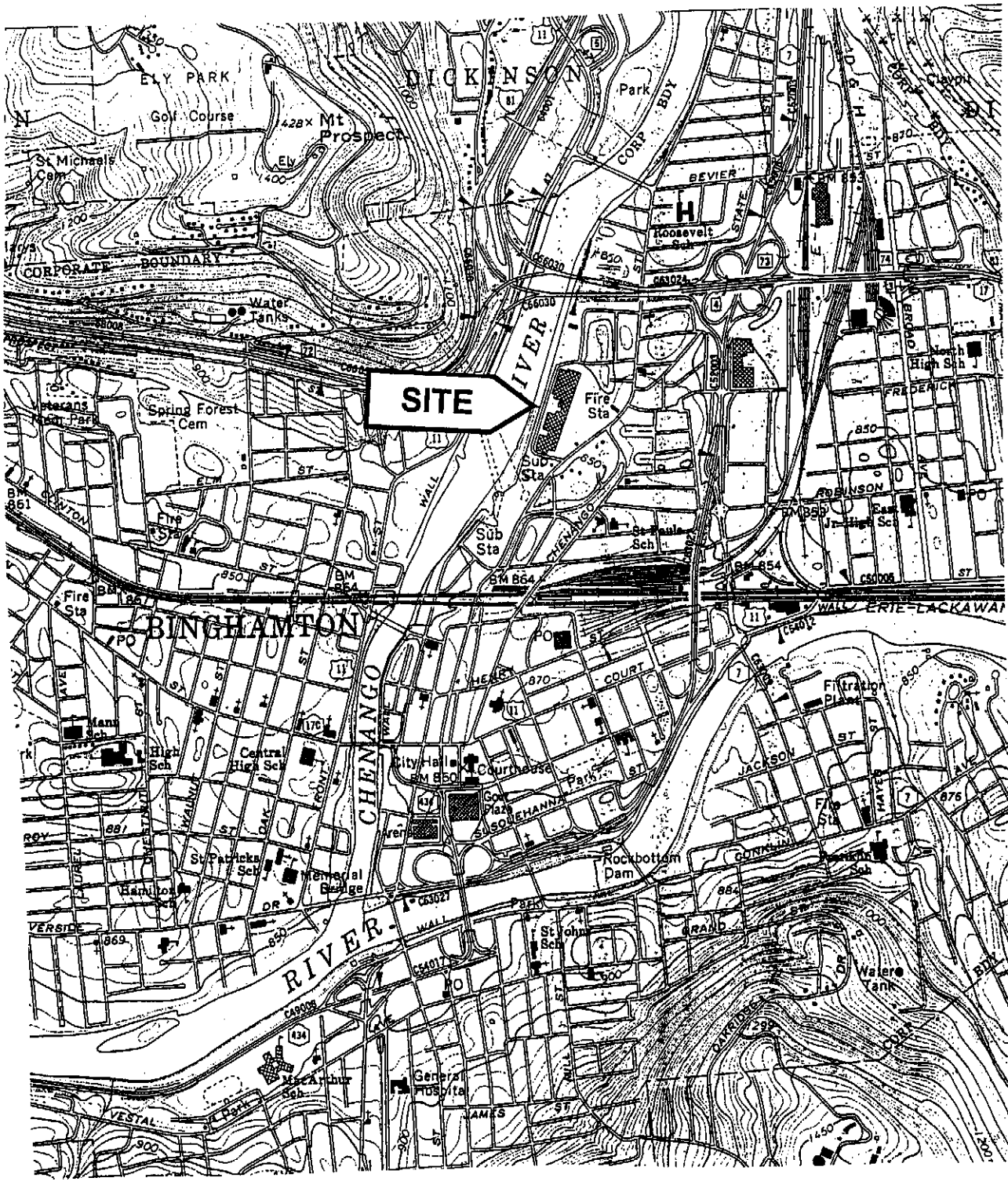
- Government Contacts (Application Item 1)
- Tenant List and Location; Adjacent Property Owners (Application Item 2)
- Additional Contact information (Application Items 3-7)

Attachment 5: Contaminant Information

Attachment 6: Land Use Factors

- Waterways and Floodplains (Application Items 10 and 11)
- Institutional Controls (Application Item 12)
- Real Property Use (Application Item 13)
- Groundwater Vulnerability (Application Item 14)
- Geography and Geology (Application Item 15)

Attachment 7: Site Investigation Work Plan



USGS 7.5 minute Quadrangle: Binghamton West

Delta Environmental Consultants, Inc.
104 Jamesville Road
Syracuse, NY 13214
PH: 315-445-0224
FX: 315-445-0793

DRAWN BY: SPA	SITE LOCATOR:
CAD FILE:	**Site Location Map** **Binghamton Plaza** **33 West State Street** **Binghamton, NY**
DATE: 5/2005	
SCALE: 1"=2,000'	PREPARED FOR: **Binghamton Plaza, Inc.**
	FIGURE: **2-1**

5-25-05

Update of adjacent property owners – Binghamton Plaza

Lot number	*Owner Information*
1101046	Cheri A. Lindsey Park – City of Binghamton
1101039	George Woodmansee, Pine West, Windsor, NY. 13865
1101038	George W. Shope, Jr., 1 N. Irving Av., Binghamton, NY, 13901
1101029	Nildo & Josephine Giangan, PO Box 487, Brentwood, NY. 11710
L.1041 P.903	Brewer Street – City of Binghamton
1110036	Fire Dept. – City of Binghamton
1115020	Robert J. Skrabalak (old incinerator Property) c\o MacDonalds Corp., AMF O'Hare Airport, PO Box 66207, Chicago, IL 60666
1115008	Danielle J. Skrabalak, 109 Adams Dr., Binghamton, NY, 13905

ATTACHMENT 2

ATTACHMENT 2: PROJECT DESCRIPTION

The Brownfield Cleanup Program (BCP) Volunteer, Binghamton Plaza, Inc., is highly motivated to revitalize Binghamton Plaza (BP) into a gateway attraction that will greet visitors to Binghamton, re-energize the North Binghamton neighborhood, complement the adjacent Cheri Lindsay Park and the planned Chenango Riverwalk, and create hundreds of permanent jobs. This revitalization plan is complicated by the presence of environmental contaminants that exist due to past activities conducted by previous owners and operators. Overcoming environmental challenges through the BCP will allow for successful completion of this critical project.

Current Situation

The current plaza occupies 26 acres in a mixed commercial / residential / recreation area on the east bank of the Chenango River. The subject Site is located within a New York State Department of Environmental Conservation (NYSDEC) Environmental Zone, or "En-zone". BP is located immediately south of Cheri Lindsay (CL) Park, one of Binghamton's biggest public parks which includes a public swimming pool and bath house, little league baseball fields, basketball courts, picnic areas, a skateboard park, and a "BMX" bike park. The Chenango River borders BP to the west, and the City of Binghamton is funded to construct a Riverwalk along the east bank of the River, which will connect downtown Binghamton to CL Park. BP is highly visible from Routes 81, 17, and 11, making it a "gateway" property. Properties to the east and south of BP are mixed commercial and residential (see Site Location Map, Attachment 1).

BP is currently "economically challenged", with a total retail occupancy rate of only 51% and a total office occupancy rate of only 12%. The major tenant, K-Mart, occupies 95,000 square feet (s.f.) of the approximately 300,000 s.f. plaza. K-Mart is currently on a month-to-month lease and will likely not continue occupancy if the revitalization plans described herein are not implemented.

Challenges to BP revitalization include access considerations related to entrance roadways and parking areas that were built on unconsolidated fill material. Settling has caused severe damage to these features and the underlying services (water, sanitary sewer, storm sewer, etc.). Environmental challenges need to be addressed before access issues can be resolved.

Proposed Future Use

Proposed reconstruction of BP as a premier public gathering, shopping and entertainment facility will complement the ongoing Chenango Riverwalk construction project being conducted by the City of Binghamton. BP will be reconfigured to allow pedestrian access to the Riverwalk, provide pedestrian plazas and river overlook stations, provide needed parking, and enhance the project with a new farmers' market arbor, artisan shops and entertainment facilities. Conceptual drawings of the reconstruction are attached.

One key planned addition to BP is a Family Entertainment Center (FEC) that would occupy approximately 100,000 s.f. of currently empty space. The FEC would be a huge

positive addition to the City, bringing customers, night life, identity and character to the area. The FEC will dovetail nicely with the Riverwalk and CL Park, making this area a "destination". It is estimated that the FEC would bring customers and shoppers from a 50-mile radius of BP, as a comparable facility does not exist in the region. The FEC is estimated to bring 100 to 150 new jobs to the area.

Revitalization of BP will also assure that the current major tenant, K-Mart, will remain with 150 to 200 jobs. Additional permanent jobs will be created as BP and surrounding sites become fully utilized. Temporary construction jobs will also be created by the project.

Environmental Challenges

Significant environmental challenges need to be overcome prior to site revitalization. Activities conducted by previous owners and occupants of the Site, plus activities on adjacent and nearby properties, have adversely affected site conditions. Site history is summarized below; a detailed description is provided in Attachment 3.

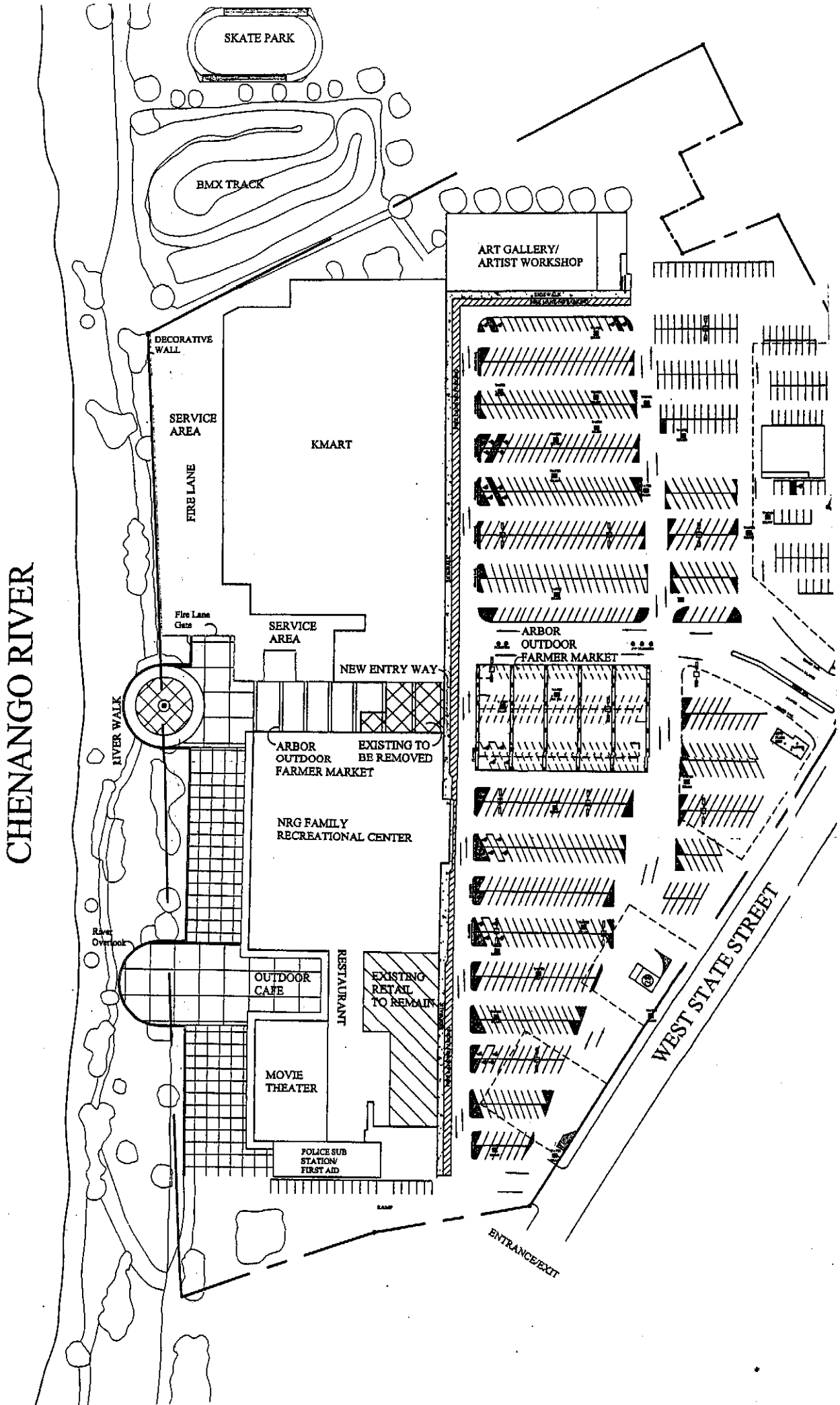
- City of Binghamton operated a landfill within the entire site boundary (and beyond) from the mid-1940s to the mid-1950s;
- An incinerator operated adjacent to the Site from the mid-1950s to early 1960s (incinerator ash was spread on the Site);
- The shopping plaza was constructed on the Site in 1963 over approximately 10 to 35 feet of fill material;
- A dry cleaner formerly operated on-site, resulting in the presence of chlorinated solvents in the subsurface;
- Operations on adjacent parcels (gas station, dry cleaner, car wash) may have adversely affected the Site.

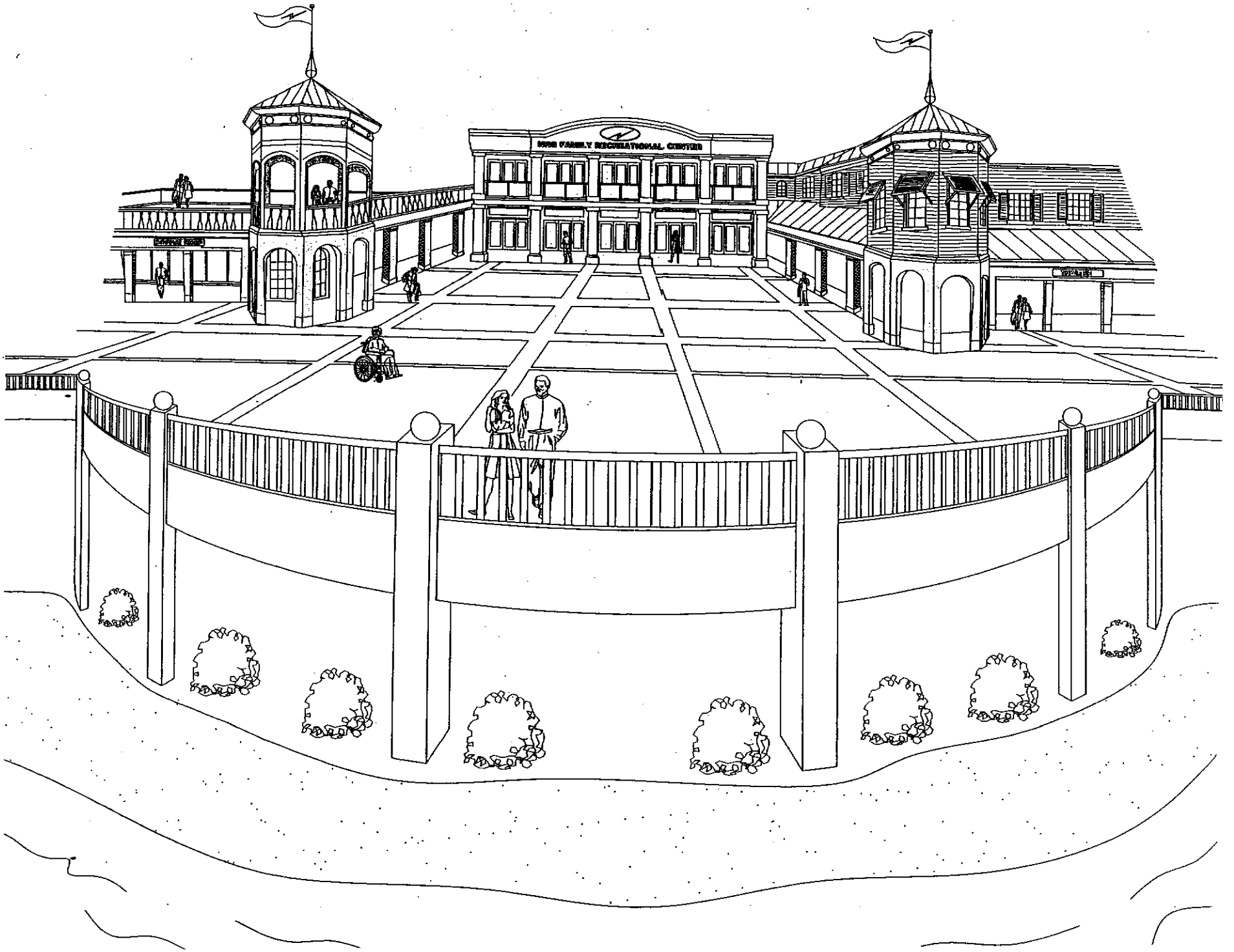
These activities have resulted in the presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), heavy metals and PCBs in unconsolidated material underlying the site. Limited site investigation activities indicate that groundwater is also affected. To address these concerns, Delta has developed a comprehensive Site Investigation Work Plan that, when implemented, will characterize site conditions and determine the nature and extent of affected media. The Site Investigation Work Plan is provided as Attachment 7 to the BCP Application.

Based on Site Investigation results, potential Remedial Alternatives will be evaluated and an appropriate remediation plan will be developed and implemented. Remediation will proceed in coordination with site redevelopment / reconstruction to allow for planned re-use in a timely manner.

Schedule

Site Investigation work will be initiated upon approval by NYSDEC of the BCP Application and associated Work Plan. Delta anticipates that Site Investigation work (including sample analyses, data validation and evaluation, and reporting) will take up to 10 weeks. Site remediation and redevelopment will start as soon as possible thereafter.


SKATE PARK
BMX TRACK
ART GALLERY/
ARTIST WORKSHOP
DECORATIVE
WALL
SERVICE
AREA
KMART
FIRE LANE
CHENANGO RIVER
Fire Lane
Gate
SERVICE
AREA
NEW ENTRY WAY
ARBOR
OUTDOOR
FARMER MARKET
RIVER WALK
ARBOR
OUTDOOR
FARMER MARKET
EXISTING TO
BE REMOVED
NRG FAMILY
RECREATIONAL CENTER
River
Overlook
OUTDOOR
CAFE
RESTAURANT
EXISTING
RETAIL
TO REMAIN
MOVIE
THEATER
POLICE SUB
STATION/
FIRST AID
WEST STATE STREET
ENTRANCE/EXIT


RIVER FAMILY RECREATIONAL CENTER

ATTACHMENT 3

SUMMARY OF SITE HISTORY

According to available information, the site was undeveloped in the early 1900s and was later used as a municipal "raw garbage" landfill by the City of Binghamton from 1946 until 1957. A municipal garbage incinerator was reportedly constructed by the City of Binghamton in 1957 south of the existing plaza and "behind" (west of) the existing McDonald's restaurant location. The ash from the incinerator was reportedly deposited at the site for the next several years until the early 1960s at which time the use of the incinerator was discontinued. Thicknesses of the waste deposited at the site have been estimated to be 10 to 18 feet in the north end of the site, and up to 35 feet in the south end of the site.

In 1963, construction of the existing plaza reportedly began. A review of available aerial photographs indicated that the plaza was present in 1967, with the plaza layout appearing in the 1967 photographs to be nearly the same as the existing plaza in 2005. The site has been developed as a commercial strip mall and plaza since its construction in 1963.

Typical tenants at the plaza have included occupants such as food establishments, service stores (salons, etc), large retail stores (Kmart) and various specialty retail stores (Shoe stores, Radio Shack, etc). Other tenants at the site have also included a dry cleaner (Martin Brothers Cleaners and Dyers), an auto parts store (National Auto Stores) and a paint store (Sherwin Williams). The use of solvent-based materials has been documented at the site in association with the former dry cleaner (Martin Brothers). Although no longer present at the site, Martin Brothers was documented as a RCRA small quantity generator (SQG) of hazardous waste in 1986. The paint store and the auto parts store referenced above were also documented as SQGs at the site.

Neighboring properties to the site have included several fuel dispensing sites (i.e., gas stations), a dry cleaner, a park, residential areas, various commercial properties, and food establishments. Historical investigations at neighboring properties reported the presence of "significant contamination" in the soil and groundwater at the McDonald's property to the south, and also beneath the Cheri Lindsey Park to the north). Reportedly, the entire Cheri Lindsey Park to the north is underlain by municipal landfill waste similar to the site.

According to available records at local Binghamton County Department of Health offices, an off-site well field situated north of the Cheri Lindsey Park (the "Olmstead Well Site") was nominated in conjunction with the plaza site as a "Hazardous Substance Disposal Site" in the early 1990s due to the detected presence of contaminants in samples collected from the well. The nomination was reportedly denied by NYSDEC, and there is no evidence that the Olmstead Well Site or the plaza site were included on the Hazardous Substance Site List. Further, a 19 May 2005 correspondence from the Broome County Department of Environmental Health Services indicated that the "capture zone" associated with drawdown during pumping operations of the Olmstead well does not approach the Binghamton Plaza site; therefore, any contamination associated with the Olmstead Well Site is likely not from the Binghamton Plaza site.

Binghamton Plaza
List of Current and Previous Owners

Current Owner:

Binghamton Plaza, Inc.
c/o Galesi Realty Corporation
30 Galesi Drive
Wayne, New Jersey 07470
Contact: Michael W. Tomasulo, Executive VP
Phone: 973-256-6600, Ext. 19
Fax: 973-256-3526
Email: miketomasu@aol.com

Previous Owner:

City of Binghamton
City Hall
Binghamton, New York 13901
Contact: Mr. Richard A. Bucci (current mayor)
Phone: 607-772-7001
Email: mayor@cityofbinghamton.com

Delta Environmental Consultants, Inc.

9 May 2005 *(updated 23 May 2005)*

RE: Due Diligence Findings
Binghamton Plaza Redevelopment Project
West State Street, Binghamton, New York

DUE DILIGENCE ACTIVITIES AND FINDINGS

1. Sent Freedom of Information Act (FOIA) letters to the following entities:

- United States Army Corp of Engineers (Buffalo office);
- NYSDEC (Region 7 and Kirkwood offices);
- United States Environmental Protection Agency
- New York State Department of Health
- Binghamton Fire Marshall and Code Enforcement Officer

The FOIA requests required each agency to search their files to determine if there are any records related to the subject Site. Appropriate files were found, and Delta to reviewed and copied those files as needed. File review findings are presented in subsequent sections of this summary.

2. Reviewed Environmental Data Resources, Inc. (EDR) database for environmental records related to the subject site and adjacent sites. **FINDINGS SUMMARY:** A Dry Cleaner was listed at the Target Property (Martin Brothers Cleaners & Dyers). Although this business is not currently at the site, it was a RCRA Small Quantity Generator (SQG) site in 1986. Reportedly, halogenated solvent and still bottoms from solvent recovery operations were wastes generated onsite. This site required additional evaluation (see *Limited Site Investigation* report). Two other RCRA SQGs are listed at the Target Address (National Auto Stores and Sherwin Williams). No information regarding violations is presented for these sites. There are no other mapped sites within 1/8 mile of site; however, there are Leaking Underground Storage Tank (LUST) sites, Spill sites, and RCRA SQG sites listed as being present outside the 1/8-mile radius. Due to their distance from the subject Site, it appears that these sites would not present a concern to the subject Site.

3. Purchased and reviewed Sanborn Fire Insurance Maps from EDR. **FINDINGS SUMMARY:** A 1970 Sanborn Map shows an incinerator site adjacent to the southern border of the subject Site, a filling station adjacent to the southern border of the subject Site, two filling stations southeast of the subject Site, and a car wash in the north-central portion of what is now the subject Site. The 1918, 1950 and 1952 maps show fair grounds or park on the subject property. Available Sanborn Maps do not indicate the presence of a landfill.

4. Reviewed aerial photographs of the site at the Cyber Security & Critical Infrastructure Coordination in Albany, NY. **FINDINGS SUMMARY:** Delta reviewed historic aerial photographs for the following years: 1967, 1968, 1973, 1974 and 1991. These photographs generally show little to no change to the plaza or surrounding property. The main portion of the plaza was present in the 1967 photograph along with the park to the north, commercial and residential land use to the east, commercial and/or light industrial land

use to the southeast and south, and the river to the west. There were no indications of any former landfill or incinerator. Delta was not allowed to obtain copies of these photographs.

5. Conducted a telephone interview with the Broome County Soil & Water Conservation District - Binghamton Service Center (1163 Upper Front Street Binghamton, NY 607-723-1384 x8). **FINDINGS SUMMARY:** Delta spoke with a Mr. Derek Green, who informed us that historic aerial photos for the following years are available at the Center: 1938, 1955, 1965, 1977, 1990 and 1995. Mr. Green agreed to mail Delta copies of the 1938 and 1955 photos for the site. Review of those photos did not provide any conclusive information.

6. Viewed historic topographic maps for the years 1904, 1942 and 1968 and also viewed hard copies for 1968 and 1991. **FINDINGS SUMMARY:** The 1904 topographic map shows that the site was undeveloped property as was the lot to the north. The remainder of the surrounding properties appeared to be developed. The 1942 topographic map shows no changes to the subject property with the exception of a small entrance road onto the undeveloped property from the south (i.e., off Chenango Street). The 1968 and 1991 topographic maps show the plaza on the site. There were no definitive indications of a landfill or incinerator on the property; however, the presence of the entrance road shown on the 1942 map is likely an indication of landfill operations. None of the maps indicated the extent of filling operations.

7. Discussed site history with representatives from the City of Binghamton Engineering Department. **FINDINGS SUMMARY:** According to the City Engineering Department, the City of Binghamton operated a solid waste landfill at the site up until the mid 1950s. The entire Binghamton Plaza is located within the footprint of the former landfill, as is part of the skateboard park to the north. The exact extent of the landfill is not known. Landfill waste is estimated to be up to 20 feet thick. The landfill was reportedly closed in the mid-1950s, when the City constructed and operated a solid waste incinerator to manage municipal waste. The incinerator was reportedly located behind what is now McDonalds, south of the Plaza. According to department personnel, ash from the incinerator was "probably spread on the ground". Incinerator use stopped in the mid-1960s, and the incinerator burned down in the mid-1970s. Reportedly, most of the records and drawings related to landfill and incinerator operations were destroyed in that fire.

8. Performed a one-day site visit and file review in Binghamton. The site visit included taking select site photographs and evaluating on-site features and adjacent properties that could impact the subject parcel (e.g. Kwik Fill gas station, Martin Dry Cleaner, former Howard Gas Station, Cheri Lindsey Park, etc.). **FINDINGS SUMMARY:** The site visit revealed that several adjacent / nearby properties exhibited features of concern. The file review is summarized as follows.

Broome County Department of Health (BCDOH). Met with Ron Brink, who presented all available BCDOH files. The files provided site history and some soil information as follows.

Archive report (William T. Ingram, P.E. December 1963) stated that the site was used by the City of Binghamton for a "raw garbage" landfill from 1946 to 1957 and that the waste is 10 to 18 feet deep in the north end and up to 35 feet deep in the south end. An incinerator was built adjacent to the landfill in 1957 and was used for only a few years, and the "ground was used for the deposition of incinerator residue". The landfill area was subsequently covered with soil and plaza construction began in 1963. The report expresses concern about the collection of landfill gas below buildings constructed over the landfill, and states that several fires broke out under buildings as a result of landfill gas being ignited.

A report by O'Brien & Gere stated that soil samples collected at Cheri Lindsey Park during construction of the skateboard park contained low concentrations of PCBs and several other analytes. Follow-up sampling was recommended but there was no report of additional sampling (**note** - Mr. Brink indicated that NYSDEC had the follow-up report).

A Hazardous Substance Waste Disposal Site Nomination Form was in the file. Review of this form revealed that the Olmstead Well Site and the Plaza Dump were nominated because there were contaminants detected in the Olmstead Well and BCDOH (the party that submitted the form) estimated that the former landfill could be a significant source of contamination. Subsequent sampling indicated that the well was suitable for use as a backup drinking water well. There is no evidence that the Olmstead Well site was include on the Hazardous Substance Site list.

[**NOTE**: As part of follow-up due diligence, Delta contacted Mr. Brink of Broome County Health Department on 18 May 2005 to further discuss the Olmstead Well. Mr. Brink stated that the well is currently used as a backup drinking water supply (most of Binghamton's water supply comes from the Susquehanna River). Sampling is conducted annually; TCE and 1,1 DCA have been detected at concentrations below 1 part per billion (ppb). A model provided by Mr. Brink indicates that the capture zone of the Olmstead Well does not approach Binghamton Plaza due to the proximity of the well to the Chenango River. Mr. Brink indicated that the well is over 50 feet deep. A confirmation letter sent to Delta by Mr. Brink is attached.]

Other reports and documents in the file supported information that was previously provided.

Broome County Library, County Historian's Office. Reports and documents provided by this office supported information that was previously provided.

City of Binghamton Parks and Recreation Department (John C. Whalen, Director). Mr. Whalen stated that landfill waste (primarily leather scrap from the old Endicott Johnson plant) was encountered when installing the baseball field backstop (north of the Plaza). He indicated that the entire park to the north of the Plaza is underlain by landfill waste.

NYSDEC Region 7 Kirkwood Office. Reviewed all NYSDEC files, which included site investigation reports for the McDonalds parcel to the south and the Cheri Lindsey Park to the north. Significant contamination was detected on both parcels in soil and groundwater. The only data available for the subject property was Corp of Engineers borings from the 1948 Flood Control project that indicated that the property is underlain by a thin (less than five feet) silt and clay layer, followed by a thick sand and gravel unit. Chris Warner of NYSDEC stated during the visit that there are no known spills associated with the Kwik Fill gas station (located east of the plaza across West State Street) and that there are "old tanks in the ground" at the closed station on the Howard property immediately adjacent to the subject Site. Other reports and documents in the file supported information that was previously provided.

US Soil Conservation Service, Broome County Office. Air photographs viewed in this office supported information that was previously provided.

Broome County Health Department
Environmental Health Services
Barbara J. Fiala, Broome County Executive . Claudia A. Edwards, MS, Director

225 Front Street . Binghamton, New York 13905
(607) 778-2887 . Fax (607) 778-3912 . Website: www.gobroomecounty.com

May 19, 2005

James Blasting
General Manager
Delta Environmental Consultants
104 Jamesville Road
Syracuse, NY 13214

RE: Binghamton Olmstead Well

Dear Mr. Blasting:

As you requested, I have researched information on the City of Binghamton Olmstead Well.

(1) Drilled 1965
(2) 12" casing diameter
(3) 51 foot well depth
(4) 36 foot casing depth
(4a) well screen likely from 36 to 51 feet bgs.
(5) 840' MSL altitude
(6) Water level-17 feet bgs.
(7) 708 gpm yield (max)
(8) 14' draw down @ max yield
(9) No boring log available
(10) Well production 4/05 (avg. daily) – 5511 g.
Well production 3/05 (avg. daily) – 5437 g.
Well production 2/05 (avg. daily) – 4012 g.
Well production 1/05 (avg. daily) – 3940 g.
Well production 12/04 (avg. daily) – 4834 g.
Well production 11/04 (avg. daily) – 2652 g.
Well production 10/04 (avg. daily) – 2812 g.
Well production 9/04 (avg. daily) – 4523 g.
Well production 8/04 (avg. daily) – 2820 g.
Well production 6/04 (avg. daily) – 3477 g.
Well production 5/04 (avg. daily) – 3986 g.
(11) Multiple TCE and 1,1 DCA hits from 2000-2005, all less than 1 ppb concentration.
(12) Binghamton gets most of its water from the Susquehanna River.

(13) A capture zone map is attached. You can see that most of the water produced at the Olmstead Well is induced recharge from the Chenango River.

I hope this helps. Feel free to give me a call at 607-778-2806 if there are any questions.

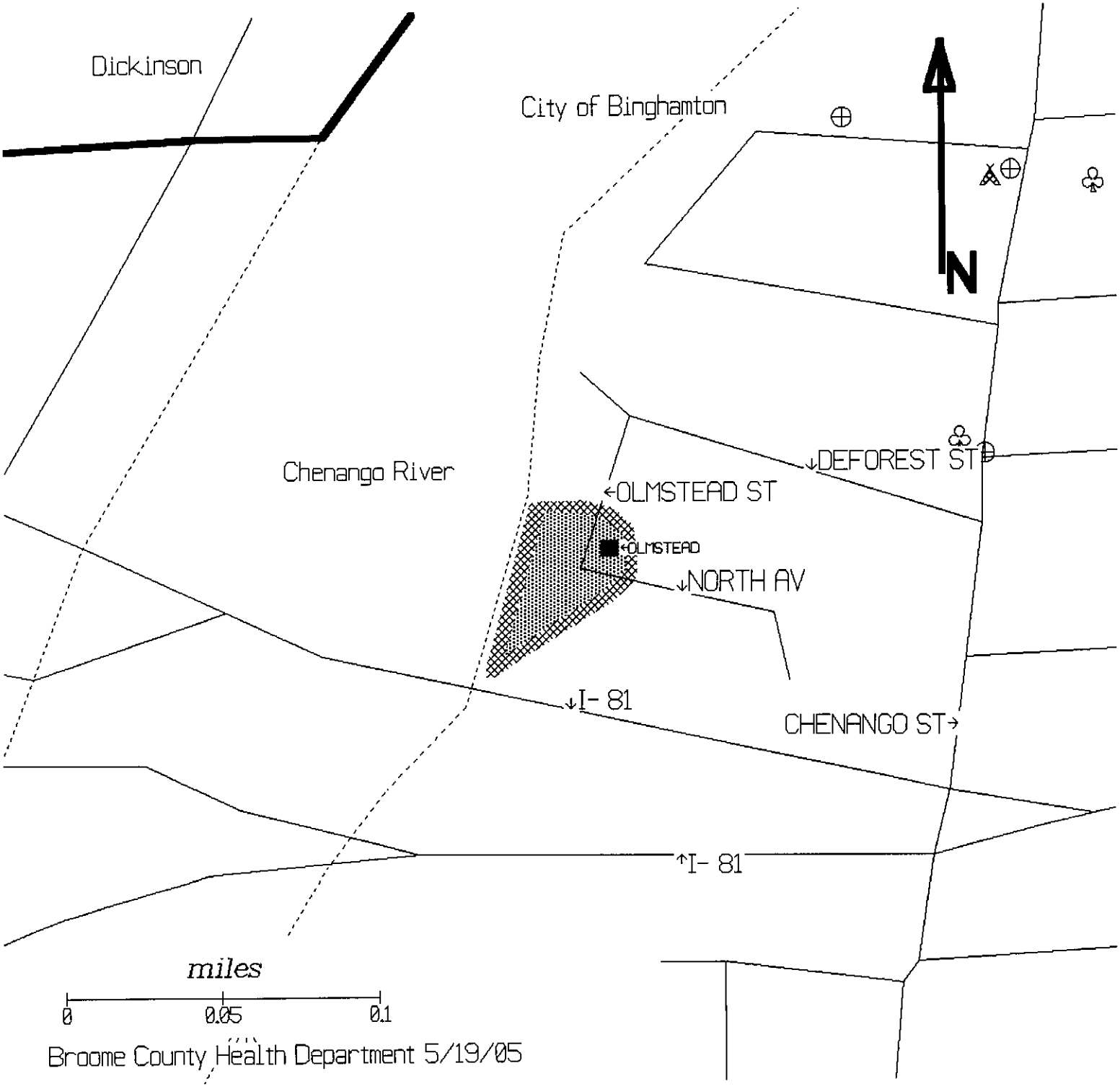
Sincerely,

Ronald S. Brink
Groundwater Management Specialist

RSB/rd

Enclosure

cc: File


Dickinson
City of Binghamton
N
Chenango River
DEFOREST ST
OLMSTEAD ST
OLMSTEAD
NORTH AV
I- 81
CHENANGO ST
I- 81
miles
0
0.05
0.1
Broome County Health Department 5/19/05

EDR™ Environmental Data Resources Inc

"Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Mark J Schumacher
InteGreyted Consultants, LLC
104 Jamesville Road
Syracuse, NY 13214

Customer Project: 0412017P
1032871ERK 315-445-0224

Order Date: 1/12/2005 **Completion Date:** 1/13/2005
Inquiry #: 1341121.2S
P.O. #: NA
Site Name: Binghamton Plaza
Address: 33 West State Street
City/State: Binghamton, NY 13901
Cross Streets:

Based on client-supplied information, fire insurance maps for the following years were identified

1918 - 1 - map
1950 - 1 - map
1952 - 1 - map
1970 - 1 - map

Total Maps: 4

Limited Permission to Photocopy

InteGreyted Consultants, LLC (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

D14 East 1/4-1/2 1354 ft. **PENSKE TRUCK LEASING CO LP**
42 FREDERICK ST
BINGHAMTON, NY 13902

RCRA-SQG 1000382751
FINDS NYD077303709
LTANKS
NY Spills

Site 2 of 2 in cluster D

Relative: Lower

Actual: 849 ft.

RCRAInfo:
Owner: PENSKE TRUCK LEASING CO LP
(215) 775-6380
EPA ID: NYD077303709

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

NY MANIFEST

Click this hyperlink while viewing on your computer to access additional NY MANIFEST detail in the EDR Site Report.

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

SPILLS:

Spill Number:	9209054	Region of Spill:	7
Spill Date:	11/04/1992 13:00	Reported to Dept:	11/04/92 14:30
ID:	Not reported		
Dt Call Received:	Not reported	Region Close Date	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Spill Cause:	Other	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Facility Contact:	Not reported	Facility Tele:	(607) 723-8393
Investigator:	CWA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported

Spiller: PENSKY TRUCK LEASING
Spiller Address: 42 FREDRICK ST
BINGHAMTON, NY 13902
DEC Remarks : Not reported
Remark: Not reported
Spill Class: Known release with minimal potential for fire or hazard. No DEC Response. No corrective action required.

Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No

PENSKE TRUCK LEASING CO LP (Continued) **1000382751**

Quantity Recovered: 0
Unknown Qty Recovered: False
Material: WASTE OIL
Class Type: Petroleum
Chem Abstract Service Number: WASTE OIL
Last Date: 09/27/1994
Num Times Material Entry In File: 9509
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: WASTE OIL
Class Type: Petroleum
Chem Abstract Service Number: WASTE OIL
Last Date: 09/27/1994
Num Times Material Entry In File: 9509
Spill Closed Dt: 02/16/93
Spill Notifier: Other
Cleanup Ceased: 12/16/92
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt/ /
Invstgn Complete:/ /
Spill Record Last Update: 03/22/93
Is Updated: False
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 11/05/92
Date Region Sent Summary to Central Office: / /
True Date : Not reported

PBS Number: Not reported
Cleanup Meets Std:True
Enforcement Date: / /
UST Involvement: False

LTANKS:
Spill Number: 9400504
Spill Date: 04/12/1994 10:00
ID: Not reported
Material Spilled 1 :Not reported
Region Close Dt : Not reported
Resource Affectd: Groundwater
Spill Cause: Tank Test Failure
Water Affected: Not reported
Facility Contact: Not reported
Investigator: CWA
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller: PENSKE TRUCKING
Spiller Address: 42 FREDRICK ST.
BINGHAMTON, NY
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Spill Notifier: DEC
Cleanup Ceased: / /
Last Inspection: 04/13/94

Region of Spill: 7
Reported to Dept: 04/12/94 10:22
Date Call Received:Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Commercial/Industrial
Facility Tele: (607) 723-8391
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported
Spiller Phone: Not reported

PBS Number: Not reported

PENSKE TRUCK LEASING CO LP (Continued) **1000382751**

Cleanup Meets Standard: False
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 06/16/94
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 04/13/94
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: DIESEL
Class Type: Petroleum
Chem Abstract Service Number: DIESEL
Last Date: 07/28/1994
Num Times Material Entry In File: 10625
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: DIESEL
Class Type: Petroleum
Chem Abstract Service Number: DIESEL
Last Date: 07/28/1994
Num Times Material Entry In File: 10625
DEC Remarks: Not reported
Spill Cause: TANK TEST FAILURE. SUSPECT LINE PROBLEM . TO EXCAVATE ISOLATE AND RETEST . 10K TANK.

15 SSW 1/4-1/2 1431 ft. **FISHER FUNERAL HOME**
CHENANGO ST
BINGHAMTON, NY

LTANKS **S102165569**
N/A

Relative: Higher

Actual: 861 ft.

LTANKS:

Spill Number:	9708972	Region of Spill:	7
Spill Date:	10/31/1997 12:00	Reported to Dept:	10/31/97 12:30
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	On Land		
Spill Cause:	Tank Failure		
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	GPS	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	FISHER FUNERAL HOME		
Spiller Address:	Not reported		
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	12/09/97		
Spill Notifier:	Responsible Party	PBS Number:	Not reported
Cleanup Ceased:	/ /		
Last Inspection:	/ /		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	/ /		
Enforcement Date:	/ /		
Investigation Complete:	/ /		
UST Involvement:	False		
Spill Record Last Update:	12/09/97		
Is Updated:	False		
Corrective Action Plan Submitted:	/ /		
True Date :	Not reported		
Date Spill Entered In Computer Data File:	10/31/97		
Date Region Sent Summary to Central Office:	/ /		

Tank Test:

PBS Number:	Not reported
Tank Number:	Not reported
Test Method:	Not reported
Capacity of Failed Tank:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	1
Quantity Spilled:	0
Units:	Gallons
Unknown Qty Spilled:	No
Quantity Recovered:	0
Unknown Qty Recovered:	False
Material:	WASTE OIL
Class Type:	Petroleum

FISHER FUNERAL HOME (Continued) **S102165569**

Chem Abstract Service Number:		WASTE OIL
Last Date:		09/27/1994
Num Times Material Entry In File:		9509
Material Class Type:	1	
Quantity Spilled:	0	
Units:	Gallons	
Unknown Qty Spilled:	No	
Quantity Recovered:	0	
Unknown Qty Recovered:	False	
Material:	WASTE OIL	
Class Type:	Petroleum	
Chem Abstract Service Number:		WASTE OIL
Last Date:		09/27/1994
Num Times Material Entry In File:		9509
DEC Remarks:	Not reported	
Spill Cause:	tanks found during excavation will dig up and remove	

16
ENE
1/4-1/2
1442 ft.

HERTZ PENSKE
42 FREDERICK ST.
BINGHAMTON, NY

LTANKS **S100158211**
N/A

Relative:
Lower

Actual:
849 ft.

LTANKS:

Spill Number:	8707867	Region of Spill:	7
Spill Date:	12/11/1987 12:35	Reported to Dept:	12/11/87 16:01
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	*Not reported*		
Resource Affectd:	Groundwater		
Spill Cause:	Tank Test Failure		
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Facility Contact:	Not reported	Facility Tele:	(607) 723-8391
Investigator:	GPA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	*Not reported*
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	HERTZ PENSKE TRUCK RENTAL		
Spiller Address:	*42 FREDERICK ST.*		
	BINGHAMTON, NY		
Spill Class:	Not reported		
Spill Closed Dt:	04/29/88		
Spill Notifier:	Tank Tester	PBS Number:	Not reported
Cleanup Ceased:	04/29/88		
Last Inspection:	/ /		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	/ /		
Enforcement Date:	/ /		
Investigation Complete:	/ /		
UST Involvement:	True		
Spill Record Last Update:	*05/27/88*		
Is Updated:	False		
Corrective Action Plan Submitted:	/ /		
True Date :	Not reported		
Date Spill Entered In Computer Data File:	01/05/88		
Date Region Sent Summary to Central Office:	/ /		

HERTZ PENSKE (Continued) **S100158211**

Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Not reported
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
Material Class Type: 1
Quantity Spilled: 0
Units: Not reported
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
DEC Remarks: Not reported
Spill Cause: 3,000 GAL. TANK SYSTEM FAILURE OF .436 GPH. RETESTED FAILED AGAIN. WILL REMOVE PRODUCT.

Spill Number: 9208616
Spill Date: 10/26/1992 12:00
ID: Not reported
Material Spilled 1 : Not reported
Region Close Dt : Not reported
Resource Affectd: On Land
Spill Cause: Tank Overfill
Water Affected: Not reported
Facility Contact: Not reported
Investigator: CWA
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller: PENSKE TRUCK RENTAL

Region of Spill: 7
Reported to Dept: 10/26/92 13:10
Date Call Received: Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Commercial/Industrial
Facility Tele: (607) 723-8391
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported

Spiller Phone: Not reported

HERTZ PENSKE (Continued) **S100158211**

Spiller Address: 42 FREDERICK ST.
BINGHAMTON, NY 13901
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 02/16/93
Spill Notifier: Other PBS Number: Not reported
Cleanup Ceased: 12/16/92
Last Inspection: / /
Cleanup Meets Standard: True
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Record Last Update: 03/22/93
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 10/27/92
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: DIESEL
Class Type: Petroleum
Chem Abstract Service Number: DIESEL
Last Date: 07/28/1994
Num Times Material Entry In File: 10625
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: DIESEL
Class Type: Petroleum
Chem Abstract Service Number: DIESEL
Last Date: 07/28/1994
Num Times Material Entry In File: 10625
DEC Remarks: Not reported
Spill Cause: 3-10K GALLON TANKS HAVING FILLS UPGRADED. CONTAMINATED SOIL FOUND AROUND DIESEL FILL. SOIL BEING STOCKPILED ON PLASTIC FOR DISPOSAL. 1K WASTE OIL TANK TO BE REMOVED AT A LATER DATE.

17 SSW 1/4-1/2 1581 ft. **RED BARREL- CHENANGO ST.**
CHENANGO / DOUBLEDAY ST.
BINGHAMTON, NY

LTANKS **S100153251**
N/A

Relative: Higher

Actual: 869 ft.

LTANKS:

Spill Number:	9107352	Region of Spill:	7
Spill Date:	10/08/1991 11:00	Reported to Dept:	10/08/91 11:00
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	On Land		
Spill Cause:	*Tank Failure*		
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Facility Contact:	Not reported	Facility Tele:	(607) 432-9274
Investigator:	CWA	SWIS:	03
Caller Name:	Not reported	*Caller Agency:*	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	BETTIOL FUEL SERVICE INC.		
Spiller Address:	RT 23 SOUTHSIDE ONEONTA, NY 13820		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	01/27/92		
Spill Notifier:	Responsible Party	PBS Number:	7-182788
Cleanup Ceased:	01/16/92		
Last Inspection:	10/08/91		
Cleanup Meets Standard:	*True*		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	/ /		
Enforcement Date:	/ /		
Investigation Complete:	/ /		
UST Involvement:	True		
Spill Record Last Update:	12/15/92		
Is Updated:	False		
Corrective Action Plan Submitted:	/ /		
True Date :	Not reported		
Date Spill Entered In Computer Data File:	10/09/91		
Date Region Sent Summary to Central Office:	/ /		

Tank Test:

PBS Number:	Not reported
Tank Number:	Not reported
Test Method:	Not reported
Capacity of Failed Tank:	0
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported
PBS Number:	Not reported
Tank Number:	Not reported
Test Method:	Not reported
Capacity of Failed Tank:	0
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported

Material:

Material Class Type:	1
Quantity Spilled:	0

RED BARREL- CHENANGO ST. (Continued) **S100153251**

Units:	Gallons	
Unknown Qty Spilled:	No	
Quantity Recovered:	0	
Unknown Qty Recovered:	False	
Material:	GASOLINE	
Class Type:	Petroleum	
Chem Abstract Service Number:		GASOLINE
Last Date:		09/29/1994
Num Times Material Entry In File:		21329
Material Class Type:	1	
Quantity Spilled:	0	
Units:	Gallons	
Unknown Qty Spilled:	No	
Quantity Recovered:	0	
Unknown Qty Recovered:	False	
Material:	GASOLINE	
Class Type:	Petroleum	
Chem Abstract Service Number:		GASOLINE
Last Date:		09/29/1994
Num Times Material Entry In File:		21329

DEC Remarks: 01/16/92: DYER REMOVED CONTAMINATED SOIL TO BROOME COUNTY LANDFILL. NO F URTHER ACTION.

Spill Cause: TANKS REMOVED . CONTAMINATED SOIL FOUND. EXCAVATED SOIL UNDER PUMP ISLAN D AND BELOW TANK. APPEARED TO BE CONTAINED IN SOIL. STOCKPILED FOR DISP OSAL.

18
WNW
1/4-1/2
1752 ft.

351 FRONT STREET
BINGHAMTON, NY

LTANKS **S104619135**
N/A

Relative:
Lower

Actual:
847 ft.

LTANKS:

Spill Number:	8601766	Region of Spill:	7
Spill Date:	06/13/1986 14:15	Reported to Dept:	06/13/86 15:30
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	Groundwater		
Spill Cause:	Tank Failure		
Water Affected:	Not reported	Spill Source:	Gas Station
Facility Contact:	Not reported	Facility Tele:	(607) 862-3850
Investigator:	GPA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	TOM GALLENGER		
Spiller Address:	Not reported		
Spill Class:	Not reported		
Spill Closed Dt:	08/11/87		
Spill Notifier:	Tank Tester	PBS Number:	Not reported
Cleanup Ceased:	08/11/87		
Last Inspection:	/ /		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	/ /		
Enforcement Date:	/ /		

(Continued) **S104619135**

Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 06/02/87
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 07/09/86
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Not reported
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
Material Class Type: 1
Quantity Spilled: 0
Units: Not reported
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
DEC Remarks: Not reported
Spill Cause: CONSIDERING UNCOVERING TANKS AND RETESTING TANKS

E19
East
1/4-1/2
1831 ft.

Relative:
Lower

Actual:
849 ft.

STOWE MANUFACTURING
BRANDYWINE HWY. FACILITY
BINGHAMTON, NY

LTANKS **S100781800**
N/A

Site 1 of 3 in cluster E

LTANKS:
Spill Number: 9307633
Spill Date: 09/22/1993 13:00
ID: Not reported
Material Spilled 1 :Not reported
Region Close Dt : Not reported
Resource Affectd: Groundwater
Spill Cause: Tank Failure
Water Affected: Not reported
Facility Contact: Not reported
Investigator: CWA
Caller Name: Not reported

Region of Spill: 7
Reported to Dept: 09/22/93 13:10
Date Call Received:Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Commercial/Industrial
Facility Tele: (607) 723-6411
SWIS: 03
Caller Agency: Not reported

STOWE MANUFACTURING (Continued) **S100781800**

Caller Phone: Not reported Caller Extension: Not reported
Notifier Name: Not reported Notifier Agency: Not reported
Notifier Phone: Not reported Notifier Extension: Not reported
PBS : Not reported
Spiller Contact: Not reported Spiller Phone: Not reported
Spiller: STOWE MANUFACTURING
Spiller Address: PO BOX 490
BINGHAMTON, NY 13902
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 02/27/96
Spill Notifier: Responsible Party PBS Number: Not reported
Cleanup Ceased: / /
Last Inspection: / /
Cleanup Meets Standard: False
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 02/28/96
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 09/29/93
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
DEC Remarks: 09/23/93: SOIL EXCAVATED AND STOCKPILED. REQUESTED MONITORING WELLS TO B

STOWE MANUFACTURING (Continued) **S100781600**

E INSTALLED. SENT STOWE STIP. 2-27-96 SENT LETTER TO STOW STATING THAT SPILL WOULD BE CONSIDERED INACTIVE.
Spill Cause: 1K FUEL OIL TANK AND 550 GALLON GAS TANK REMOVED. NO CONTAMINATION NOTED IN FUEL OIL TANK EXCAVATION. GASOLINE TANK EXCAVATION HAD CONTAMINATED S OIL TO GROUNDWATER.

20
West
1/4-1/2
1840 ft.

HESS FRONT ST.
341 FRONT ST.
BINGHAMTON, NY

LTANKS **S100964943**
N/A

Relative:
Lower

Actual:
843 ft.

LTANKS:

Spill Number:	8907329	Region of Spill:	7
Spill Date:	10/24/1989 11:00	Reported to Dept:	10/24/89 11:30
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	On Land		
Spill Cause:	Tank Failure		
Water Affected:	Not reported	Spill Source:	Gas Station
Facility Contact:	Not reported	Facility Tele:	(210) 750-6000
Investigator:	CWA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	AMERADA HESS CORP.		
Spiller Address:	1 HESS PLAZA WOODBRIDGE, NJ 07095		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	12/01/89		
Spill Notifier:	Other	PBS Number:	Not reported
Cleanup Ceased:	11/28/89		
Last Inspection:	10/25/89		

Cleanup Meets Standard:	True
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Spill Record Last Update:	12/01/89
Is Updated:	False
Corrective Action Plan Submitted:	/ /
True Date :	Not reported
Date Spill Entered In Computer Data File:	10/25/89
Date Region Sent Summary to Central Office:	/ /

Tank Test:

PBS Number:	Not reported
Tank Number:	Not reported
Test Method:	Not reported
Capacity of Failed Tank:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	1
Quantity Spilled:	0

HESS FRONT ST. (Continued) **S100964943**

Units:	Gallons	
Unknown Qty Spilled:	No	
Quantity Recovered:	0	
Unknown Qty Recovered:	False	
Material:	GASOLINE	
Class Type:	Petroleum	
Chem Abstract Service Number:		GASOLINE
Last Date:		09/29/1994
Num Times Material Entry In File:		21329
Material Class Type:	1	
Quantity Spilled:	0	
Units:	Gallons	
Unknown Qty Spilled:	No	
Quantity Recovered:	0	
Unknown Qty Recovered:	False	
Material:	GASOLINE	
Class Type:	Petroleum	
Chem Abstract Service Number:		GASOLINE
Last Date:		09/29/1994
Num Times Material Entry In File:		21329

DEC Remarks: 10/25/89: CONTAMINATED SOIL REMOVED DURING TANK RMOVALS AND STOCKPILED O N PLASTIC. 10/25/89: CONTAMINATED SOIL REMOVED DURING TANK RMOVALS AND S TOCKPILED ON PLASTIC. CONTAMINATED SOIL REMOVED TO LANDFILL ON 11-28 BY GARY DYER. ENVIRONMENTALLY COMPLETE.

Spill Cause: CONTAMINATED SOIL NOTICED DURING REMOVAL OF UNDERGROUND TANKS.

---

21 West 1/4-1/2 1879 ft. **ARCO 341 FRONT ST.** **LTANKS S100127855**
341 FRONT ST. **N/A**
BINGHAMTON, NY

Relative: Lower

Actual: 838 ft.

LTANKS:

Spill Number:	8900400	Region of Spill:	7
Spill Date:	*04/12/1989 10:23*	Reported to Dept:	04/12/89 11:18
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	Groundwater		
Spill Cause:	Tank Test Failure		
Water Affected:	Not reported	Spill Source:	Gas Station
Facility Contact:	*Not reported*	Facility Tele:	Not reported
Investigator:	GPA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	*Notifier Extension:*	Not reported
PBS :	Not reported		
Spiller Contact:	*Not reported*	Spiller Phone:	Not reported
Spiller:	ARCO 60092		
Spiller Address:	SOUTHEASTERN, PA		
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	10/30/89		
Spill Notifier:	Responsible Party	PBS Number:	-
Cleanup Ceased:	10/23/89		
Last Inspection:	04/12/89		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	/ /		

ARCO 341 FRONT ST. (Continued) **S100127855**

Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 07/22/96
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 06/02/89
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: 7-460338
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: *Not reported*
PBS Number: 7-408581
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
DEC Remarks: Not reported
Spill Cause: *LINE LEAK ON 8K UNLEADED.*

E22
East
1/4-1/2
1904 ft.

Relative:
Lower

Actual:
849 ft.

73 FREDERICK ST-REG9DTSHP
BINGHAMTON (C), NY

LTANKS **S104619109**
N/A

Site 2 of 3 in cluster E

LTANKS:
Spill Number: 8600015
Spill Date: 03/31/1986 04:30
ID: Not reported
Material Spilled 1 :Not reported

Region of Spill: 7
Reported to Dept: 04/01/86 11:35
Date Call Received:Not reported
Amount Spilled 1 : Not reported

(Continued) **S104619109**

Region Close Dt : Not reported
Resource Affectd: In Sewer
Spill Cause: Tank Failure
Water Affected: CHENANGO RIVER
Facility Contact: Not reported
Investigator: GPA
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller: NYS DOT
Spiller Address: 73 FREDERICK ST.
BINGHAMTON, NY
Spill Class: Not reported
Spill Closed Dt: 08/10/87
Spill Notifier: Responsible Party
Cleanup Ceased: 08/10/87
Last Inspection: / /
Cleanup Meets Standard: True
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Record Last Update: 06/02/87
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 04/15/86
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material:
Material Class Type: Not reported
Quantity Spilled: Not reported
Units: Not reported
Unknown Qty Spilled: Not reported
Quantity Recovered: Not reported
Unknown Qty Recovered: Not reported
Material: Not reported
Class Type: Not reported
Chem Abstract Service Number: Not reported
Last Date: Not reported
Num Times Material Entry In File: Not reported
DEC Remarks: 10/03/95: This is additional information about material spilled from th e translation of the old spill file: NAPTHA
Spill Cause: CLEANED TANK PARTS-PUT SPEEDI DRY

Spill Source: Other Non Commercial/Industrial
Facility Tele: Not reported
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported
Spiller Phone: Not reported
PBS Number: Not reported

E23 **FREDERICK ST** **LTANKS** **S101508816**
East **DOT GARAGE** **N/A**
1/4-1/2 **BINGHAMTON, NY**
1904 ft.

Site 3 of 3 in cluster E

Relative:
Lower

Actual:
849 ft.

LTANKS:

Spill Number:	9500688	Region of Spill:	7
Spill Date:	04/14/1995 12:00	Reported to Dept:	04/17/95 12:00
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	Groundwater		
Spill Cause:	Tank Failure		
Water Affected:	Not reported	Spill Source:	Other Non Commercial/Industrial
Facility Contact:	'	Facility Tele:	Not reported
Investigator:	CWA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	NYS DOT		
Spiller Address:	Not reported		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	04/05/96		
Spill Notifier:	Affected Persons	PBS Number:	7-389730
Cleanup Ceased:	/ /		
Last Inspection:	/ /		
Cleanup Meets Standard:	False		
Recommended Penalty:	Penalty Recommended		
Spiller Cleanup Date:	/ /		
Enforcement Date:	/ /		
Investigation Complete:	/ /		
UST Involvement:	True		
Spill Record Last Update:	10/28/96		
Is Updated:	False		
Corrective Action Plan Submitted:	/ /		
True Date :	Not reported		
Date Spill Entered In Computer Data File:	04/18/95		
Date Region Sent Summary to Central Office:	10/28/96		

Tank Test:

PBS Number:	Not reported
Tank Number:	Not reported
Test Method:	Not reported
Capacity of Failed Tank:	0
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported
PBS Number:	Not reported
Tank Number:	Not reported
Test Method:	Not reported
Capacity of Failed Tank:	0
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported

Material:

Material Class Type:	1
Quantity Spilled:	0

FREDERICK ST (Continued) **S101508816**

Units:	Pounds	
Unknown Qty Spilled:	No	
Quantity Recovered:	0	
Unknown Qty Recovered:	False	
Material:	GASOLINE	
Class Type:	Petroleum	
Chem Abstract Service Number:		GASOLINE
Last Date:		09/29/1994
Num Times Material Entry In File:		21329
Material Class Type:	1	
Quantity Spilled:	0	
Units:	Pounds	
Unknown Qty Spilled:	No	
Quantity Recovered:	0	
Unknown Qty Recovered:	False	
Material:	GASOLINE	
Class Type:	Petroleum	
Chem Abstract Service Number:		GASOLINE
Last Date:		09/29/1994
Num Times Material Entry In File:		21329
DEC Remarks:	Not reported	
Spill Cause:	Not reported	

24
East
1/4-1/2
1999 ft.

DOT - FREDERICK ST.
73 FREDERICK ST.
BINGHAMTON, NY

LTANKS **S100129452**
N/A

Relative:
Lower

Actual:
849 ft.

LTANKS:

Spill Number:	8710801	Region of Spill:	7
Spill Date:	03/25/1988 18:30	Reported to Dept:	03/25/88 18:42
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	Groundwater		
Spill Cause:	Tank Test Failure		
Water Affected:	Not reported	Spill Source:	Other Non Commercial/Industrial
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	GPA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	NYS DOT		
Spiller Address:	73 FREDERICK ST. BINGHAMTON, NY		
Spill Class:	Not reported		
Spill Closed Dt:	06/10/88		
Spill Notifier:	Tank Tester	PBS Number:	Not reported
Cleanup Ceased:	06/10/88		
Last Inspection:	/ /		
Cleanup Meets Standard:	True		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	/ /		
Enforcement Date:	/ /		
Investigation Complete:	/ /		
UST Involvement:	True		

DOT - FREDERICK ST. (Continued) **S100129452**

Spill Record Last Update: / /
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 04/01/88
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: 7-103209
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
PBS Number: 7-121975
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Not reported
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
Material Class Type: 1
Quantity Spilled: 0
Units: Not reported
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
DEC Remarks: Not reported
Spill Cause: .10880 GPH LEAK RATE ON 2,000 GAL. TANK

Spill Number: 9505820
Spill Date: 08/11/1995 10:15
ID: Not reported
Material Spilled 1 : Not reported
Region Close Dt : Not reported
Resource Affectd: On Land
Spill Cause: Tank Test Failure
Water Affected: Not reported
Facility Contact: Not reported
Investigator: CWA
Caller Name: Not reported
Caller Phone: Not reported

Region of Spill: 7
Reported to Dept: 08/11/95 10:20
Date Call Received: Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Non Commercial/Industrial
Facility Tele: Not reported
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported

DOT - FREDERICK ST. (Continued) **S100129452**

Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller: NYSDOT
Spiller Address: 73 FREDERICK ST.
BINGHAMTON, NY 13901
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: 10/06/95
Spill Notifier: Tank Tester
PBS Number: Not reported
Cleanup Ceased: 10/06/95
Last Inspection: / /
Cleanup Meets Standard: True
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Record Last Update: 10/06/95
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 08/16/95
Date Region Sent Summary to Central Office: 10/06/95
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #4 FUEL OIL
Class Type: Petroleum
Chem Abstract Service Number: #4 FUEL OIL
Last Date: 12/05/1994
Num Times Material Entry In File: 1751
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #4 FUEL OIL

DOT - FREDERICK ST. (Continued) **S100129452**

Class Type: Petroleum
Chem Abstract Service Number: #4 FUEL OIL
Last Date: 12/05/1994
Num Times Material Entry In File: 1751
DEC Remarks: 08/15/95: DOT TO HAVE TANK REMOVED. CONTAMINATED SOIL AND PRODUCT FOUND IN BOTTOM OF EXCAVATION. 08/17/95: DOT DOES NOT HAVE THE FUNDS AVAILABLE TO HAVE THE TANK REMOVED. SPOKE TO MARTY DEPAOLO FROM OGS ALBANY. HE SAI D TO HIRE A CONTRACTOR TO DO THEWORK. HIRED GARY DYER TO DO WORK.
Spill Cause: TANK TOP EXCAVATED. TANK PUMPED OUT.

F25 **KEYSTONE CC** **LTANKS** **S100127881**
ESE **7 WALTER AVE** **N/A**
1/4-1/2 **BINGHAMTON, NY**
2232 ft.

Site 1 of 2 in cluster F

Relative:
Lower

Actual:
849 ft.

LTANKS:

Spill Number: 0308133
Tank Number: Not reported
Test Method: Not reported
Spill Date: 10/31/03
ID: 31896
Material Spilled 1: #2 FUEL OIL
Region Close Dt: / /
Resource Affectd: GROUNDWATER
Spill Cause: TANK FAILURE
Water Affected: Not reported

Region of Spill: 7
Tank Size : Not reported
Leak Rate: Not reported
Reported to Dept: / /
Date Call Received: 10/31/03
Amount Spilled 1 : Unknown Gal.

Spill Source: OTHER COMM/INDUSTRIAL

Spill Number: 8900945
Spill Date: 04/25/1989 17:00
ID: Not reported
Material Spilled 1: Not reported
Region Close Dt: Not reported
Resource Affectd: On Land
Spill Cause: Tank Test Failure
Water Affected: Not reported
Facility Contact: Not reported
Investigator: CWA
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller: KEYSTONE COCO-COLA
Spiller Address: 300 OAK STREET
PITTSTON, PA 18640
Spill Class: Not reported
Spill Closed Dt: 12/12/89
Spill Notifier: Responsible Party
Cleanup Ceased: 12/12/89
Last Inspection: 12/12/89
Cleanup Meets Standard: True
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 04/26/90

Region of Spill: 7
Reported to Dept: 05/01/89 14:02
Date Call Received: Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Commercial/Industrial
Facility Tele: (717) 655-2874
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported

Spiller Phone: Not reported

PBS Number: 7-008230

KEYSTONE CC (Continued) **S100127881**

Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 05/10/89
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: 7-433101
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
PBS Number: 7-298557
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
DEC Remarks: 06/30/89: ALTHOUGH TANK PASSED PETRO-TITE TEST IT WILL BE REMOVED ANYWAY . KEYSTONE COCA-COLA TO CONTACT D.E.C. ON REMOVAL TIME. 12/12/89: ENVIRO NMENTAL OIL ON SITE REMOVING TANK. NO CONTAMINATION NOTICED IN EXCAVATIO N. ENVIRONMENTALLY COMPLETE.
Spill Cause: FAILED PETRI-TITE TEST

Spill Number: 9107104
Spill Date: 10/01/1991 14:45
ID: Not reported
Material Spilled 1 : Not reported
Region Close Dt : Not reported
Resource Affectd: On Land
Spill Cause: Tank Overfill
Water Affected: Not reported
Facility Contact: Not reported
Investigator: JOA

Region of Spill: 7
Reported to Dept: 10/01/91 14:45
Date Call Received: Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Commercial/Industrial
Facility Tele: (607) 723-5311
SWIS: 03

KEYSTONE CC (Continued) **S100127881**

Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	COCA COLA CO.		
Spiller Address:	7 WALTERS AVE. BINGHAMTON, NY		
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	04/24/92		
Spill Notifier:	Responsible Party	PBS Number:	7-008230
Cleanup Ceased:	04/24/92		
Last Inspection:	10/02/91		

Cleanup Meets Standard: True
Recommended Penalty: *Penalty Not Recommended*
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 04/24/92
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 10/03/91
Date Region Sent Summary to Central Office: / /
Tank Test:
- PBS Number: 7-186546
- Tank Number: Not reported
- Test Method: Not reported
- Capacity of Failed Tank: 0
- Leak Rate Failed Tank: 0.00
- Gross Leak Rate: Not reported
- PBS Number: Not reported
- Tank Number: Not reported
- Test Method: Not reported
- Capacity of Failed Tank: 0
- Leak Rate Failed Tank: 0.00
- *Gross Leak Rate:* *Not reported*

Material:
- Material Class Type: 1
- Quantity Spilled: 0
- Units: Gallons
- Unknown Qty Spilled: No
- Quantity Recovered: 0
- Unknown Qty Recovered: False
- Material: GASOLINE
- *Class Type:* Petroleum
- Chem Abstract Service Number: GASOLINE
- Last Date: 09/29/1994
- Num Times Material Entry In File: 21329
- Material Class Type: 1
- Quantity Spilled: 0
- Units: Gallons
- Unknown Qty Spilled: No
- Quantity Recovered: 0

KEYSTONE CC (Continued) **S100127881**

Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
DEC Remarks: Not reported
Spill Cause: 6K GAS TANK REMOVED. CONTAMINATED SOIL FOUND AROUND FILL PIPE.20-30 YDS. SOIL UNDER TANK CONTAINED NO PETROLEUM ODORS.

---

26 **LTANKS** **S104619425**
East **67 WHITNEY AV** **N/A**
1/4-1/2 **BINGHAMTON, NY**
2264 ft.

Relative: **Lower**

Actual: **850 ft.**

LTANKS:
Spill Number: 9706811
Spill Date: 09/08/1997 13:00
ID: Not reported
Material Spilled 1 : Not reported
Region Close Dt : Not reported
Resource Affectd: On Land
Spill Cause: Tank Failure
Water Affected: Not reported
Facility Contact: Not reported
Investigator: JOS
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: ART TOTENZIANO
Spiller: ART TOTENZIANO - OWNER
Spiller Address: Not reported
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/20/97
Spill Notifier: Other
Cleanup Ceased: / /
Last Inspection: 09/23/97
Cleanup Meets Standard: True
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Record Last Update: 01/21/98
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 09/08/97
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Region of Spill: 7
Reported to Dept: 09/08/97 14:05
Date Call Received: Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Commercial/Industrial
Facility Tele: Not reported
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported

Spiller Phone: (607) 722-9540

PBS Number: Not reported

(Continued) **S104619425**

Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #2 FUEL OIL
Class Type: Petroleum
Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994
Num Times Material Entry In File: 24464
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #2 FUEL OIL
Class Type: Petroleum
Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994
Num Times Material Entry In File: 24464
DEC Remarks: TANKS REMOVED. SOIL SAMPLES TAKEN. LOW LEVEL CONTAMINATION FOUND. NFA. J EO.
Spill Cause: SEVERAL UST S UNCOVERED AT THE LOT - REQ A RESPONSE TO THE SITE

27
ESE
1/4-1/2
2288 ft.

ROADWAY EXPRESS INC
57 WHITNEY AVE
BINGHAMTON, NY 13901

RCRA-SQG **1000193267**
FINDS **NYD095567947**
UST
LTANKS

Relative:
Lower

Actual:
850 ft.

RCRAInfo:
Owner: ROADWAY EXPRESS
(212) 555-1212
EPA ID: NYD095567947
Contact: Not reported
Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system

LTANKS:
Spill Number: 9107772
Spill Date: 10/21/1991 10:30
ID: Not reported
Material Spilled 1 :Not reported
Region Close Dt : Not reported
Resource Affectd: Groundwater
Spill Cause: Tank Failure
Water Affected: Not reported
Facility Contact: Not reported
Investigator: CWS
Caller Name: Not reported

Region of Spill: 7
Reported to Dept: 10/21/91 10:30
Date Call Received:Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Commercial/Industrial
Facility Tele: (607) 723-7326
SWIS: 03
Caller Agency: Not reported

ROADWAY EXPRESS INC (Continued) 1000193267

Caller Phone: Not reported Caller Extension: Not reported
Notifier Name: Not reported Notifier Agency: Not reported
Notifier Phone: Not reported Notifier Extension: Not reported
PBS : Not reported
Spiller Contact: Not reported Spiller Phone: Not reported
Spiller: ROADWAY EXPRESSINC.
Spiller Address: 57 WHITNEY AVE.
BINGHAMTON, NY 13901
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 04/03/96
Spill Notifier: DEC PBS Number: 7-033677
Cleanup Ceased: / /
Last Inspection: / /
Cleanup Meets Standard: False
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 04/03/96
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 10/22/91
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: DIESEL
Class Type: Petroleum
Chem Abstract Service Number: DIESEL
Last Date: 07/28/1994
Num Times Material Entry In File: 10625
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False

ROADWAY EXPRESS INC (Continued) **1000193267**

Material: DIESEL
Class Type: Petroleum
Chem Abstract Service Number: DIESEL
Last Date: 07/28/1994
Num Times Material Entry In File: 10625
DEC Remarks: 10/22/91: SPOKE WITH REP. FROM ROADWAY EXPRESS. MONITORING WELLS TO BE I NSTALLED.
Spill Cause: 2 - 4K GALLON DIESEL FUEL TANKS REMOVED. CONTAMINATED SOIL NOTICED TO GR OUNDWATER DEPTH. SOIL STOCKPILED FOR DISPOSAL.

Spill Number: 9107856
Spill Date: 10/22/1991 16:00
ID: Not reported
Material Spilled 1 : Not reported
Region Close Dt : Not reported
Resource Affectd: Groundwater
Spill Cause: Tank Overfill
Water Affected: Not reported
Facility Contact: Not reported
Investigator: CWA
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller: ROADWAY EXPRESS INC.
Spiller Address: 57 WHITNEY AVE.
BINGHAMTON, NY 13901
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Spill Notifier: DEC
Cleanup Ceased: / /
Last Inspection: 10/23/91
Cleanup Meets Standard: False
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Record Last Update: 05/29/92
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 10/25/91
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0

Region of Spill: 7
Reported to Dept: 10/22/91 16:00
Date Call Received: Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Commercial/Industrial
Facility Tele: Not reported
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported

Spiller Phone: Not reported

PBS Number: Not reported

ROADWAY EXPRESS INC (Continued) **1000193267**

Units:	Gallons	
Unknown Qty Spilled:	No	
Quantity Recovered:	0	
Unknown Qty Recovered:	False	
Material:	WASTE OIL	
Class Type:	Petroleum	
Chem Abstract Service Number:		WASTE OIL
Last Date:		09/27/1994
Num Times Material Entry In File:		9509
Material Class Type:	1	
Quantity Spilled:	0	
Units:	Gallons	
Unknown Qty Spilled:	No	
Quantity Recovered:	0	
Unknown Qty Recovered:	False	
Material:	WASTE OIL	
Class Type:	Petroleum	
Chem Abstract Service Number:		WASTE OIL
Last Date:		09/27/1994
Num Times Material Entry In File:		9509

DEC Remarks: 10/23/91: MONITORING WELL INSTALLED IN EXCAVTION. SOIL REMOVED AND STOCK PILED. SAMPLES TO BE TAKEN TO ID PRODUCT. RECOVERY SYSTEM TO BE SET UP.

Spill Cause: FUEL OIL TANK BEING REMOVED. TANK ALSO CONTAINED WASTE OIL. TANK FULL OF HOLES. FREE PRODUCT ON WATER IN EXCAVATION.

PBS UST:

PBS Number:	7-033677	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	0302
Operator:	P N HUBBLE JR/TERMINAL MANAGER (607) 723-7326		
Emergency Contact:	P N HUBBLE JR/TERMINAL MANAGER (607) 723-7326		
Total Tanks:	0		
Owner:	ROADWAY EXPRESS INC 1077 GORGE BLVD AKRON, OH 44309 (216) 384-1717		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	Not reported		
Mailing Address:	ROADWAY EXPRESS INC ATTN: REGINA GODWIN *1077 GORGE BLVD* P.O. BOX 471 AKRON, OH 44309 (216) 384-1717		
Tank Status:	Closed - Removed		
Capacity (gals):	2000		
Tank Location:	UNDERGROUND		
Tank Id:	008	Install Date:	05/01/1967
Tank Type:	Steel/carbon steel	Product Stored:	OTHER
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	1	Pipe Type:	STEEL/IRON
Tank External:	Not reported		
Missing Data for Tank:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE/NONE		
Leak Detection:	NONE/NONE		

ROADWAY EXPRESS INC (Continued) **1000193267**

Overfill Prot:	Product Level Gauge	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	10/01/1991	Test Method:	Not reported
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	0	Renewal Date:	Not reported
Tank Screen:	0	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	Minor data missing
Certification Flag:	False	Certification Date:	06/20/1991
Old PBS Number:	Not reported	Expiration Date:	10/17/1991
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	Not reported		
Town or City:	BINGHAMTON (C)		
Town or City Code:	02		
County Code:	03		
Region:	7		

PBS Number:	7-033677	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	0302
Operator:	P N HUBBLE JR/TERMINAL MANAGER (607) 723-7326		
Emergency Contact:	P N HUBBLE JR/TERMINAL MANAGER (607) 723-7326		
Total Tanks:	0		
Owner:	ROADWAY EXPRESS INC 1077 GORGE BLVD AKRON, OH 44309 (216) 384-1717		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	Not reported		
Mailing Address:	ROADWAY EXPRESS INC ATTN: REGINA GODWIN 1077 GORGE BLVD P.O. BOX 471 AKRON, OH 44309 (216) 384-1717		
Tank Status:	Closed - Removed		
Capacity (gals):	4000		
Tank Location:	UNDERGROUND		
Tank Id:	001	Install Date:	05/01/1967
Tank Type:	Steel/carbon steel	Product Stored:	DIESEL
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	1	Pipe Type:	STEEL/IRON
Tank External:	Not reported		
Missing Data for Tank:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Product Level Gauge	Dispenser:	Suction
Date Tested:	04/01/1987	Next Test Date:	Not reported
Date Closed:	10/01/1991	Test Method:	UNKNOWN
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing

ROADWAY EXPRESS INC (Continued) **1000193267**

FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	0	Renewal Date:	Not reported
Tank Screen:	0	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	Minor data missing
Certification Flag:	False	Certification Date:	06/20/1991
Old PBS Number:	Not reported	Expiration Date:	10/17/1991
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	Not reported		
Town or City:	BINGHAMTON (C)		
Town or City Code:	02		
County Code:	03		
Region:	7		
PBS Number:	7-033677	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	0302
Operator:	P N HUBBLE JR/TERMINAL MANAGER (607) 723-7326		
Emergency Contact:	P N HUBBLE JR/TERMINAL MANAGER (607) 723-7326		
Total Tanks:	0		
Owner:	ROADWAY EXPRESS INC 1077 GORGE BLVD AKRON, OH 44309 (216) 384-1717		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	Not reported		
Mailing Address:	ROADWAY EXPRESS INC ATTN: REGINA GODWIN 1077 GORGE BLVD P.O. BOX 471 AKRON, OH 44309 (216) 384-1717		
Tank Status:	Closed - Removed		
Capacity (gals):	4000		
Tank Location:	UNDERGROUND		
Tank Id:	002	Install Date:	05/01/1967
Tank Type:	Steel/carbon steel	Product Stored:	DIESEL
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	1	Pipe Type:	STEEL/IRON
Tank External:	Not reported		
Missing Data for Tank:	Minor Data Missing		
Pipe External:	*Not reported*		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Product Level Gauge	Dispenser:	Suction
Date Tested:	04/01/1987	*Next Test Date:*	*Not reported*
Date Closed:	10/01/1991	Test Method:	UNKNOWN
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	0	Renewal Date:	Not reported
Tank Screen:	0	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	Minor data missing
Certification Flag:	False	Certification Date:	06/20/1991

ROADWAY EXPRESS INC (Continued) **1000193267**

Old PBS Number:	Not reported	Expiration Date:	10/17/1991
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	Not reported		
Town or City:	BINGHAMTON (C)		
Town or City Code:	02		
County Code:	03		
Region:	7		
PBS Number:	7-033677	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	0302
Operator:	P N HUBBLE JR/TERMINAL MANAGER (607) 723-7326		
Emergency Contact:	P N HUBBLE JR/TERMINAL MANAGER *(607) 723-7326*		
Total Tanks:	0		
Owner:	ROADWAY EXPRESS INC 1077 GORGE BLVD AKRON, OH 44309 (216) 384-1717		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	Not reported		
Mailing Address:	ROADWAY EXPRESS INC ATTN: REGINA GODWIN 1077 GORGE BLVD P.O. BOX 471 AKRON, OH 44309 (216) 384-1717		
Tank Status:	Closed - Removed		
Capacity (gals):	1000		
Tank Location:	UNDERGROUND		
Tank Id:	003	Install Date:	05/01/1967
Tank Type:	Steel/carbon steel	Product Stored:	OTHER
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	1	Pipe Type:	*STEEL/IRON*
Tank External:	Not reported		
Missing Data for Tank:	Minor Data Missing		
Pipe External:	*Not reported*		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Product Level Gauge	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	10/01/1991	Test Method:	Not reported
Deleted:	False	Updated:	True
Dead Letter:	False	*Owner Screen:*	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	0	Renewal Date:	Not reported
Tank Screen:	0	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	Minor data missing
Certification Flag:	False	Certification Date:	06/20/1991
Old PBS Number:	Not reported	Expiration Date:	10/17/1991
Inspected Date:	Not reported	*Inspector:*	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	Not reported		

ROADWAY EXPRESS INC (Continued) **1000193267**

Town or City:	BINGHAMTON (C)		
Town or City Code:	02		
County Code:	03		
Region:	7		
PBS Number:	7-033677	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	0302
Operator:	P N HUBBLE JR/TERMINAL MANAGER (607) 723-7326		
Emergency Contact:	P N HUBBLE JR/TERMINAL MANAGER (607) 723-7326		
Total Tanks:	0		
Owner:	ROADWAY EXPRESS INC 1077 GORGE BLVD AKRON, OH 44309 (216) 384-1717		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	Not reported		
Mailing Address:	ROADWAY EXPRESS INC ATTN: REGINA GODWIN 1077 GORGE BLVD P.O. BOX 471 AKRON, OH 44309 (216) 384-1717		
Tank Status:	Closed Prior to 04/91 (Either Closed In-Place or Removed)		
Capacity (gals):	3000		
Tank Location:	UNDERGROUND		
Tank Id:	004	Install Date:	05/01/1967
Tank Type:	Steel/carbon steel	Product Stored:	DIESEL
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	1	Pipe Type:	STEEL/IRON
Tank External:	Not reported		
Missing Data for Tank:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Product Level Gauge	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	Not reported	Test Method:	Not reported
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	0	Renewal Date:	Not reported
Tank Screen:	0	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	Minor data missing
Certification Flag:	False	Certification Date:	06/20/1991
Old PBS Number:	Not reported	Expiration Date:	10/17/1991
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	Not reported		
Town or City:	BINGHAMTON (C)		
Town or City Code:	02		
County Code:	03		
Region:	7		

ROADWAY EXPRESS INC (Continued) **1000193267**

This is the most recent NY PBS data for this site.

Click this hyperlink while viewing on your computer to access
3 additional NY PBS record(s) in the EDR Site Report.

F28 **U.S NAVAL RESERVE CENTER** **LTANKS** **S101341584**
ESE **51 WHITNEY AVE.** **N/A**
1/4-1/2 **BINGHAMTON, NY**
2310 ft.

Site 2 of 2 in cluster F

Relative:
Lower

Actual:
850 ft.

LTANKS:

Spill Number:	9411825	Region of Spill:	7
Spill Date:	10/25/1994 09:15	Reported to Dept:	10/25/94 09:15
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	Groundwater		
Spill Cause:	Tank Failure		
Water Affected:	Not reported	Spill Source:	Other Non Commercial/Industrial
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	JOA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	U.S. NAVY		
Spiller Address:	Not reported		

Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

Spill Closed Dt:	12/11/00		
Spill Notifier:	Other	PBS Number:	Not reported
Cleanup Ceased:	/ /		
Last Inspection:	08/18/99		

Cleanup Meets Standard: False
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Record Last Update: 12/18/00
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 12/07/94
Date Region Sent Summary to Central Office: / /

Tank Test:

PBS Number:	Not reported
Tank Number:	Not reported
Test Method:	Not reported
Capacity of Failed Tank:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	1
Quantity Spilled:	0
Units:	Gallons

U.S NAVAL RESERVE CENTER (Continued) **S101341584**

Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: Petroleum
Chem Abstract Service Number: UNKNOWN PETROLEUM
Last Date: 09/29/1994
Num Times Material Entry In File: 16414
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: Petroleum
Chem Abstract Service Number: UNKNOWN PETROLEUM
Last Date: 09/29/1994
Num Times Material Entry In File: 16414
DEC Remarks: 12/95- CITY OF BINGHAMTON TO PERFROM G.W. INVESTIGATION. 12/11/00 - U.S. NAVY DEWATERED SITE AND EXCAVATED CONTAMINATED SOIL. CONTAMINATED SOIL A ND WATER AT PROPERTY LINE. UNABLE TO CONTINUE DUE TO STRUCTURES. SPILL I NACTIVE. JEO.
Spill Cause: 1-8K AND 2-5K TANKS BEING REMOVED. SKIM OF PRODUCT FOUND ON IN EXCAVATIO N.

---

29 East 1/4-1/2 2415 ft. **AGWAY FEED STORE** **LTANKS S104276512**
44-55 MONTGOMERY ST. **N/A**
BINGHAMTON, NY

Relative: Lower

Actual: 850 ft.

LTANKS:
Spill Number: 9402592
Spill Date: 05/23/1994 09:50
ID: Not reported
Material Spilled 1 : Not reported
Region Close Dt : Not reported
Resource Affectd: Groundwater
Spill Cause: Tank Test Failure
Water Affected: Not reported
Facility Contact: Not reported
Investigator: GPA
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller: AGWAY FEED INC.
Spiller Address: SYRACUSE, NY
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 06/06/94
Spill Notifier: Responsible Party
Cleanup Ceased: 06/06/94
Last Inspection: 06/03/94
Cleanup Meets Standard: True
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /

Region of Spill: 7
Reported to Dept: 05/23/94 10:00
Date Call Received: Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Commercial/Industrial
Facility Tele: Not reported
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported

Spiller Phone: Not reported

PBS Number: Not reported

AGWAY FEED STORE (Continued) **S104276512**

Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 11/07/94
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 06/06/94
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: DIESEL
Class Type: Petroleum
Chem Abstract Service Number: DIESEL
Last Date: 07/28/1994
Num Times Material Entry In File: 10625
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: DIESEL
Class Type: Petroleum
Chem Abstract Service Number: DIESEL
Last Date: 07/28/1994
Num Times Material Entry In File: 10625
DEC Remarks: / / : TANK HAD PROBLEM WITH RETURN LINE. REPAIRED AND PLACED BACK IN S ERVICE.
Spill Cause: 10K FAILED TANK TEST. LINE IS SUSPECT. TO EXCAVATE, ISOLATE AND RETEST.

G30 **PARLOR CITY PAPER BOX CO., INC.** **UST U003313613**
SW **2 ELDREDGE ST.** **LTANKS N/A**
1/4-1/2 ***BINGHAMTON, NY 13902***
2474 ft.

Site 1 of 2 in cluster G

Relative:
Lower

Actual:
839 ft.

LTANKS:

Spill Number:	9208903	Region of Spill:	7
Spill Date:	10/30/1992 10:30	Reported to Dept:	10/30/92 10:30
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	On Land		
Spill Cause:	Tank Failure		
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Facility Contact:	Not reported	Facility Tele:	(607) 772-0600
Investigator:	CWA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	PARLOR CITY PAPER BOX		
Spiller Address:	2 ELDREDGE ST. BINGHAMTON, NY 13902		
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	12/05/96		
Spill Notifier:	DEC	PBS Number:	Not reported
Cleanup Ceased:	12/05/96		
Last Inspection:	/ /		
Cleanup Meets Standard:	False		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	/ /		
Enforcement Date:	/ /		
Investigation Complete:	/ /		
UST Involvement:	False		
Spill Record Last Update:	12/05/96		
Is Updated:	False		
Corrective Action Plan Submitted:	/ /		
True Date :	Not reported		
Date Spill Entered In Computer Data File:	11/03/92		
Date Region Sent Summary to Central Office:	/ /		

Tank Test:

PBS Number:	Not reported
Tank Number:	Not reported
Test Method:	Not reported
Capacity of Failed Tank:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	1
Quantity Spilled:	0
Units:	Gallons
Unknown Qty Spilled:	No
Quantity Recovered:	0
Unknown Qty Recovered:	False
Material:	#2 FUEL OIL

PARLOR CITY PAPER BOX CO., INC. (Continued) U003313613

Class Type: Petroleum
Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994
Num Times Material Entry In File: 24464
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #2 FUEL OIL
Class Type: Petroleum
Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994
Num Times Material Entry In File: 24464
DEC Remarks: / / : COULD NOT REMOVED ANY SOIL DUE TO TANK LOCATION. SOIL SAMPLES TA KEN FROM EXCAVATION. 8021 8270 TO BE RUN.
Spill Cause: 8K GALLON FUEL OIL TANK REMOVED. TANK LOCATED IN SIDEWALK ALONG ELDREDGE ST. GAS MAIN AND STREET ON ONE SIDE AND BUILDING FOUNDATION ON OTHER SID E. TANK CONTAINED HOLES.

PBS UST:

PBS Number:	7-428256	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	0302
Operator:	PARLOR CITY PAPER BOX CO. INC. (607) 772-0600		
Emergency Contact:	DAVID L. CULVER (607) 693-2823		
Total Tanks:	0		
Owner:	PARLOR CITY PAPER BOX CO., INC. 2 ELDREDGE ST., P.O. BOX 756 BINGHAMTON, NY 13902 (607) 772-0600		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	Not reported		
Mailing Address:	PARLOR CITY PAPER BOX CO., INC. 2 ELDREDGE ST., P.O. BOX 756 BINGHAMTON, NY 13902 (607) 772-0600		
Tank Status:	Closed - Removed		
Capacity (gals):	1000		
Tank Location:	UNDERGROUND		
Tank Id:	002	Install Date:	Not reported
Tank Type:	Steel/carbon steel	Product Stored:	LEADED GASOLINE
Tank Internal:	NONE	Pipe Internal:	NONE
Pipe Location:	None	Pipe Type:	NONE
Tank External:	NONE/NONE		
Missing Data for Tank:	No Missing Data		
Pipe External:	NONE/NONE		
Second Containment:	NONE/NONE		
Leak Detection:	NONE/NONE		
Overfill Prot:	None	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	10/01/1992	Test Method:	Not reported
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		

PARLOR CITY PAPER BOX CO., INC. (Continued) U003313613

Total Capacity:	0	Renewal Date:	Not reported
Tank Screen:	0	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	12/14/1987
Old PBS Number:	Not reported	Expiration Date:	12/14/1992
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	MANUFACTURING		
Town or City:	BINGHAMTON (C)		
Town or City Code:	02		
County Code:	03		
Region:	7		

PBS Number:	7-428256	CBS Number:	Not reported
SPDES Number:	Not reported	SWIS ID:	0302
Operator:	PARLOR CITY PAPER BOX CO. INC. (607) 772-0600		
Emergency Contact:	DAVID L. CULVER (607) 693-2823		
Total Tanks:	0		
Owner:	PARLOR CITY PAPER BOX CO., INC. 2 ELDREDGE ST., P.O. BOX 756 BINGHAMTON, NY 13902 (607) 772-0600		
Owner Type:	Corporate/Commercial		
Owner Mark:	First Owner		
Owner Subtype:	Not reported		
Mailing Address:	PARLOR CITY PAPER BOX CO., INC. 2 ELDREDGE ST., P.O. BOX 756 BINGHAMTON, NY 13902 (607) 772-0600		
Tank Status:	Closed - Removed		
Capacity (gals):	8000		
Tank Location:	UNDERGROUND		
Tank Id:	001	Install Date:	12/01/1954
Tank Type:	Steel/carbon steel	Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	Not reported
Tank External:	Not reported		
Missing Data for Tank:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	2	Dispenser:	Suction
Date Tested:	12/01/1987	Next Test Date:	Not reported
Date Closed:	10/01/1992	Test Method:	AINLAY
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	0	Renewal Date:	Not reported
Tank Screen:	0	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	12/14/1987
Old PBS Number:	Not reported	Expiration Date:	12/14/1992
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		

PARLOR CITY PAPER BOX CO., INC. (Continued) U003313613

Lat/long: Not reported
Facility Type: MANUFACTURING
Town or City: BINGHAMTON (C)
Town or City Code: 02
County Code: 03
Region: 7

H31 **HEATING PLANT** **LTANKS S104787200**
ESE **425 ROBINSON ST** **NY Spills N/A**
1/4-1/2 **BINGHAMTON, NY**
2477 ft.

Site 1 of 3 in cluster H

Relative:
Lower

Actual:
850 ft.

SPILLS:
Spill Number: 0004462
Spill Date: 07/13/2000 16:56
ID: Not reported
Dt Call Received: Not reported
Material Spilled 1 :Not reported
Spill Cause: Unknown
Water Affected: Not reported
Facility Contact: DAVE ASWAD
Investigator: JOS
Caller Name: *Not reported*
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: DAVE ASWAD
Spiller: BIGHAMTON PSYCH CENTER
Spiller Address: 425 ROBINSON ST
BINGHAMTON, NY 13901
DEC Remarks : 7/13/2000 - SPILL WENT INTO SANITARY DRAIN. ABSORBENTS PLACED IN MANWAY TO PICK UP PRODUCT. SPILL AREA IN HEATING PLANT CONTAINED AND CLEANED *UP. CITY OF BING. NOTIFIED OF RELEASE.* 7/14/2000 - VISITED SITE. SMALL AMOUNT REMAINS IN MANWAY. CLEANUP CO
. TO BE HIRED TO COMPLETE CLEANUP. AMOUNT SPILLED BELIEVED TO BE ABOUT 10 GALLONS. NFA. JEO.
Remark: cleanup in progress prduct is a fuel additive of some type.
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

Region of Spill: 7
Reported to Dept: 07/13/00 17:56
Region Close Date Not reported
Amount Spilled 1 : Not reported
Resource Affected: In Sewer
Spill Source: Other Non Commercial/Industrial
Facility Tele: (607) 773-4597
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported
Spiller Phone: (607) 773-4597

Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: 1
Quantity Spilled: 10
Units: Gallons
Unknown Qty Spilled: 10
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: FUEL ADDITIVE
Class Type: Petroleum
Chem Abstract Service Number: FUEL ADDITIVE
Last Date: Not reported

HEATING PLANT (Continued) **S104787200**

Num Times Material Entry In File: 8
Material Class Type: 1
Quantity Spilled: 10
Units: Gallons
Unknown Qty Spilled: 10
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: FUEL ADDITIVE
Class Type: *Petroleum*
Chem Abstract Service Number: FUEL ADDITIVE
Last Date: Not reported
Num Times Material Entry In File: 8
Spill Closed Dt: 07/14/00
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Last Inspection: *07/14/00*
Cleanup Meets Std:True
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt/ /
Enforcement Date: / /
Invstgn Complete:/ /
UST Involvement: False
Spill Record Last Update: 07/14/00
Is Updated: False
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: *07/13/00*
Date Region Sent Summary to Central Office: / /
True Date : Not reported

LTANKS:
Spill Number: 0208285
Region of Spill: 7
Tank Number: Not reported
Tank Size : Not reported
Test Method: Not reported
Leak Rate: Not reported
Spill Date: 11/11/02
Reported to Dept: / /
ID: 14863
Date Call Received:11/11/02
Material Spilled 1 #2 FUEL OIL
Amount Spilled 1 : Unknown Gal.
Region Close Dt : 10/02/03
Resource Affectd: GROUNDWATER
Spill Cause: TANK FAILURE
Water Affected: *Not reported*
Spill Source: OTHER NON COMM/INSTITUTIONAL

H32 **BINGHAMTON PHYCH. CENTER** **SWF/LF** **S102166296**
ESE **425 ROBINSON STREET** ***NY Spills*** **N/A**
1/4-1/2 **BINGHAMTON, NY**
2477 ft.

Site 2 of 3 in cluster H

Relative: Lower

Actual: 850 ft.

LF:
Secondary Addr : Not reported
Region Code : 7
Phone Number : Not reported
Owner Name : Not reported
Owner Type : Not reported
Owner Address : Not reported
Not reported
Not reported
Owner Email : Not reported
Owner Phone : Not reported
Contact Name : Not reported
Contact Address : Not reported
Not reported
Not reported
Contact Email : *Not reported*
Contact Phone : Not reported
Activity Desc : Landfill - construction and demolition debris
Activity Number : Not reported

BINGHAMTON PHYCH. CENTER (Continued) **S102166296**

Active : No
North Coordinate : Not reported
Regulatory Status Not reported
Waste Type : Not reported
Authorization # : None
Expiration Date : Not reported

Accuracy Code : Not reported
East Coordinate : Not reported

Authorization Date : Not reported

SPILLS:
Spill Number: 8808913
Spill Date: 02/15/1989 09:30
ID: Not reported
Dt Call Received: Not reported
Material Spilled 1 : Not reported
Spill Cause: Human Error
Water Affected: Not reported
Facility Contact: Not reported
Investigator: BS
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller: BINGHAMTON PSYCH CENTER
Spiller Address: 425 ROBINSON ST.
BINGHAMTON, NY 13901
DEC Remarks : 02/15/89: CLEANED UP WITH SAW DUST AND SAND.
Remark: APPROX. 1 GAL. LEAKED FROM HOSE. CLEANED UP WITH SAW DUST AND SAND.
Spill Class: Not reported

Region of Spill: 7
Reported to Dept: 02/15/89 09:50

Region Close Date Not reported
Amount Spilled 1 : Not reported
Resource Affected: On Land
Spill Source: Tank Truck
Facility Tele: (607) 773-4565
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported

Spiller Phone: Not reported

Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: 1
Quantity Spilled: 1
Units: Gallons
Unknown Qty Spilled: Yes
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #2 FUEL OIL
Class Type: Petroleum
Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994
Num Times Material Entry In File: 24464
Material Class Type: 1
Quantity Spilled: 1
Units: Gallons
Unknown Qty Spilled: Yes
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #2 FUEL OIL
Class Type: Petroleum
Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994

BINGHAMTON PHYCH. CENTER (Continued) **S102166296**

Num Times Material Entry In File: 24464
Spill Closed Dt: 02/15/89
Spill Notifier: Responsible Party
Cleanup Ceased: 02/15/89
Last Inspection: 02/15/89
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Invstgn Complete: / /
Spill Record Last Update: / /
Is Updated: False
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 03/09/89
Date Region Sent Summary to Central Office: / /
True Date : Not reported

PBS Number: Not reported
Cleanup Meets Std: True
Enforcement Date: / /
UST Involvement: False

H33
ESE
1/4-1/2
2477 ft.

Relative:
Lower

Actual:
850 ft.

BINGHAMTON PSYCHIATRIC CENTER **RCRA-SQG 1000234702**
425 ROBINSON ST **FINDS NYD010781854**
BINGHAMTON, NY 13901 **LTANKS**
NY Spills

Site 3 of 3 in cluster H

RCRAInfo:
Owner: Not reported
EPA ID: NYD010781854
Contact: Not reported
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

NY MANIFEST

Click this hyperlink while viewing on your computer to access additional NY MANIFEST detail in the EDR Site Report.

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Aerometric Information Retrieval System/AIRS Facility Subsystem
National Emissions Inventory
Resource Conservation and Recovery Act Information system

SPILLS:
Spill Number: 0365032
Tank Number: Not reported
Test Method: Not reported
Spill Date: 07/11/03
ID: 26214
Date Call Received: 07/11/03
Region Close Date : 07/11/03
Material Spilled 1 : DIESEL
Spill Cause: ON LAND
Water Affected: Not reported

Region of Spill: 7
Tank Size : Not reported
Leak Rate: Not reported
Reported to Dept: / /
Amount Spilled 1 : 5 Gal.
Resource Affected: ON LAND
Spill Source: COMMERCIAL VEHICLE

LTANKS:
Spill Number: 0265056
Tank Number: Not reported
Test Method: Not reported
Spill Date: 10/21/02
ID: 13861
Material Spilled 1 : #2 FUEL OIL

Region of Spill: 7
Tank Size : Not reported
Leak Rate: Not reported
Reported to Dept: / /
Date Call Received: 10/21/02
Amount Spilled 1 : Unknown Gal.

BINGHAMTON PSYCHIATRIC CENTER (Continued) **1000234702**

Region Close Dt : 11/01/02
Resource Affectd: GROUNDWATER
Spill Cause: TANK FAILURE
Water Affected: Not reported
Spill Source: OTHER NON COMM/INSTITUTIONAL

Spill Number: 9800677
Spill Date: 04/16/1998 07:45
ID: Not reported
Material Spilled 1 : Not reported
Region Close Dt : Not reported
Resource Affectd: On Land
Spill Cause: Tank Failure
Water Affected: Not reported
Facility Contact: Not reported
Investigator: GPS
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller: Not reported
Spiller Address: Not reported
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 03/06/01
Spill Notifier: Responsible Party
Cleanup Ceased: / /
Last Inspection: / /
Cleanup Meets Standard: True
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 03/06/01
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 04/16/98
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum

Region of Spill: 7
Reported to Dept: 04/16/98 07:50
Date Call Received: Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Non Commercial/Industrial
Facility Tele: Not reported
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported

Spiller Phone: Not reported

PBS Number: Not reported

BINGHAMTON PSYCHIATRIC CENTER (Continued) **1000234702**

Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
DEC Remarks: Not reported
Spill Cause: TANK 21D. TANK ABANDONED 30 YEAS AGO. CONTAMINATION FOUND. SOIL TO BE REMOVED.

Spill Number: 9800678
Spill Date: 04/15/1998 10:00
ID: Not reported
Material Spilled 1 : Not reported
Region Close Dt : Not reported
Resource Affectd: On Land
Spill Cause: Tank Failure
Water Affected: Not reported
Facility Contact: Not reported
Investigator: CWS
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller: Not reported
Spiller Address: Not reported
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 05/21/99
Spill Notifier: Responsible Party
Cleanup Ceased: / /
Last Inspection: / /
Cleanup Meets Standard: False
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Spill Record Last Update: 05/21/99
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 04/16/98
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported

Region of Spill: 7
Reported to Dept: 04/15/98 10:15
Date Call Received: Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Non Commercial/Industrial
Facility Tele: Not reported
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported

Spiller Phone: Not reported

PBS Number: Not reported

BINGHAMTON PSYCHIATRIC CENTER (Continued) **1000234702**

Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: GASOLINE
Class Type: Petroleum
Chem Abstract Service Number: GASOLINE
Last Date: 09/29/1994
Num Times Material Entry In File: 21329
DEC Remarks: Not reported
Spill Cause: TANK 54A B. REMOVING TANK. CONTAMINATION FOUND. SOIL DUG UP. SAMPLE TAKEN.

Spill Number: 8904361
Spill Date: 08/01/1989 16:35
ID: Not reported
Material Spilled 1 : Not reported
Region Close Dt : Not reported
Resource Affectd: Groundwater
Spill Cause: Tank Test Failure
Water Affected: Not reported
Facility Contact: Not reported
Investigator: JOA
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
PBS : Not reported
Spiller Contact: Not reported
Spiller: BINGHAMTON PYSCH. CENTER
Spiller Address: 425 ROBINSON ST.
BINGHAMTON, NY
Spill Class: Not reported
Spill Closed Dt: 08/10/89
Spill Notifier: Tank Tester
Cleanup Ceased: 08/09/89
Last Inspection: 08/09/89
Cleanup Meets Standard: True
Recommended Penalty: Penalty Not Recommended

Region of Spill: 7
Reported to Dept: 08/02/89 08:48
Date Call Received: Not reported
Amount Spilled 1 : Not reported

Spill Source: Other Non Commercial/Industrial
Facility Tele: Not reported
SWIS: 03
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported

Spiller Phone: Not reported

PBS Number: 7-041912

BINGHAMTON PSYCHIATRIC CENTER (Continued) **1000234702**

Spiller Cleanup Date: / /
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Spill Record Last Update: 08/10/89
Is Updated: False
Corrective Action Plan Submitted: / /
True Date : Not reported
Date Spill Entered In Computer Data File: 08/03/89
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: *0.00*
Gross Leak Rate: Not reported
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: 0
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #2 FUEL OIL
Class Type: Petroleum
Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994
Num Times Material Entry In File: 24464
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: *0*
Unknown Qty Recovered: False
Material: #2 FUEL OIL
Class Type: Petroleum
Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994
Num Times Material Entry In File: 24464
DEC Remarks: *08/09/89: SYSTEMS RETEST PASSED ON 8/4/89. TESTER WAS JOE MC DONALD CENT* RAL TESTING) RATE -.027 GPH.
Spill Cause: 2K SYSTEM FAILED PETRO-TITE TEST AT -.059 GPH. PLAN TO EXCAVATE ,ISOLATE AND RETEST.

G34 SW 1/4-1/2 2514 ft.

NYSEG - NOYES ISLAND
ELDREDGE / WATER STS.
BINGHAMTON, NY

LTANKS S100781992
N/A

Site 2 of 2 in cluster G

Relative: Lower

Actual: 851 ft.

LTANKS:

Spill Number:	9309092	Region of Spill:	7
Spill Date:	04/20/1993 12:00	Reported to Dept:	05/27/93 12:00
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	Groundwater		
Spill Cause:	Tank Failure		
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Facility Contact:	Not reported	Facility Tele:	(607) 762-7498
Investigator:	CWA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	NYSEG		
Spiller Address:	PO BOX 5226 CORP. DR. BINGHAMTON, NY 13902		
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	/ /		
Spill Notifier:	Other	PBS Number:	Not reported
Cleanup Ceased:	/ /		
Last Inspection:	/ /		

Cleanup Meets Standard:	False
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Date:	/ /
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Spill Record Last Update:	01/11/95
Is Updated:	False
Corrective Action Plan Submitted:	/ /
True Date :	Not reported
Date Spill Entered In Computer Data File:	10/28/93
Date Region Sent Summary to Central Office:	/ /

Tank Test:

PBS Number:	Not reported
Tank Number:	Not reported
Test Method:	Not reported
Capacity of Failed Tank:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	1
Quantity Spilled:	0
Units:	Gallons
Unknown Qty Spilled:	No
Quantity Recovered:	0
Unknown Qty Recovered:	False
Material:	GASOLINE

NYSEG - NOYES ISLAND (Continued) **S100781992**

Class Type:	Petroleum	
Chem Abstract Service Number:		GASOLINE
Last Date:		09/29/1994
Num Times Material Entry In File:		21329
Material Class Type:	1	
Quantity Spilled:	0	
Units:	Gallons	
Unknown Qty Spilled:	No	
Quantity Recovered:	0	
Unknown Qty Recovered:	False	
Material:	GASOLINE	
Class Type:	Petroleum	
Chem Abstract Service Number:		GASOLINE
Last Date:		09/29/1994
Num Times Material Entry In File:		21329

DEC Remarks: 10/27/93: NYSEG TO INVESTIGATE.
Spill Cause: GROUNDWATER CONTAMINATION FOUND DURING SITE INVESTIGATION.

---

35 **PIERSON OFFICE SUPPLY** **LTANKS** **S102399655**
SW **350 WATER ST** **N/A**
1/4-1/2 **BINGHAMTON, NY**
2620 ft.

Relative: **Lower**

Actual: **837 ft.**

LTANKS:

Spill Number:	9606758	Region of Spill:	7
Spill Date:	08/19/1996 10:30	Reported to Dept:	08/24/96 08:30
ID:	Not reported	Date Call Received:	Not reported
Material Spilled 1 :	Not reported	Amount Spilled 1 :	Not reported
Region Close Dt :	Not reported		
Resource Affectd:	On Land		
Spill Cause:	Tank Failure		
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Facility Contact:	STAN GILINSKY	Facility Tele:	(607) 722-2000
Investigator:	JOA	SWIS:	03
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
PBS :	Not reported		
Spiller Contact:	STAN GILINSKY	Spiller Phone:	(607) 722-2000
Spiller:	PIERSON OFFICE SUPPLY		
Spiller Address:	350 WATER ST BINGHAMTON, NY		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	10/10/96		
Spill Notifier:	Responsible Party	PBS Number:	Not reported
Cleanup Ceased:	10/10/96		
Last Inspection:	09/19/96		
Cleanup Meets Standard:	False		
Recommended Penalty:	Penalty Not Recommended		
Spiller Cleanup Date:	/ /		
Enforcement Date:	/ /		
Investigation Complete:	/ /		
UST Involvement:	False		
Spill Record Last Update:	10/16/96		
Is Updated:	False		
Corrective Action Plan Submitted:	/ /		
True Date :	Not reported		

PIERSON OFFICE SUPPLY (Continued) **S102399655**

Date Spill Entered In Computer Data File: 08/27/96
Date Region Sent Summary to Central Office: / /
Tank Test:
PBS Number: Not reported
Tank Number: Not reported
Test Method: Not reported
Capacity of Failed Tank: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported
Material:
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #2 FUEL OIL
Class Type: Petroleum
Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994
Num Times Material Entry In File: 24464
Material Class Type: 1
Quantity Spilled: 0
Units: Gallons
Unknown Qty Spilled: No
Quantity Recovered: 0
Unknown Qty Recovered: False
Material: #2 FUEL OIL
Class Type: Petroleum
Chem Abstract Service Number: #2 FUEL OIL
Last Date: 12/07/1994
Num Times Material Entry In File: 24464
DEC Remarks: Not reported
Spill Cause: 3k fuel oil tank removed. soil sample results above soil guidance values . mw requested by dec

---

36 SE 1/2-1 3712 ft. **BINGHAMTON GAS WORKS** **Coal Gas** ***G000000526***
291 COURT ST. **N/A**
BINGHAMTON, NY

Relative: Lower

Actual: 847 ft.

COAL GAS SITE DESCRIPTION:
Site is on the northern side of Court St. across from the end of Tompkins. Site is south of the railroad tracks, and east of Liberty.

---

37 SSE 1/2-1 5030 ft. **ALMY BROTHERS SITE** **SHWS** **S100116032**
8 JACKSON STREET **N/A**
BINGHAMTON, NY 13903

Relative: Lower

Actual: 840 ft.

SHWS:
EPA ID: Not reported
Region: 7
Acres: 1-2 Acres
Legal Action Type: Dump
Facility ID Number 704021
Soil Type: Silt, sand and gravel.

ALMY BROTHERS SITE (Continued) **S100116032**

Lat/Long :	42 5' 48" / 75 53' 55"
Current Owner Name :	*** Multiple Site Owners ***
Current Owner Address :	Not reported
	Not reported
Owner During Disposal :	Almy Brothers
Operator During Disposal :	Almy Brothers
Stated Operator Address :	*8 Jackson Street*
State Operator City :	Binghamton
State Operator State :	NY
Haz Waste Disposal Period :	From: unknown To: 04/1989
Cofirmed Haz Waste Qty :	2,4,5-TP (Silvex): 100 gallons
Analytical Data Available :	Air, Groundwater, *Surface Water, Soil, Sediment*
Applicable Standards Exceeded :	Groundwater
Depth Groundwater :	Range: 5 To 10 Feet.
Legal Action Type :	Not reported
Facility Status :	Not reported
Remedial Action :	Complete
Nature Of Action :	Soil and groundwater treatment.
Site Description:	This site is small semi-abandoned old commercial property in the City of Binghamton. It is located in a mixed residential and light commercial area. A large wooden shed was reportedly used for storing pesticides and other assorted chemicals. A numberof small spills occurred here over time due to poor housekeeping practices. On April 19, 1989, a major pesticide spill occurred. It caused substantial contamination on the ground near the building. The spill took place directly over groundwater usedas a sole source drinking water aquifer. Soil samples were taken in the alleyway adjacent to the building, and analysis confirmed the presence of 2,4,5-TP (Silvex), and 2,4-D. Area residents complained about the odors from the spilled pesticides. Three spill clean-ups were done as an Interim Remedial Measure (IRM) starting in May of 1989 and finishing up later that summer. A total of 70 fifty-five gallon drums were filled with contaminated soil. Large polyethylene sheets were placed over the ground in an attempt to suppress the pesticide odors. The drums and the polyethylene sheets were removed from the property in the mid-1990s. The site was referred to the Attorney General's Office in August of 1990. An EQBA funded Remedial Investigation/Feasibility Study (RI/FS) began in 1991, amd was completed in 1993. Limited drum sampling was done by DEC staff in October of 1993 in order to characterize the waste. A Record of Decision (ROD) was signed on March 1, 1994. The ROD called for on-sitesoil treatment. The first phase of construction was to set up a base catalyzed decomposition (BCD) treatment system on the site. This work was completed in the fall of 1995. The second contract for the actual BCD treatment began in the spring of 1996, and was completed in January of 1998. All work specified in the ROD has now been completed. The operation, monitoring and maintenance of the site includes semi-annual groundwater monitoring.
Environmental Problems Assesment:	Contamination of soils and groundwater by pesticides, herbicides and petroleum hydrocarbons has occurred at this site. Soil treatment will consist of on-site base catalyzed dechlorination. Groundwater treatment, if needed after the source removal, will consist of extraction & treatment of the water with granulated activated carbon (GAC).
Health Problems Assesment:	Surface soils, subsurface soils, sediment, groundwater and objects stored at this site were contaminated with pesticides. The area is served by a municipal water supply. Potential exposure concerns associated with this site initially involved vapor from tracked-in contamination penetrating food packaging in a building on the site and direct contact with contaminated surface soils and objects at the site. The food storage area was cleaned and the foods were sampled (1989) and were found to be

ALMY BROTHERS SITE (Continued) **S100116032**

uncontaminated. There were reports from residents in the community of trespass and contact with contamination on the site. There was also concern that the employees of the businesses that continued to operate on the site would contact surficial contamination. Barriers and fencing were provided to prevent these on-site direct contact exposures. Surface soils, subsurface soils, sediment and contaminated objects on the site were remediated by removal, cleaning, or on-site ex-situ treatment.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BINGHAMTON	S103482967	TRAVELPORT	RT 11		NY Spills
BINGHAMTON	S104789141	CHENANGO PLAZA	RT 12		NY Spills
BINGHAMTON	S104284447	EXTRA MART	RT 12 / PORT RD		NY Spills
BINGHAMTON	S102166912	RED BARREL	RT 12 / 12A		NY Spills
BINGHAMTON	1004758225	DAY & NIGHT #6	RTE 12 & PORT RD	13901	RCRA-SQG, FINDS
BINGHAMTON	S104646233		RT 17 E		NY Spills
BINGHAMTON	S104646035		RT 17 WB		NY Spills
BINGHAMTON	S102167892	RT 17 & I 81 BRIDGE JOB	RT 17 / RT 81 BRIDGE		NY Spills
BINGHAMTON	S102243583	RT 17 WB NEXT TO EXIT 68	RT 17 WEST		NY Spills
BINGHAMTON	1000191637	NYSDOT BIN 105483 - 1 & 2	RTE 17 SUSQUEHANNA RIVER	13901	RCRA-SQG, FINDS
BINGHAMTON	1000191636	NYSDOT BIN 105485 - 1 & 2	RTE 17 OVER RIVER RD	13901	RCRA-SQG, FINDS
BINGHAMTON	S102166915	GARFIELD TRUCKING	RT 17E.		NY Spills
BINGHAMTON	S104643970		RT 17E. AFTER FRONT ST EX		NY Spills
BINGHAMTON	S104194246	ROADWAY AND STREAM	RT 17EB AT KIRKWOOD LINE		NY Spills
BINGHAMTON	S102164739	RT 17W TRUCK	RT 17W		NY Spills
BINGHAMTON	1000191635	NYSDOT BIN 1015900	RTE 20 OVER FLY CRK	13901	RCRA-SQG, FINDS
BINGHAMTON	1007112562	NORFOLK SOUTHERN CORP	SR 214 & 42 & FRONT ST	13901	RCRA-LQG
BINGHAMTON	S102166201	ACCIDENT	EX 3 ONRAMP RT 81		NY Spills
BINGHAMTON	1000556344	NYSDOT BRIDGE BIN 1013021 & 2	RTE 434 OVER SUSQUEHANNA RIVER	13901	RCRA-SQG, FINDS
BINGHAMTON	S102243708	TRIBUTARY TO SUS RIVER	ROUTE 7		NY Spills
BINGHAMTON	1001128011	NYSDOT BRIDGES BIN 1031181 & 2	I 81 OVER RTE 11 & CHENANGO	13901	FINDS, RCRA-LQG
BINGHAMTON	1001128000	NYSDOT	I 81 OVER RTE 7 & BROAD AVE	13901	FINDS, RCRA-LQG
BINGHAMTON	S104643857		HIGHWAY 81-EXIT 2W		NY Spills
BINGHAMTON	S106468980	TRAFFIC ACCIDENT	I 81-N EXIT 5		NY Spills
BINGHAMTON	1000191454	NYSDOT BIN 1063340	RTE 989 BRIDGE CADOSIA CREEK	13901	RCRA-SQG, FINDS
BINGHAMTON	1004571701	THERMO KING OF BINGHAMTON	AERTIAL HWY	13901	FINDS
BINGHAMTON	S102447559	BINGHAMTON AIRPORT	AIRPORT RD		NY Spills
BINGHAMTON	S105842083	CHENANGO (T) SLF	AIRPORT ROAD	13901	SWF/LF
BINGHAMTON	S102677614	B'TON TRAVEL PLAZA	BINGHAMTON TRAVEL PLAZA		LTANKS
BINGHAMTON	S104643665		BINGHAMTON STATE OFF.BLDG		NY Spills
BINGHAMTON	S102677580	STYRENE MONOMER	BINGHAMTON HWY / FREDRICK		NY Spills
BINGHAMTON	S102165860	BOCES BINGHAMTON	BOCES		NY Spills
BINGHAMTON	S102660821	NYS&W RAILROAD	BRANDYWINE HWY BOX 2086		LTANKS
BINGHAMTON	S103828534	LIBERTY ST YARD	BRANDYWINE AV		NY Spills
BINGHAMTON	S102166715	DRUMS - R.R. TRACKS	BRANDYWINE AVE.-TRACKS		NY Spills
BINGHAMTON	S102164882	CHENANGO RIVER - SHEEN	CHENANGO RIVER		NY Spills
BINGHAMTON	1004761899	NYSDOT	CHENANGO ST OVER NS &	13901	FINDS, RCRA-LQG
BINGHAMTON	S105912504	BINGHAMTON-JOHNSON CITY COMPOST	CITY HALL; GOV PLAZA	13901	SWF/LF
BINGHAMTON	S103567074	KAY TERMINALS, BINGHAMTON	CLINTON STREET		NY Spills
BINGHAMTON	1000185757	NYSDEC DHWR ELDREDGE ST	ELDREDGE ST	13901	RCRA-SQG, FINDS
BINGHAMTON	S102166037	BOLUS TRUCKING	RT.81, ENTR. #6 SOUTH		NY Spills
BINGHAMTON	S102447512	RT.81 SOUTHBOUND	EXIT 17 WESTBOUND RAMP		NY Spills
BINGHAMTON	S102165127	TRANSFORMER - KROEHLER	E. FRED.,ROBINSON,GRISWOL		NY Spills

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BINGHAMTON	S104646945		FRONT ST		NY Spills
BINGHAMTON	S102165805	FRONT ST.; ACADEMY PAVING	FRONT STREET		NY Spills
BINGHAMTON	S102165673	GALLAHER GAS STATION	FRONT ST.		NY Spills
BINGHAMTON	S104193095	BROOME CO. SHERIFF'S DEPT	FRONT ST.		NY Spills
BINGHAMTON	U003313761	CORBISELLO QUARRIES INC.	FRONT ST.	13901	UST
BINGHAMTON	1003864274	NYSEG NOYSE ISLAND	JUNCTIO OF ELDRIGE & WATER STR	13901	CERC-NFRAP
BINGHAMTON	S105235279	LAUGHLIN CREEK	LAUGHLIN RD/RTE 11		NY Spills
BINGHAMTON	S103567300	BINGHAMTON POST OFFICE	LEWIS ST.		NY Spills
BINGHAMTON	S104643772		LIBERTY ST.		NY Spills
BINGHAMTON	S106006692	RT 81 SB	NORTH OF EX 6		NY Spills
BINGHAMTON	S104643929		OFF ROBINSON ST.		NY Spills
BINGHAMTON	1000234707	BINGHAMTON	OLD VESTAL RD.		LTANKS
BINGHAMTON	S105995907	T/DICKINSON OFFICES	OLD FRONT STREET		LTANKS
BINGHAMTON	S102164907	OLD STATE RD	OLD STATE RD		NY Spills
BINGHAMTON	S102447578	BINGHAMTON PSCY CENTER	ROBINSON / WINDYHILL ROAD		NY Spills
BINGHAMTON	S106015625	CALVIN COOLIDGE SCHOOL	ROBINSON STREET		NY Spills
BINGHAMTON	S102165321	MERCURY - PSYCH. CENTER	ROBINSON ST. PSYCH. CENTE		NY Spills
BINGHAMTON	1000329088	SUNOCO SERVICE STATION	W STATE ST NS	13901	RCRA-SQG, FINDS
BINGHAMTON	S104282786	BINGHAMTON RAIL YARD	STUB TRACK		NY Spills
BINGHAMTON	S102167940	SUSQUEHANNA - STORMDRAIN	SUSQ. R. EAST OF STATE ST		NY Spills
BINGHAMTON	S102166617	STATE ST. BRIDGE	SUSQ. RIVER NEAR STATE ST		NY Spills
BINGHAMTON	S106012681	HESS STATION #32378	1454 UPPER FRONT STREET	13901	NY Spills
BINGHAMTON	1001079987	BINGHAMTON CITY BRIDGE BIN 2226170	SOUTH WASHINGTON ST OVER	13901	FINDS, RCRA-LQG
BINGHAMTON	S104284643	NORFOLK SOUTHERN R.R.	WATER STREET		NY Spills
BINGHAMTON	S106437372	DOUGLASS & BRADLEY	11 WATER ST.	13901	DRYCLEANERS
BINGHAMTON	S104195711	RESIDENCE	6 NORTH WINDY RD		NY Spills

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/12/04
Date Made Active at EDR: 12/09/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/02/04
Elapsed ASTM days: 37
Date of Last EDR Contact: 11/02/04

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 6
Telephone: 214-655-6659

EPA Region 8
Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 09/23/04
Date Made Active at EDR: 12/09/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/02/04
Elapsed ASTM days: 37
Date of Last EDR Contact: 11/02/04

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 08/10/04
Date Made Active at EDR: 10/27/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/21/04
Elapsed ASTM days: 36
Date of Last EDR Contact: 09/21/04

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 08/10/04
Date Made Active at EDR: 10/27/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/21/04
Elapsed ASTM days: 36
Date of Last EDR Contact: 09/21/04

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/23/04
Date Made Active at EDR: 11/18/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 10/07/04
Elapsed ASTM days: 42
Date of Last EDR Contact: 12/07/04

RCRA: Resource Conservation and Recovery Act Information
Source: EPA
Telephone: 800-424-9346
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 08/10/04
Date Made Active at EDR: 10/11/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 08/24/04
Elapsed ASTM days: 48
Date of Last EDR Contact: 11/24/04

ERNS: Emergency Response Notification System
Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/03
Date Made Active at EDR: 03/12/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/26/04
Elapsed ASTM days: 46
Date of Last EDR Contact: 10/25/04

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01
Database Release Frequency: Biennially

Date of Last EDR Contact: 09/20/04
Date of Next Scheduled EDR Contact: 12/13/04

CONSENT: Superfund (CERCLA) Consent Decrees
Source: Department of Justice, Consent Decree Library
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/05/04
Database Release Frequency: Varies

Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

ROD: Records Of Decision
Source: EPA
Telephone: 703-416-0223
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/09/04
Database Release Frequency: Annually

Date of Last EDR Contact: 10/06/04
Date of Next Scheduled EDR Contact: 01/03/05

DELISTED NPL: National Priority List Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/12/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/02/04
Date of Next Scheduled EDR Contact: 01/31/05

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 09/09/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/08/04
Date of Next Scheduled EDR Contact: 01/03/05

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/08/04
Database Release Frequency: Annually

Date of Last EDR Contact: 10/28/04
Date of Next Scheduled EDR Contact: 01/17/05

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/15/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/04/04
Date of Next Scheduled EDR Contact: 01/03/05

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 09/13/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/28/04
Date of Next Scheduled EDR Contact: 12/27/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 202-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 11/22/04
Date of Next Scheduled EDR Contact: 02/21/05

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-564-3887
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/29/04
Database Release Frequency: Annually
Date of Last EDR Contact: 11/12/04
Date of Next Scheduled EDR Contact: 02/07/05

DOD: Department of Defense Sites
Source: USGS
Telephone: 703-692-8801
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 11/12/04
Date of Next Scheduled EDR Contact: 02/07/05

UMTRA: Uranium Mill Tailings Sites
Source: Department of Energy
Telephone: 505-845-0011
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized. In 1978, 24 inactive uranium mill tailings sites in Oregon, Idaho, Wyoming, Utah, Colorado, New Mexico, Texas, North Dakota, South Dakota, Pennsylvania, and on Navajo and Hopi tribal lands, were targeted for cleanup by the Department of Energy.

Date of Government Version: 04/22/04
Database Release Frequency: Varies
Date of Last EDR Contact: 09/20/04
Date of Next Scheduled EDR Contact: 12/20/04

ODI: Open Dump Inventory
Source: Environmental Protection Agency
Telephone: 800-424-9346
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/85
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 05/23/95
Date of Next Scheduled EDR Contact: N/A

FUDS: Formerly Used Defense Sites
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/03
Database Release Frequency: Varies
Date of Last EDR Contact: 10/04/04
Date of Next Scheduled EDR Contact: 01/03/05

INDIAN RESERV: *Indian Reservations*
Source: USGS
Telephone: 202-208-3710
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/12/04
Date of Next Scheduled EDR Contact: 02/07/05

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-566-0250
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/02
Database Release Frequency: Annually

Date of Last EDR Contact: 09/20/04
Date of Next Scheduled EDR Contact: 12/20/04

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-5521
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/02
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 03/07/05

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA
Telephone: 202-564-2501

Date of Government Version: 04/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/07/04
Date of Next Scheduled EDR Contact: 12/20/04

SSTS: Section 7 Tracking Systems
Source: EPA
Telephone: 202-564-5008
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 10/18/04
Date of Next Scheduled EDR Contact: 01/17/05

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 09/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/07/04
Date of Next Scheduled EDR Contact: 12/20/04

STATE OF NEW YORK ASTM STANDARD RECORDS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State
Source: Department of Environmental Conservation
Telephone: 518-402-9553
State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/01/03
Date Made Active at EDR: 03/12/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 02/27/04
Elapsed ASTM days: 14
Date of Last EDR Contact: 11/23/04

SWF/LF: Facility Register
Source: Department of Environmental Conservation
Telephone: 518-457-2051
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/01/04
Date Made Active at EDR: 11/29/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/01/04
Elapsed ASTM days: 28
Date of Last EDR Contact: 11/01/04

LTANKS: Spills Information Database
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 07/26/04
Date Made Active at EDR: 08/26/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 08/04/04
Elapsed ASTM days: 22
Date of Last EDR Contact: 10/25/04

UST: Petroleum Bulk Storage (PBS) Database
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 01/01/02
Date Made Active at EDR: 03/22/02
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/20/02
Elapsed ASTM days: 30
Date of Last EDR Contact: 10/25/04

CBS UST: Chemical Bulk Storage Database
Source: NYSDEC
Telephone: 518-402-9549
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/02
Date Made Active at EDR: 03/22/02
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/20/02
Elapsed ASTM days: 30
Date of Last EDR Contact: 10/25/04

MOSF UST: Major Oil Storage Facilities Database
Source: NYSDEC
Telephone: 518-402-9549
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/02
Date Made Active at EDR: 03/22/02
Database Release Frequency: Varies

Date of Data Arrival at EDR: 02/20/02
Elapsed ASTM days: 30
Date of Last EDR Contact: 10/25/04

VCP: Voluntary Cleanup Agreements
Source: Department of Environmental Conservation
Telephone: 518-402-9711
The voluntary remedial program uses private monies to get contaminated sites r emediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

Date of Government Version: 06/29/04
Date Made Active at EDR: 08/16/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/29/04
Elapsed ASTM days: 48
Date of Last EDR Contact: 09/27/04

SWRCY: Registered Recycling Facility List
Source: Department of Environmental Conservation
Telephone: 518-402-8705
A listing of recycling facilities.

Date of Government Version: 11/15/04
Date Made Active at EDR: 12/15/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/15/04
Elapsed ASTM days: 30
Date of Last EDR Contact: 11/15/04

SWTIRE: Registered Waste Tire Storage & Facility List
Source: Department of Environmental Conservation
Telephone: 518-402-8694

Date of Government Version: 04/01/04
Date Made Active at EDR: 06/25/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 05/19/04
Elapsed ASTM days: 37
Date of Last EDR Contact: 11/18/04

STATE OF NEW YORK ASTM SUPPLEMENTAL RECORDS

HSWDS: Hazardous Substance Waste Disposal Site Inventory
Source: Department of Environmental Conservation
Telephone: 518-402-9564
The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 09/01/02
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 02/28/05

AST: Petroleum Bulk Storage
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Registered Aboveground Storage Tanks.

Date of Government Version: 01/01/02
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

CBS AST: Chemical Bulk Storage Database
Source: NYSDEC
Telephone: 518-402-9549
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/02
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

MOSF AST: Major Oil Storage Facilities Database
Source: NYSDEC
Telephone: 518-402-9549
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/02
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

SPILLS: Spills Information Database
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 07/26/04
Database Release Frequency: Varies

Date of Last EDR Contact: 10/25/04
Date of Next Scheduled EDR Contact: 01/24/05

DEL SHWS: Delisted Registry Sites
Source: Department of Environmental Conservation
Telephone: 518-402-9553
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 04/01/04
Database Release Frequency: Annually

Date of Last EDR Contact: 11/23/04
Date of Next Scheduled EDR Contact: 02/21/05

DRYCLEANERS: Registered Drycleaners
Source: Department of Environmental Conservation
Telephone: 518-402-8403
A listing of all registered drycleaning facilities.

Date of Government Version: 06/15/04
Database Release Frequency: Varies

Date of Last EDR Contact: 05/21/04
Date of Next Scheduled EDR Contact: N/A

SPDES: State Pollutant Discharge Elimination System
Source: Department of Environmental Conservation
Telephone: 518-402-8233
New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 09/23/04
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/10/04
Date of Next Scheduled EDR Contact: 02/07/05

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AIRS: Air Emissions Data
Source: Department of Environmental Conservation
Telephone: 518-402-8452

Date of Government Version: 12/31/02
Database Release Frequency: Annually

Date of Last EDR Contact: 12/06/04
Date of Next Scheduled EDR Contact: 02/21/05

LOCAL RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing
Source: Cortland County Health Department
Telephone: 607-753-5035

Date of Government Version: 10/07/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 02/28/05

Cortland County Storage Tank Listing
Source: Cortland County Health Department
Telephone: 607-753-5035

Date of Government Version: 10/07/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 02/28/05

NASSAU COUNTY:

Registered Tank Database
Source: Nassau County Health Department
Telephone: 516-571-3314

Date of Government Version: 05/21/03
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/01/04
Date of Next Scheduled EDR Contact: 01/31/05

Registered Tank Database
Source: Nassau County Health Department
Telephone: 516-571-3314

Date of Government Version: 05/21/03
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/01/04
Date of Next Scheduled EDR Contact: 01/31/05

Storage Tank Database
Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000

Date of Government Version: 05/25/04
Database Release Frequency: Varies

Date of Last EDR Contact: 11/08/04
Date of Next Scheduled EDR Contact: 02/07/05

Storage Tank Database
Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000

Date of Government Version: 05/25/04
Database Release Frequency: Varies

Date of Last EDR Contact: 11/08/04
Date of Next Scheduled EDR Contact: 02/07/05

ROCKLAND COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Petroleum Bulk Storage Database
Source: Rockland County Health Department
Telephone: 914-364-2605

Date of Government Version: 10/27/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/04/04
Date of Next Scheduled EDR Contact: 01/03/05

Petroleum Bulk Storage Database
Source: Rockland County Health Department
Telephone: 914-364-2605

Date of Government Version: 10/27/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/04/04
Date of Next Scheduled EDR Contact: 01/03/05

SUFFOLK COUNTY:

Storage Tank Database
Source: Suffolk County Department of Health Services
Telephone: 631-854-2521

Date of Government Version: 04/16/04
Database Release Frequency: Annually

Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 02/28/05

Storage Tank Database
Source: Suffolk County Department of Health Services
Telephone: 631-854-2521

Date of Government Version: 04/16/04
Database Release Frequency: Annually

Date of Last EDR Contact: 11/29/04
Date of Next Scheduled EDR Contact: 02/28/05

WESTCHESTER COUNTY:

Listing of Storage Tanks
Source: Westchester County Department of Health
Telephone: 914-813-5161
Listing of underground storage tanks in Westchester County.

Date of Government Version: 08/16/04
Database Release Frequency: Varies

Date of Last EDR Contact: 10/13/04
Date of Next Scheduled EDR Contact: 02/28/05

Listing of Storage Tanks
Source: Westchester County Department of Health
Telephone: 914-813-5161
Listing of aboveground storage tanks in Westchester County.

Date of Government Version: 08/16/04
Database Release Frequency: Varies

Date of Last EDR Contact: 10/13/04
Date of Next Scheduled EDR Contact: 02/28/05

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWNFIELDS DATABASES

Brownfields: Brownfields Site List
Source: Department of Environmental Conservation
Telephone: 518-402-9764

Date of Government Version: 06/29/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/27/04
Date of Next Scheduled EDR Contact: 12/13/04

VCP: Voluntary Cleanup Agreements
Source: Department of Environmental Conservation
Telephone: 518-402-9711
The voluntary remedial program uses private monies to get contaminated sites r emediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

Date of Government Version: 06/29/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 09/27/04
Date of Next Scheduled EDR Contact: 12/13/04

US BROWNFIELDS: A Listing of Brownfields Sites
Source: Environmental Protection Agency
Telephone: 202-566-2777
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: N/A
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as *GeoData Digital Line Graphs* from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily *gas pipelines.*

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

New York State Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961
Coverages are based on official New York State Freshwater Wetlands Maps as described in Article 24-0301 of the Environmental Conservation Law.

STREET AND ADDRESS INFORMATION

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BINGHAMTON PLAZA
33 WEST STATE STREET
BINGHAMTON, NY 13901

TARGET PROPERTY COORDINATES

Latitude (North):	42.110699 - 42' 6' 38.5"
Longitude (West):	75.904099 - 75' 54' 14.8"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	425252.1
UTM Y (Meters):	4662249.0
Elevation:	858 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

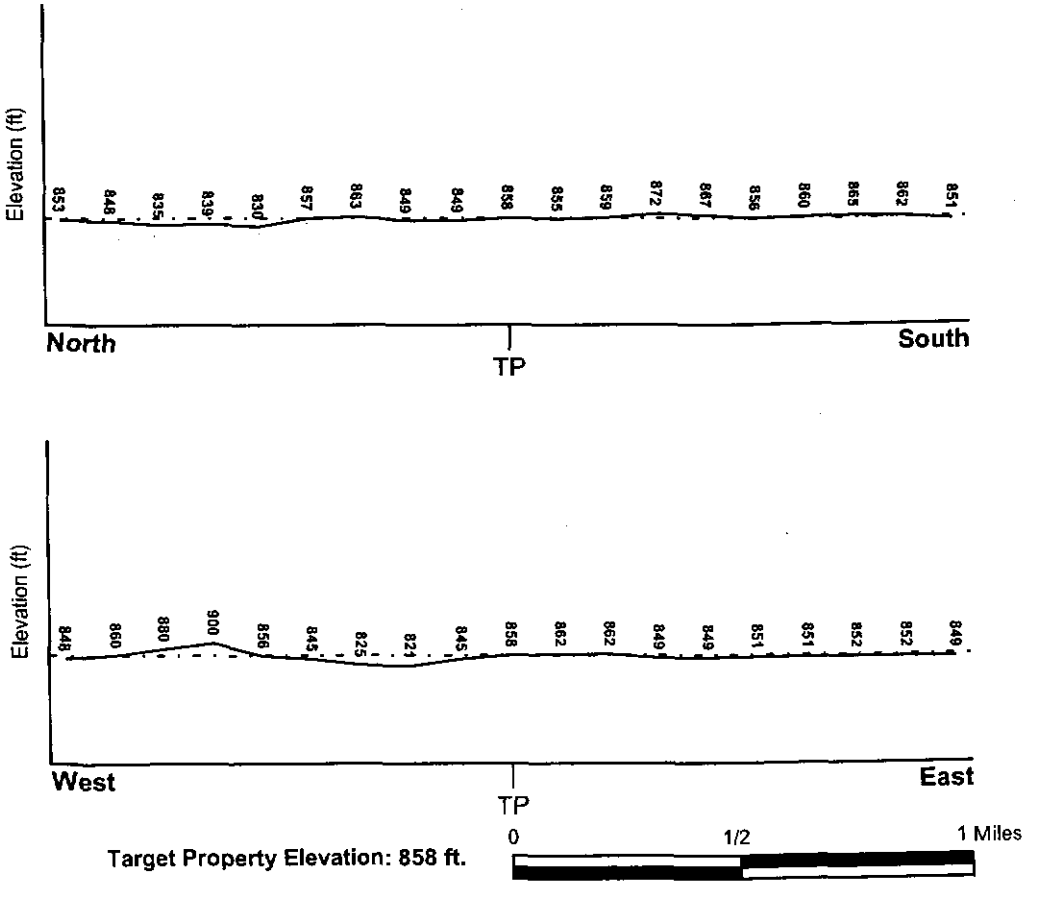
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

USGS Topographic Map:	42075-A8 BINGHAMTON WEST, NY
General Topographic Gradient:	General WNW
Source:	USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
BROOME, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	3600380002C
Additional Panels in search area:	3600440001B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BINGHAMTON WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which *contaminant migration* may be occurring.

ROCK STRATIGRAPHIC UNIT **GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic	Category:	*Stratified Sequence*
System:	Devonian		
Series:	Upper Devonian		
Code:	D3 *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: *URBAN LAND*

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

Soil Layer Information

	Boundary			Classification			
Layer	**Upper**	**Lower**	**Soil Texture Class**	**AASHTO Group**	**Unified Soil**	**Permeability Rate (in/hr)**	**Soil Reaction (pH)**
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:	silt loam loamy fine sand channery - silt loam
Surficial Soil Types:	silt loam loamy fine sand channery - silt loam
Shallow Soil Types:	loam silt loam channery - silt loam
Deeper Soil Types:	silt loam fine sand silty clay unweathered bedrock very channery - loam gravelly - loam

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS0749879	1/4 - 1/2 Mile SW
3	USGS0749929	1/4 - 1/2 Mile WNW
A4	USGS0749962	1/4 - 1/2 Mile North

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A5	USGS0749964	1/4 - 1/2 Mile North
A6	USGS0749963	1/4 - 1/2 Mile North
A7	USGS0749965	1/4 - 1/2 Mile NNW
A8	USGS0750026	1/4 - 1/2 Mile North
A9	USGS0750027	1/4 - 1/2 Mile North
A11	USGS0750030	1/4 - 1/2 Mile North
A12	USGS0750029	1/4 - 1/2 Mile North
A13	USGS0750031	1/4 - 1/2 Mile North
14	USGS0749823	1/4 - 1/2 Mile ESE
B15	USGS0749824	1/4 - 1/2 Mile WSW
B16	USGS0749880	1/4 - 1/2 Mile WSW
C17	USGS0749812	1/4 - 1/2 Mile WSW
C18	USGS0749810	1/4 - 1/2 Mile WSW
C19	USGS0749811	1/4 - 1/2 Mile WSW
20	USGS0749968	1/2 - 1 Mile NNW
C21	USGS0749876	1/2 - 1 Mile WSW
C22	USGS0749813	1/2 - 1 Mile WSW
C23	USGS0749869	1/2 - 1 Mile WSW
D24	USGS0749889	1/2 - 1 Mile West
D25	USGS0749886	1/2 - 1 Mile WSW
26	USGS0749866	1/2 - 1 Mile WSW
D27	USGS0749825	1/2 - 1 Mile WSW
E28	USGS0749860	1/2 - 1 Mile SW
E29	USGS0749798	1/2 - 1 Mile SW
30	USGS0749872	1/2 - 1 Mile WSW
31	USGS0750038	1/2 - 1 Mile NE
F33	USGS0749854	1/2 - 1 Mile SE
34	USGS0749883	1/2 - 1 Mile West
35	USGS0749884	1/2 - 1 Mile West
36	USGS0749881	1/2 - 1 Mile West
G37	USGS0749804	1/2 - 1 Mile WSW
38	USGS0749899	1/2 - 1 Mile West
G39	USGS0749861	1/2 - 1 Mile WSW
H40	USGS0749757	1/2 - 1 Mile SW
41	USGS0749912	1/2 - 1 Mile East
H42	USGS0749758	1/2 - 1 Mile SW
I43	USGS0749751	1/2 - 1 Mile SSW
J44	USGS0749802	1/2 - 1 Mile WSW
I45	USGS0749748	1/2 - 1 Mile SSW
J46	USGS0749799	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	NY0001651	1/8 - 1/4 Mile NNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

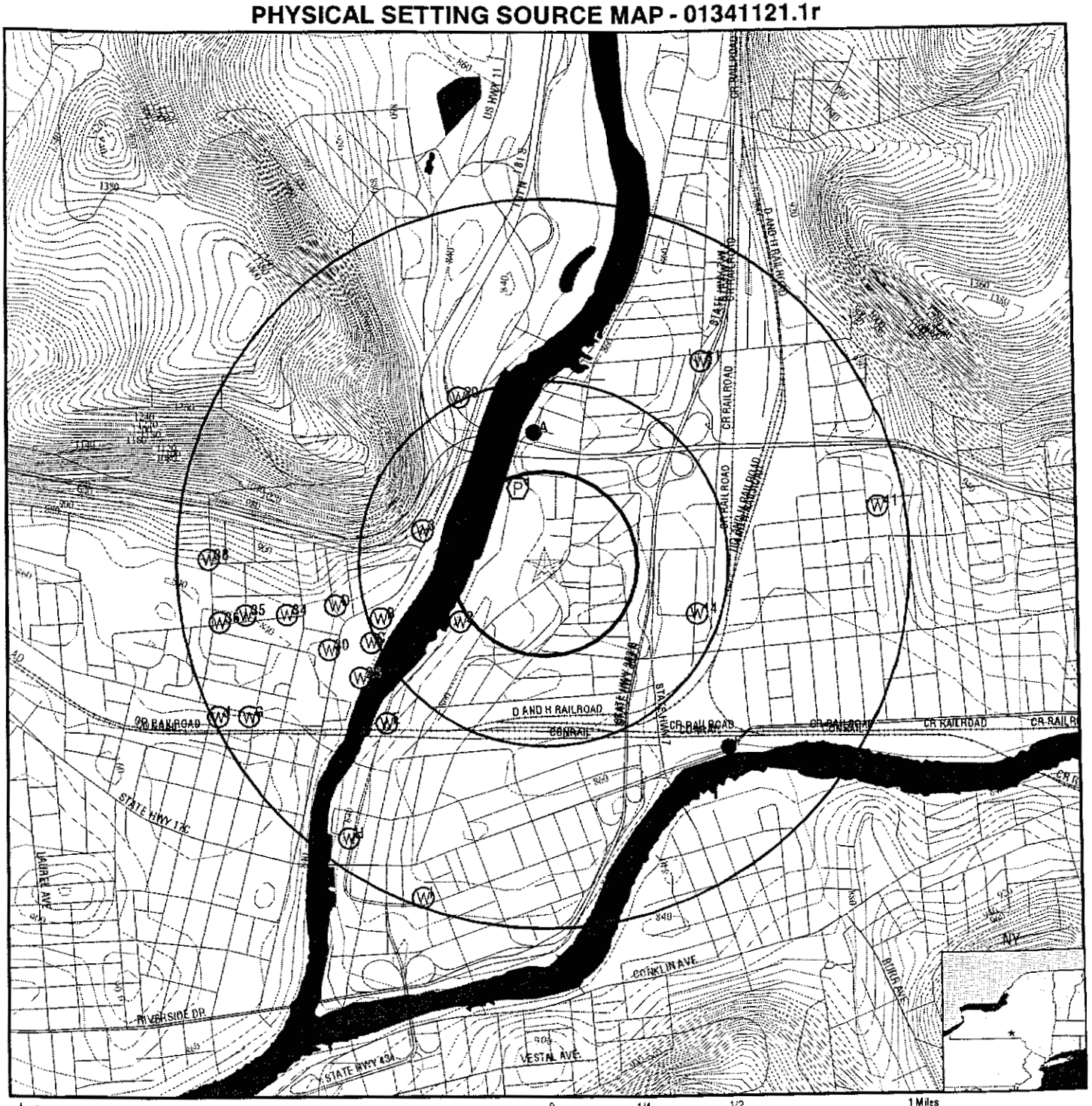
MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A10	NYWS003422	1/4 - 1/2 Mile North
F32	NYWS003455	1/2 - 1 Mile SE

PHYSICAL SETTING SOURCE MAP - 01341121.1r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data

TARGET PROPERTY:	Binghamton Plaza	CUSTOMER:	InteGreyted Consultants, LLC
ADDRESS:	33 West State Street	CONTACT:	Mark J Schumacher
CITY/STATE/ZIP:	Binghamton NY 13901	INQUIRY #:	01341121.1r
LAT/LONG:	42.1107 / 75.9041	DATE:	January 13, 2005 8:17 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **NNW** **1/8 - 1/4 Mile** **Lower**	**FRDS PWS**	**NY0001651**

PWS ID:	NY0001651	PWS Status:	Active
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	BINGHAMTON CITY CITY HALL BINGHAMTON, NY 13901		
Addressee / Facility:	System Owner/Responsible Party CRABB JUANITA CITY OF BINGHAMTON CITY HALL BINGHAMTON, NY 13901		
Facility Latitude:	42 06 10	Facility Longitude:	075 53 47
Facility Latitude:	42 06 49	Facility Longitude:	075 54 21
Facility Latitude:	42 06 05	Facility Longitude:	075 53 44
City Served:	BINGHAMTON (C)		
Treatment Class	Not Reported	Population:	Not Reported

PWS currently has or had major violation(s) or enforcement: No

2 **SW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS0749879**

Agency:	USGS	Site ID:	420630075543201
Site Name:	BM 164		
Dec. Latitude:	42.10841		
Dec. Longitude:	-75.90853		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	850.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	49.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1947-10-01	10.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
3 **WNW** **1/4 - 1/2 Mile** ***Lower***	**FED USGS**	**USGS0749929**

Agency:	USGS	Site ID:	420643075543901
Site Name:	BM 197		
Dec. Latitude:	42.11202		
Dec. Longitude:	-75.91047		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	845.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	143		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1958-09-01	19.00	

	Database	EDR ID Number
A4 **North** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS0749962**

Agency:	USGS	Site ID:	420656075541901
Site Name:	BM 212		
Dec. Latitude:	42.11563		
Dec. Longitude:	-75.90492		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	838.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19400101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	90.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1940-03-01	6.00	

A5
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS0749964**

Agency:	USGS	Site ID:	420656075541903
Site Name:	BM 214		
Dec. Latitude:	42.11563		
Dec. Longitude:	-75.90492		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	838.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	74.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-09-01	14.00	

A6
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS0749963**

Agency:	USGS	Site ID:	420656075541902
Site Name:	BM 213		
Dec. Latitude:	42.11563		
Dec. Longitude:	-75.90492		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	838.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19340101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	173		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1934-01-01	16.00	

A7
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS0749965**

Agency:	USGS	Site ID:	420656075542301
Site Name:	BM 215		
Dec. Latitude:	42.11563		
Dec. Longitude:	-75.90603		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	830.00		
Hydrologic code:	02050102		
Topographic:	Stream channel		
Site Type:	Ground-water other than Spring		
Const Date:	19650101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	56.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

A8
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS0750026**

Agency:	USGS	Site ID:	420657075541701
Site Name:	BM 216		
Dec. Latitude:	42.11591		
Dec. Longitude:	-75.90436		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	838.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	54.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-09-01	11.00	

A9
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS0750027**

Agency:	USGS	Site ID:	420657075541801
Site Name:	BM 217		
Dec. Latitude:	42.11591		
Dec. Longitude:	-75.90464		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	835.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	66.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-09-01	11.00	

A10
North
1/4 - 1/2 Mile
Lower

NY WELLS **NYWS003422**

Well Id:	NY0301651	System name:	BINGHAMTON (C)
System Id:	003	Well name:	OLMSTEAD WELL
Type:	WL	Active?:	A
County:	BROOME COUNTY	Latitude:	420658.26
Longitude:	755415.54	Slec_type_:	AC
Agency:	BINGHAMTON, CITY OF - MAYOR		
Address:	GOVERNMENTAL PLAZA 38 HAWLEY STREET		
City/State/Zip:	BINGHAMTON NY 13901		
Phone:	607-772-7001		

A11
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS0750030**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	420658075541602
Site Name:	BM 219		
Dec. Latitude:	42.11619		
Dec. Longitude:	-75.90408		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	840.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19650101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	44.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-04-01	14.00	

A12
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS0750029**

Agency:	USGS	Site ID:	420658075541601
Site Name:	BM 218		
Dec. Latitude:	42.11619		
Dec. Longitude:	-75.90408		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	840.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19630101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	43.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1963-06-01	11.00	

A13
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS0750031**

Agency:	USGS	Site ID:	420658075541603
Site Name:	BM 220		
Dec. Latitude:	42.11619		
Dec. Longitude:	-75.90408		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	840.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19650101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	51.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1965-06-01	17.00	

14
ESE
1/4 - 1/2 Mile
Lower

FED USGS **USGS0749823**

Agency:	USGS	Site ID:	420631075534701
Site Name:	BM 171		
Dec. Latitude:	42.10869		
Dec. Longitude:	-75.89603		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	843.00		
Hydrologic code:	02050102		
Topographic:	Alluvial or marine terrace		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	119		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-11-01	14.00	

B15
WSW
1/4 - 1/2 Mile
Lower

FED USGS ***USGS0749824***

Agency:	USGS	Site ID:	420631075544601
Site Name:	BM 172		
Dec. Latitude:	42.10869		
Dec. Longitude:	-75.91242		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	840.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19670101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	115		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-05-01	17.00	

B16
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS0749880**

Agency:	USGS	Site ID:	420630075544601
Site Name:	BM 165		
Dec. Latitude:	42.10841		
Dec. Longitude:	-75.91297		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	842.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19670101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	25.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-05-01	21.00	

C17
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS0749812**

Agency:	USGS	Site ID:	420627075544802
Site Name:	BM 593		
Dec. Latitude:	42.10758		
Dec. Longitude:	-75.9127		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	Not Reported		
Hydrologic code:	02050103		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	Not Reported		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

C18
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS0749810**

Agency:	USGS	Site ID:	420627075544701
Site Name:	BM 156		
Dec. Latitude:	42.10758		
Dec. Longitude:	-75.9127		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	842.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19670101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	118		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-08-01	18.00	

C19
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS0749811**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	420627075544703
Site Name:	BM 597		
Dec. Latitude:	42.10758		
Dec. Longitude:	-75.9127		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	842.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	196706	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	20		
Hole depth:	29	Source:	reporting agency (generally USGS)
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-08-04	19.03	

20
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS0749968**

Agency:	USGS	Site ID:	420702075543201
Site Name:	BM 222		
Dec. Latitude:	42.1173		
Dec. Longitude:	-75.90853		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	838.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	46.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1947-10-01	7.00	

C21
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749876**

Agency:	USGS	Site ID:	420629075545101
Site Name:	BM 161		
Dec. Latitude:	42.10813		
Dec. Longitude:	-75.91381		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	840.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	106		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1946-02-01	20.00	

C22
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749813**

Agency:	USGS	Site ID:	420627075545101
Site Name:	BM 157		
Dec. Latitude:	42.10758		
Dec. Longitude:	-75.91381		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	837.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19670101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	115		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-05-01	16.00	

C23
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749869**

Agency:	USGS	Site ID:	420625075545001
Site Name:	BM 153		
Dec. Latitude:	42.10702		
Dec. Longitude:	-75.91353		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	836.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19670101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	24.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-06-01	17.00	

D24
West
1/2 - 1 Mile
Lower

FED USGS **USGS0749889**

Agency:	USGS	Site ID:	420634075545501
Site Name:	BM 177		
Dec. Latitude:	42.10952		
Dec. Longitude:	-75.91492		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	838.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19600101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	9.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-10-01	5.00	

D25
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749886**

Agency:	USGS	Site ID:	420632075545501
Site Name:	BM 176		
Dec. Latitude:	42.10896		
Dec. Longitude:	-75.91492		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	840.00		
Hydrologic code:	02050102		
Topographic:	Undulating		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	49.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Seafevel
1966-04-01	31.00	

26
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749866**

Agency:	USGS	Site ID:	420622075545101
Site Name:	BM 588		
Dec. Latitude:	42.10619		
Dec. Longitude:	-75.91381		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	Not Reported		
Hydrologic code:	02050103		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	Not Reported		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

D27
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749825**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency:	USGS	Site ID:	420631075545701
Site Name:	BM 173		
Dec. Latitude:	42.10869		
Dec. Longitude:	-75.91547		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	842.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19470101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	123		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-04-01	35.00	

E28
SW
1/2 - 1 Mile
Lower

FED USGS **USGS0749860**

Agency:	USGS	Site ID:	420615075544501
Site Name:	BM 145		
Dec. Latitude:	42.10424		
Dec. Longitude:	-75.91214		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	845.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	46.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-10-01	19.00	

E29
SW
1/2 - 1 Mile
Lower

FED USGS **USGS0749798**

Agency:	USGS	Site ID:	420616075544701
Site Name:	BM 146		
Dec. Latitude:	42.10452		
Dec. Longitude:	-75.9127		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	845.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19500101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	438		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

30
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749872**

Agency:	USGS	Site ID:	420626075545701
Site Name:	BM 155		
Dec. Latitude:	42.1073		
Dec. Longitude:	-75.91547		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	838.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19670101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	107		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-06-01	20.00	

31
NE
1/2 - 1 Mile
Lower

FED USGS **USGS0750038**

Agency:	USGS	Site ID:	420707075534601
Site Name:	BM 230		
Dec. Latitude:	42.11869		
Dec. Longitude:	-75.89575		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	846.00		
Hydrologic code:	02050102		
Topographic:	Alluvial or marine terrace		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	35.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-04-01	11.00	

F32
SE
1/2 - 1 Mile
Lower

NY WELLS **NYWS003455**

Well Id:	NY0301651	System name:	BINGHAMTON (C)
System Id:	002	Well name:	RANNEY WELL
Type:	WL	Active?:	A
County:	BROOME COUNTY	Latitude:	420612.12
Longitude:	755339.96	Slec_type_:	AC
Agency:	BINGHAMTON, CITY OF - MAYOR		
Address:	GOVERNMENTAL PLAZA 38 HAWLEY STREET		
City/State/Zip:	BINGHAMTON NY 13901		
Phone:	607-772-7001		

F33
SE
1/2 - 1 Mile
Lower

FED USGS **USGS0749854**

Agency:	USGS	Site ID:	420612075534101
Site Name:	BM 142		
Dec. Latitude:	42.10341		
Dec. Longitude:	-75.89436		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	837.00		
Hydrologic code:	02050101		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19400101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		

Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	23.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

34
West
1/2 - 1 Mile
Lower

FED USGS **USGS0749883**

Agency:	USGS	Site ID:	420631075550501
Site Name:	BM 174		
Dec. Latitude:	42.10869		
Dec. Longitude:	-75.9177		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	843.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19510101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	100		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1951-09-01	37.00	

35
West
1/2 - 1 Mile
Lower

FED USGS **USGS0749884**

Agency:	USGS	Site ID:	420631075551301
Site Name:	BM 175		
Dec. Latitude:	42.10869		
Dec. Longitude:	-75.91992		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	838.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19410101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	109		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-04-01	29.00	

36
West
1/2 - 1 Mile
Lower

FED USGS **USGS0749881**

Agency:	USGS	Site ID:	420630075551801
Site Name:	BM 166		
Dec. Latitude:	42.10841		
Dec. Longitude:	-75.92131		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	840.00		
Hydrologic code:	02050102		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19580101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	110		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1958-05-01	30.00	

G37
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749804**

Agency:	USGS	Site ID:	420618075551301
Site Name:	BM 150		
Dec. Latitude:	42.10508		
Dec. Longitude:	-75.91992		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	850.00		
Hydrologic code:	02050102		
Topographic:	Alluvial or marine terrace		
Site Type:	Ground-water other than Spring		
Const Date:	19380101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	106		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1938-06-01	25.00	

38
West
1/2 - 1 Mile
Lower

FED USGS **USGS0749899**

Agency:	USGS	Site ID:	420639075552001
Site Name:	BM 190		
Dec. Latitude:	42.11091		
Dec. Longitude:	-75.92186		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	852.00		
Hydrologic code:	02050102		
Topographic:	Alluvial or marine terrace		
Site Type:	Ground-water other than Spring		
Const Date:	19460101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	49.8		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-10-01	48.00	

G39
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749861**

Agency:	USGS	Site ID:	420615075551201
Site Name:	BM 660		
Dec. Latitude:	42.10424		
Dec. Longitude:	-75.91964		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	857.80		
Hydrologic code:	Not Reported		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	44.0		
Hole depth:	47.0	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-05-02	32.91		1994-08-23	34.88	

H40
SW
1/2 - 1 Mile
Lower

FED USGS **USGS0749757**

Agency:	USGS	Site ID:	420559075545301
Site Name:	BM 115		
Dec. Latitude:	42.0998		
Dec. Longitude:	-75.91436		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	850.00		
Hydrologic code:	02050102		
Topographic:	Alluvial or marine terrace		
Site Type:	Ground-water other than Spring		
Const Date:	19450101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	341SONY		
Aquifer type:	Not Reported		
Well depth:	585		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1945-09-01	39.00	

41
East
1/2 - 1 Mile
Higher

FED USGS **USGS0749912**

Agency:	USGS	Site ID:	420646075531201
Site Name:	Local number Bm-100 Binghamton NY		
Dec. Latitude:	42.11285		
Dec. Longitude:	-75.88631		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	851.05		
Hydrologic code:	02050103		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	19460823	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	112SDGV		
Aquifer type:	Confined single aquifer		
Well depth:	52.3		
Hole depth:	53.0	Source:	Not Reported
Project no:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1650

Date	Feet below Surface	Feet to Sealevel
1995-08-31	12.32	
1995-08-25	12.22	
1995-08-15	12.09	
1995-08-05	12.11	
1995-07-15	11.90	
1995-07-05	11.80	
1995-06-25	11.63	
1995-06-15	11.47	
1995-06-05	11.33	
1995-05-25	11.25	
1995-05-15	11.11	
1995-05-05	11.01	
1995-04-28	10.90	
1995-04-20	10.82	
1995-04-10	11.11	
1995-03-30	11.03	
1995-03-25	10.98	
1995-03-15	11.01	
1995-03-05	11.17	
1995-02-28	11.29	
1995-02-20	11.39	
1995-02-10	11.23	
1995-01-31	11.07	
1995-01-25	11.11	
1995-01-15	11.52	
1995-01-05	11.48	
1994-12-30	11.58	
1994-12-20	11.44	
1994-12-10	11.49	
1994-12-01	11.80	
1994-10-31	11.73	
1994-10-20	11.55	
1994-10-10	11.38	
1994-09-30	11.24	
1994-09-20	11.28	
1994-09-10	11.02	
1994-08-31	10.79	
1994-08-20	10.92	
1994-08-10	11.25	
1994-07-31	11.24	
1994-07-20	11.10	
1994-07-10	10.95	
1994-06-30	10.84	
1994-06-20	10.81	
1994-06-10	11.03	
1994-05-31	10.74	
1994-05-20	10.37	
1994-05-10	10.30	
1994-04-30	9.60	
1994-04-20	9.04	
1994-04-10	8.86	
1994-03-31	8.53	
1994-03-20	9.91	
1994-03-10	10.49	
1994-02-28	10.72	

Date	Feet below Surface	Feet to Sealevel
1995-08-30	12.32	
1995-08-20	12.11	
1995-08-10	12.04	
1995-07-31	12.09	
1995-07-10	11.88	
1995-06-30	11.71	
1995-06-20	11.52	
1995-06-10	11.42	
1995-05-31	11.25	
1995-05-20	11.20	
1995-05-10	11.07	
1995-04-30	10.93	
1995-04-25	10.85	
1995-04-15	10.91	
1995-04-05	11.10	
1995-03-28	11.03	
1995-03-20	10.97	
1995-03-10	11.12	
1995-03-01	11.23	
1995-02-25	11.36	
1995-02-15	11.36	
1995-02-05	11.09	
1995-01-30	11.08	
1995-01-20	11.36	
1995-01-10	11.52	
1994-12-31	11.57	
1994-12-25	11.46	
1994-12-15	11.43	
1994-12-05	11.74	
1994-11-01	11.69	
1994-10-25	11.67	
1994-10-15	11.49	
1994-10-05	11.28	
1994-09-25	11.38	
1994-09-15	11.14	
1994-09-05	10.84	
1994-08-25	10.88	
1994-08-15	11.24	
1994-08-05	11.19	
1994-07-25	11.17	
1994-07-15	11.05	
1994-07-05	10.84	
1994-06-25	10.92	
1994-06-15	10.85	
1994-06-05	10.87	
1994-05-25	10.53	
1994-05-15	10.18	
1994-05-05	9.78	
1994-04-25	9.28	
1994-04-15	8.93	
1994-04-05	8.66	
1994-03-25	9.03	
1994-03-15	10.12	
1994-03-05	10.72	
1994-02-25	10.72	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1994-02-20	11.18	
1994-02-10	11.13	
1994-01-31	11.02	
1994-01-20	11.26	
1994-01-10	11.09	
1994-01-03	10.90	
1993-12-25	10.64	
1993-12-15	10.74	
1993-12-05	10.84	
1993-11-29	11.07	
1993-10-31	11.96	
1993-10-25	12.00	
1993-10-15	11.96	
1993-10-05	11.81	
1993-09-27	11.88	
1993-09-20	11.91	
1993-09-10	11.77	
1993-08-31	11.81	
1993-08-20	11.67	
1993-08-10	11.79	
1993-07-31	11.86	
1993-07-25	11.80	
1993-07-15	11.57	
1993-07-05	11.40	
1993-06-25	11.13	
1993-06-15	10.85	
1993-06-05	10.67	
1993-05-25	10.14	
1993-05-15	9.46	
1993-05-05	8.65	
1993-04-28	8.13	
1993-04-20	8.44	
1993-04-10	9.45	
1993-03-31	10.16	
1993-03-20	11.45	
1993-03-10	11.45	
1993-02-28	11.49	
1993-02-20	11.36	
1993-02-10	11.19	
1993-01-31	10.91	
1993-01-20	10.79	
1993-01-10	10.80	
1992-12-31	10.92	
1992-12-14	11.15	
1992-12-05	10.99	
1992-11-20	11.16	
1992-11-10	11.17	
1992-10-31	11.35	
1992-10-20	11.46	
1992-10-10	11.65	
1992-03-25	11.37	
1992-03-15	11.41	
1992-03-05	11.60	
1992-02-25	11.65	
1992-02-15	11.77	

Date	Feet below Surface	Feet to Sealevel
1994-02-15	11.17	
1994-02-05	10.98	
1994-01-25	11.32	
1994-01-15	11.15	
1994-01-05	10.93	
1993-12-31	10.81	
1993-12-20	10.83	
1993-12-10	10.74	
1993-11-30	11.03	
1993-11-01	11.88	
1993-10-29	12.01	
1993-10-20	11.96	
1993-10-10	11.91	
1993-09-30	11.72	
1993-09-25	11.91	
1993-09-15	11.91	
1993-09-05	11.78	
1993-08-25	11.73	
1993-08-15	11.79	
1993-08-05	11.85	
1993-07-30	11.88	
1993-07-20	11.67	
1993-07-10	11.48	
1993-06-30	11.27	
1993-06-20	11.01	
1993-06-10	10.75	
1993-05-31	10.44	
1993-05-20	9.82	
1993-05-10	9.08	
1993-04-30	8.20	
1993-04-25	8.20	
1993-04-15	8.54	
1993-04-05	9.65	
1993-03-25	11.23	
1993-03-15	11.51	
1993-03-05	11.51	
1993-02-25	11.48	
1993-02-15	11.31	
1993-02-05	11.07	
1993-01-25	10.89	
1993-01-15	10.73	
1993-01-05	10.81	
1992-12-25	11.05	
1992-12-10	11.09	
1992-11-30	10.96	
1992-11-15	11.13	
1992-11-05	11.21	
1992-10-25	11.38	
1992-10-15	11.50	
1992-10-05	11.67	
1992-03-20	11.35	
1992-03-10	11.56	
1992-02-29	11.62	
1992-02-20	11.67	
1992-02-10	11.76	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1992-02-05	11.63	
1992-01-25	11.58	
1992-01-15	11.65	
1992-01-05	11.61	
1991-12-25	11.68	
1991-12-15	11.62	
1991-12-05	11.67	
1991-11-25	11.80	
1991-11-15	12.27	
1991-11-05	12.38	
1991-09-25	12.17	
1991-09-15	12.24	
1991-09-05	12.08	
1991-08-25	11.87	
1991-08-15	12.09	
1991-08-05	12.10	
1991-07-25	12.03	
1991-07-15	11.88	
1991-07-05	11.67	
1991-06-25	11.49	
1991-06-15	11.24	
1991-06-05	11.05	
1991-05-25	10.72	
1991-05-15	10.40	
1991-05-05	10.19	
1991-04-25	10.14	
1991-04-15	10.40	
1991-04-05	10.34	
1991-03-25	10.40	
1991-03-15	10.33	
1991-03-05	10.50	
1991-02-25	10.60	
1991-02-15	10.69	
1991-02-05	10.68	
1991-01-25	10.39	
1991-01-15	10.42	
1991-01-05	10.11	
1990-12-25	10.33	
1990-12-15	10.51	
1990-12-05	10.47	
1990-11-25	10.42	
1990-11-15	10.31	
1990-11-05	10.62	
1990-10-25	10.65	
1990-10-15	11.52	
1990-10-05	11.72	
1990-09-25	11.67	
1990-09-15	11.50	
1990-09-05	11.39	
1990-08-10	11.31	
1990-07-31	11.35	
1990-07-20	11.18	
1990-07-10	11.11	
1990-06-30	11.08	
1990-06-20	11.01	

Date	Feet below Surface	Feet to Sealevel
1992-01-31	11.53	
1992-01-20	11.54	
1992-01-10	11.61	
1991-12-31	11.69	
1991-12-20	11.65	
1991-12-10	11.63	
1991-11-30	11.74	
1991-11-20	12.28	
1991-11-10	12.39	
1991-10-31	12.32	
1991-09-20	12.24	
1991-09-10	12.15	
1991-08-31	11.95	
1991-08-20	11.97	
1991-08-10	12.07	
1991-07-31	12.04	
1991-07-20	11.95	
1991-07-10	11.76	
1991-06-30	11.58	
1991-06-20	11.36	
1991-06-10	11.15	
1991-05-31	10.89	
1991-05-20	10.57	
1991-05-10	10.26	
1991-04-30	10.05	
1991-04-20	10.51	
1991-04-10	10.38	
1991-03-31	10.32	
1991-03-20	10.36	
1991-03-10	10.30	
1991-02-28	10.67	
1991-02-20	10.69	
1991-02-10	10.66	
1991-01-31	10.55	
1991-01-20	10.22	
1991-01-10	10.26	
1990-12-31	10.22	
1990-12-20	10.51	
1990-12-10	10.38	
1990-11-30	10.59	
1990-11-20	10.34	
1990-11-10	10.61	
1990-10-31	10.56	
1990-10-20	11.34	
1990-10-10	11.74	
1990-09-30	11.68	
1990-09-20	11.60	
1990-09-10	11.48	
1990-08-31	11.35	
1990-08-05	11.38	
1990-07-25	11.27	
1990-07-15	11.08	
1990-07-05	10.99	
1990-06-25	11.13	
1990-06-15	10.94	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1990-06-10	10.80	
1990-05-31	10.59	
1990-05-20	10.60	
1990-05-10	10.81	
1990-04-30	10.72	
1990-04-20	10.58	
1990-04-10	10.56	
1990-03-31	10.73	
1990-03-20	10.75	
1990-03-10	10.61	
1990-02-28	10.37	
1990-02-20	10.35	
1990-02-10	10.79	
1990-01-31	11.41	
1990-01-20	11.94	
1990-01-10	11.92	
1989-12-31	11.88	
1989-12-20	11.74	
1989-12-10	11.55	
1989-11-30	11.43	
1989-11-20	11.36	
1989-11-10	11.59	
1989-10-31	11.54	
1989-10-20	11.80	
1989-10-10	11.93	
1989-09-30	11.76	
1989-09-20	11.79	
1989-09-10	11.81	
1989-08-31	11.65	
1989-08-20	11.41	
1989-08-10	11.25	
1989-07-31	11.10	
1989-07-20	10.90	
1989-07-10	10.64	
1989-06-30	10.60	
1989-06-20	10.47	
1989-06-10	10.60	
1989-05-31	10.44	
1989-05-20	10.18	
1989-05-10	10.69	
1989-04-30	11.17	
1989-04-20	11.03	
1989-04-10	11.11	
1989-03-31	11.61	
1989-03-20	12.09	
1989-03-10	12.03	
1989-02-28	11.97	
1989-01-30	11.97	
1988-11-28	11.50	
1988-09-29	11.72	
1988-07-28	11.49	
1988-05-26	10.52	
1988-03-30	11.23	
1988-01-28	11.67	
1987-11-25	11.78	

Date	Feet below Surface	Feet to Sealevel
1990-06-05	10.69	
1990-05-25	10.59	
1990-05-15	10.76	
1990-05-05	10.75	
1990-04-25	10.63	
1990-04-15	10.49	
1990-04-05	10.67	
1990-03-25	10.71	
1990-03-15	10.72	
1990-03-05	10.52	
1990-02-25	10.36	
1990-02-15	10.69	
1990-02-05	11.00	
1990-01-25	11.72	
1990-01-15	11.98	
1990-01-05	11.94	
1989-12-25	11.80	
1989-12-15	11.63	
1989-12-05	11.49	
1989-11-25	11.41	
1989-11-15	11.57	
1989-11-05	11.58	
1989-10-25	11.55	
1989-10-15	11.97	
1989-10-05	11.83	
1989-09-25	11.68	
1989-09-15	11.87	
1989-09-05	11.74	
1989-08-25	11.53	
1989-08-15	11.31	
1989-08-05	11.17	
1989-07-25	11.01	
1989-07-15	10.81	
1989-07-05	10.68	
1989-06-25	10.48	
1989-06-15	10.64	
1989-06-05	10.55	
1989-05-25	10.27	
1989-05-15	10.23	
1989-05-05	11.09	
1989-04-25	11.08	
1989-04-15	11.01	
1989-04-05	11.32	
1989-03-25	11.94	
1989-03-15	12.05	
1989-03-05	11.98	
1989-02-27	11.90	
1988-12-29	11.89	
1988-10-27	11.78	
1988-08-29	11.84	
1988-06-28	11.26	
1988-04-28	11.24	
1988-02-26	11.24	
1987-12-29	11.35	
1987-10-29	11.78	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1987-09-28	11.64	
1987-07-29	11.71	
1987-05-27	11.00	
1987-03-27	10.81	
1987-01-27	10.36	
1986-11-26	10.90	
1986-09-24	11.55	
1986-07-29	10.91	
1986-05-28	10.52	
1986-03-27	9.91	
1986-01-29	11.35	
1985-11-27	11.13	
1985-10-21	11.40	
1985-10-07	11.28	
1985-09-25	11.34	
1985-09-15	11.39	
1985-09-05	12.08	
1985-08-25	11.95	
1985-08-15	11.97	
1985-08-05	11.75	
1985-07-25	11.80	
1985-07-15	11.77	
1985-07-05	11.87	
1985-06-20	11.81	
1985-06-10	11.77	
1985-05-31	11.76	
1985-05-20	11.77	
1985-05-10	11.76	
1985-04-25	11.55	
1985-04-15	11.40	
1985-04-05	11.25	
1985-03-25	11.24	
1985-03-15	11.32	
1985-03-05	11.78	
1985-02-25	11.83	
1985-02-15	11.79	
1985-02-05	11.74	
1985-01-25	11.47	
1985-01-15	11.23	
1985-01-05	11.21	
1984-12-25	11.47	
1984-12-15	11.60	
1984-12-05	11.75	
1984-11-25	12.27	
1984-11-15	12.14	
1984-11-05	12.14	
1984-10-25	12.17	
1984-10-15	12.04	
1984-10-05	11.95	
1984-09-25	11.77	
1984-09-15	11.60	
1984-09-05	11.50	
1984-08-25	11.28	
1984-08-15	11.20	
1984-08-05	10.92	
1987-08-28	12.00	
1987-06-26	11.41	
1987-04-28	10.09	
1987-02-25	11.31	
1986-12-30	10.57	
1986-10-30	11.68	
1986-08-28	11.00	
1986-06-25	10.54	
1986-04-28	10.50	
1986-02-25	10.68	
1985-12-30	11.02	
1985-10-28	11.53	
1985-10-14	11.37	
1985-10-01	11.26	
1985-09-20	11.25	
1985-09-10	12.16	
1985-08-31	11.98	
1985-08-20	11.98	
1985-08-10	11.91	
1985-07-31	11.82	
1985-07-20	11.76	
1985-07-10	11.94	
1985-06-25	13.18	
1985-06-15	11.80	
1985-06-05	11.74	
1985-05-25	11.79	
1985-05-15	11.75	
1985-05-05	11.76	
1985-04-20	11.50	
1985-04-10	11.28	
1985-03-31	11.23	
1985-03-20	11.26	
1985-03-10	11.56	
1985-02-28	11.79	
1985-02-20	11.87	
1985-02-10	11.81	
1985-01-31	11.61	
1985-01-20	11.30	
1985-01-10	11.26	
1984-12-31	11.36	
1984-12-20	11.56	
1984-12-10	11.66	
1984-11-30	12.05	
1984-11-20	12.20	
1984-11-10	12.14	
1984-10-31	12.17	
1984-10-20	12.13	
1984-10-10	12.00	
1984-09-30	11.87	
1984-09-20	11.65	
1984-09-10	11.54	
1984-08-31	11.44	
1984-08-20	11.25	
1984-08-10	11.09	
1984-07-31	10.81	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1984-07-25	10.88	
1984-07-15	10.59	
1984-07-05	10.56	
1984-06-25	10.41	
1984-06-15	10.15	
1984-06-05	9.76	
1984-05-25	9.94	
1984-05-15	9.83	
1984-05-05	9.63	
1984-04-25	9.19	
1984-04-15	9.51	
1984-04-05	10.22	
1984-03-25	10.62	
1984-03-15	10.53	
1984-03-05	10.28	
1984-02-25	10.30	
1984-02-15	11.05	
1984-02-05	11.15	
1984-01-25	11.14	
1984-01-15	10.89	
1984-01-05	10.47	
1983-12-25	10.28	
1983-12-15	10.63	
1983-12-05	11.77	
1983-11-25	11.99	
1983-11-15	12.22	
1983-11-05	12.30	
1983-10-25	12.29	
1983-10-15	12.29	
1983-10-05	12.24	
1983-09-25	12.14	
1983-09-15	12.15	
1983-09-05	11.98	
1983-08-25	11.80	
1983-08-15	11.74	
1983-08-05	11.55	
1983-07-25	11.27	
1983-07-15	11.02	
1983-07-05	10.63	
1983-06-25	10.71	
1983-06-15	10.37	
1983-06-05	9.96	
1983-05-25	9.38	
1983-05-15	8.66	
1983-05-05	8.30	
1983-04-25	9.20	
1983-04-15	10.64	
1983-04-05	11.21	
1983-03-25	11.23	
1983-03-15	11.27	
1983-03-05	11.49	
1983-02-25	11.32	
1983-02-15	11.25	
1983-02-05	11.33	
1983-01-25	11.89	
1984-07-20	10.71	
1984-07-10	10.49	
1984-06-30	10.53	
1984-06-20	10.27	
1984-06-10	9.93	
1984-05-31	9.78	
1984-05-20	9.83	
1984-05-10	9.80	
1984-04-30	9.45	
1984-04-20	9.31	
1984-04-10	9.55	
1984-03-31	10.65	
1984-03-20	10.56	
1984-03-10	10.44	
1984-02-29	10.22	
1984-02-20	10.47	
1984-02-10	11.22	
1984-01-31	11.17	
1984-01-20	11.08	
1984-01-10	10.69	
1983-12-31	10.46	
1983-12-20	10.46	
1983-12-10	11.75	
1983-11-30	11.80	
1983-11-20	12.14	
1983-11-10	12.30	
1983-10-31	12.32	
1983-10-20	12.29	
1983-10-10	12.31	
1983-09-30	12.17	
1983-09-20	12.25	
1983-09-10	12.08	
1983-08-31	11.92	
1983-08-20	11.76	
1983-08-10	11.65	
1983-07-31	11.45	
1983-07-20	11.20	
1983-07-10	10.85	
1983-06-30	10.57	
1983-06-20	10.56	
1983-06-10	10.20	
1983-05-31	9.73	
1983-05-20	9.03	
1983-05-10	8.42	
1983-04-30	8.89	
1983-04-20	9.73	
1983-04-10	11.09	
1983-03-31	11.20	
1983-03-20	11.23	
1983-03-10	11.48	
1983-02-28	11.41	
1983-02-20	11.31	
1983-02-10	11.24	
1983-01-31	11.79	
1983-01-20	11.94	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1983-01-15	11.79	
1983-01-05	11.78	
1982-12-25	12.03	
1982-12-15	12.07	
1982-12-05	11.94	
1982-11-25	12.10	
1982-11-15	12.12	
1982-11-05	12.27	
1982-10-25	12.29	
1982-10-15	12.15	
1982-10-05	12.10	
1982-09-25	11.97	
1982-09-15	11.78	
1982-09-05	11.59	
1982-08-05	11.05	
1982-07-25	10.65	
1982-07-15	10.33	
1982-07-05	10.01	
1982-06-25	10.65	
1982-06-15	10.57	
1982-06-05	10.77	
1982-05-25	11.15	
1982-05-15	10.94	
1982-05-05	10.65	
1982-04-25	10.55	
1982-04-15	10.69	
1982-04-05	10.89	
1982-03-25	10.98	
1982-03-15	11.34	
1982-03-05	11.47	
1982-02-25	11.32	
1982-02-15	11.19	
1982-02-05	11.23	
1982-01-25	11.45	
1982-01-15	11.31	
1982-01-05	11.41	
1981-12-25	11.49	
1981-12-15	11.47	
1981-12-05	11.43	
1981-11-25	11.43	
1981-11-15	11.45	
1981-11-05	11.45	
1981-10-25	12.02	
1981-10-15	12.01	
1981-10-05	12.14	
1981-09-25	12.26	
1981-09-15	12.19	
1981-09-05	12.26	
1981-08-25	12.19	
1981-08-15	11.95	
1981-08-05	11.87	
1981-07-25	11.74	
1981-07-15	11.55	
1981-07-05	11.36	
1981-06-25	11.32	

Date	Feet below Surface	Feet to Sealevel
1983-01-10	11.79	
1982-12-31	11.78	
1982-12-20	11.99	
1982-12-10	11.99	
1982-11-30	11.99	
1982-11-20	12.14	
1982-11-10	12.13	
1982-10-31	12.34	
1982-10-20	12.25	
1982-10-10	12.15	
1982-09-30	12.01	
1982-09-20	11.84	
1982-09-10	11.67	
1982-08-31	11.59	
1982-07-31	10.88	
1982-07-20	10.54	
1982-07-10	10.16	
1982-06-30	10.35	
1982-06-20	10.55	
1982-06-10	10.59	
1982-05-31	11.04	
1982-05-20	11.02	
1982-05-10	10.81	
1982-04-30	10.59	
1982-04-20	10.58	
1982-04-10	10.74	
1982-03-31	10.94	
1982-03-20	11.09	
1982-03-10	11.44	
1982-02-28	11.42	
1982-02-20	11.20	
1982-02-10	11.13	
1982-01-31	11.60	
1982-01-20	11.43	
1982-01-10	11.27	
1981-12-31	11.45	
1981-12-20	11.50	
1981-12-10	11.44	
1981-11-30	11.44	
1981-11-20	11.41	
1981-11-10	11.45	
1981-10-31	11.57	
1981-10-20	12.02	
1981-10-10	12.02	
1981-09-30	12.25	
1981-09-20	12.23	
1981-09-10	12.19	
1981-08-31	12.23	
1981-08-20	12.10	
1981-08-10	11.94	
1981-07-31	11.84	
1981-07-20	11.67	
1981-07-10	11.49	
1981-06-30	11.34	
1981-06-20	11.37	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1981-06-15	11.51	
1981-06-05	11.48	
1981-05-25	11.30	
1981-05-15	11.34	
1981-05-05	11.45	
1981-04-25	11.59	
1981-04-15	11.59	
1981-04-05	11.57	
1981-03-25	11.39	
1981-03-15	11.15	
1981-03-05	11.03	
1981-02-25	11.23	
1981-02-15	11.70	
1981-02-05	12.10	
1981-01-25	12.21	
1981-01-15	12.09	
1981-01-05	11.91	
1980-12-25	11.76	
1980-12-15	11.75	
1980-12-05	11.89	
1980-11-25	12.13	
1980-11-15	12.26	
1980-11-05	12.22	
1980-10-25	12.46	
1980-10-15	12.36	
1980-10-05	12.26	
1980-09-25	12.26	
1980-09-15	12.13	
1980-09-05	12.16	
1980-08-25	12.10	
1980-08-15	12.05	
1980-08-05	11.90	
1980-07-25	11.80	
1980-07-15	11.61	
1980-07-05	11.60	
1980-06-25	11.57	
1980-06-15	11.47	
1980-06-05	11.27	
1980-05-25	11.04	
1980-05-15	10.80	
1980-05-05	10.46	
1980-04-25	10.47	
1980-04-15	10.65	
1980-04-05	11.06	
1980-03-25	11.76	
1980-03-15	12.25	
1980-03-05	12.36	
1980-02-25	12.40	
1980-02-15	12.29	
1980-02-05	12.24	
1980-01-25	12.10	
1980-01-15	12.05	
1980-01-05	11.88	
1979-12-25	11.88	
1979-12-15	11.85	
1981-06-10	11.48	
1981-05-31	11.35	
1981-05-20	11.30	
1981-05-10	11.35	
1981-04-30	11.55	
1981-04-20	11.59	
1981-04-10	11.59	
1981-03-31	11.52	
1981-03-20	11.26	
1981-03-10	11.12	
1981-02-28	11.12	
1981-02-20	11.51	
1981-02-10	12.14	
1981-01-31	12.28	
1981-01-20	12.13	
1981-01-10	12.02	
1980-12-31	11.85	
1980-12-20	11.76	
1980-12-10	11.82	
1980-11-30	11.90	
1980-11-20	12.28	
1980-11-10	12.25	
1980-10-31	12.22	
1980-10-20	12.38	
1980-10-10	12.32	
1980-09-30	12.26	
1980-09-20	12.23	
1980-09-10	12.09	
1980-08-31	12.20	
1980-08-20	12.09	
1980-08-10	11.96	
1980-07-31	11.86	
1980-07-20	11.76	
1980-07-10	11.58	
1980-06-30	11.60	
1980-06-20	11.47	
1980-06-10	11.35	
1980-05-31	11.14	
1980-05-20	10.90	
1980-05-10	10.65	
1980-04-30	10.51	
1980-04-20	10.51	
1980-04-10	10.96	
1980-03-31	11.41	
1980-03-20	12.07	
1980-03-10	12.27	
1980-02-29	12.37	
1980-02-20	12.34	
1980-02-10	12.26	
1980-01-31	12.21	
1980-01-20	12.06	
1980-01-10	11.95	
1979-12-31	11.87	
1979-12-20	11.86	
1979-12-10	11.76	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1979-12-05	11.69	
1979-11-25	12.05	
1979-11-15	11.89	
1979-11-05	11.93	
1979-10-25	11.96	
1979-10-15	11.87	
1979-10-05	11.98	
1979-09-25	12.07	
1979-09-15	11.93	
1979-09-05	12.13	
1979-08-25	12.10	
1979-08-15	11.92	
1979-08-05	11.76	
1979-07-25	11.53	
1979-07-15	11.80	
1979-07-05	11.59	
1979-06-25	11.34	
1979-06-15	11.03	
1979-06-05	10.84	
1979-05-25	11.06	
1979-05-15	10.99	
1979-05-05	10.77	
1979-04-25	10.63	
1979-04-15	10.44	
1979-04-05	10.61	
1979-03-25	10.36	
1979-03-15	10.21	
1979-03-05	10.80	
1979-02-25	11.08	
1979-02-15	10.97	
1979-02-05	10.56	
1979-01-25	10.98	
1979-01-15	11.30	
1979-01-05	11.63	
1978-12-25	12.23	
1978-12-15	12.32	
1978-12-05	12.41	
1978-11-25	12.35	
1978-11-15	12.29	
1978-11-05	12.21	
1978-10-25	12.25	
1978-10-15	12.26	
1978-10-05	12.35	
1978-09-25	12.22	
1978-09-15	12.09	
1978-09-05	11.81	
1978-08-25	11.71	
1978-08-15	11.52	
1978-08-05	12.12	
1978-07-25	11.95	
1978-07-15	11.74	
1978-07-05	11.55	
1978-06-25	11.40	
1978-06-15	11.29	
1978-06-05	11.26	

Date	Feet below Surface	Feet to Sealevel
1979-11-30	11.73	
1979-11-20	11.94	
1979-11-10	11.86	
1979-10-31	12.09	
1979-10-20	11.91	
1979-10-10	11.88	
1979-09-30	12.09	
1979-09-20	11.96	
1979-09-10	11.92	
1979-08-31	12.11	
1979-08-20	11.98	
1979-08-10	11.90	
1979-07-31	11.60	
1979-07-20	11.51	
1979-07-10	11.63	
1979-06-30	11.41	
1979-06-20	11.20	
1979-06-10	10.95	
1979-05-31	10.89	
1979-05-20	11.03	
1979-05-10	10.83	
1979-04-30	10.69	
1979-04-20	10.51	
1979-04-10	10.65	
1979-03-31	10.55	
1979-03-20	10.31	
1979-03-10	10.37	
1979-02-28	11.05	
1979-02-20	11.02	
1979-02-10	10.78	
1979-01-31	10.56	
1979-01-20	11.30	
1979-01-10	11.53	
1978-12-31	12.34	
1978-12-20	12.32	
1978-12-10	12.42	
1978-11-30	12.45	
1978-11-20	12.36	
1978-11-10	12.25	
1978-10-31	12.21	
1978-10-20	12.22	
1978-10-10	12.27	
1978-09-30	12.29	
1978-09-20	12.20	
1978-09-10	11.91	
1978-08-31	11.86	
1978-08-20	11.55	
1978-08-10	11.52	
1978-07-31	12.08	
1978-07-20	11.87	
1978-07-10	11.57	
1978-06-30	11.50	
1978-06-20	11.29	
1978-06-10	11.29	
1978-05-31	11.12	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1978-05-25	10.94	
1978-05-15	10.70	
1978-05-05	10.34	
1978-04-25	9.95	
1978-04-15	9.67	
1978-04-05	9.58	
1978-03-25	9.98	
1978-03-15	10.75	
1978-03-05	10.44	
1978-02-25	10.44	
1978-02-15	10.15	
1978-02-05	9.56	
1978-01-25	10.09	
1978-01-15	9.69	
1978-01-05	9.93	
1977-12-25	9.55	
1977-12-15	10.07	
1977-12-05	9.97	
1977-11-25	10.07	
1977-11-15	9.69	
1977-11-05	9.95	
1977-10-25	9.54	
1977-10-15	10.47	
1977-10-05	10.65	
1977-09-25	11.15	
1977-09-15	12.30	
1977-09-05	12.26	
1977-08-25	12.23	
1977-08-15	12.11	
1977-08-05	12.23	
1977-07-25	12.10	
1977-07-15	11.92	
1977-07-05	11.83	
1977-06-25	11.54	
1977-06-15	11.29	
1977-06-05	11.13	
1977-05-25	10.95	
1977-05-15	10.68	
1977-05-05	10.61	
1977-04-25	10.67	
1977-04-15	10.40	
1977-04-05	10.20	
1977-03-25	10.67	
1977-03-15	11.45	
1977-03-05	11.82	
1977-02-25	12.40	
1977-02-15	12.40	
1977-02-05	12.41	
1977-01-15	11.91	
1977-01-05	11.90	
1976-12-25	11.66	
1976-12-15	11.49	
1976-12-05	11.28	
1976-11-25	11.15	
1976-11-05	10.84	
1978-05-20	10.89	
1978-05-10	10.47	
1978-04-30	10.21	
1978-04-20	9.74	
1978-04-10	9.57	
1978-03-31	9.66	
1978-03-20	10.36	
1978-03-10	10.44	
1978-02-28	10.44	
1978-02-20	10.15	
1978-02-10	9.56	
1978-01-31	9.56	
1978-01-20	9.93	
1978-01-10	9.69	
1977-12-31	9.66	
1977-12-20	9.68	
1977-12-10	10.10	
1977-11-30	10.23	
1977-11-20	9.91	
1977-11-10	9.96	
1977-10-31	9.70	
1977-10-20	9.70	
1977-10-10	10.47	
1977-09-30	10.74	
1977-09-20	11.69	
1977-09-10	12.28	
1977-08-31	12.26	
1977-08-20	12.20	
1977-08-10	12.09	
1977-07-31	12.20	
1977-07-20	12.06	
1977-07-10	11.84	
1977-06-30	11.70	
1977-06-20	11.45	
1977-06-10	11.22	
1977-05-31	10.95	
1977-05-20	10.78	
1977-05-10	10.55	
1977-04-30	10.59	
1977-04-20	10.49	
1977-04-10	10.24	
1977-03-31	10.36	
1977-03-20	11.12	
1977-03-10	11.68	
1977-02-28	12.00	
1977-02-20	12.40	
1977-02-10	12.42	
1977-01-31	11.91	
1977-01-10	11.90	
1976-12-31	11.86	
1976-12-20	11.63	
1976-12-10	11.32	
1976-11-30	11.26	
1976-11-10	10.84	
1976-10-31	10.86	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1976-10-25	11.02	
1976-10-15	11.28	
1976-10-05	11.97	
1976-09-25	11.79	
1976-09-15	11.70	
1976-09-05	11.49	
1976-08-25	11.28	
1976-08-15	11.23	
1976-08-05	11.64	
1976-07-25	11.66	
1976-07-15	11.43	
1976-07-05	11.41	
1976-06-25	11.65	
1976-06-15	11.53	
1976-06-05	11.49	
1976-05-25	11.25	
1976-05-15	11.19	
1976-05-05	11.12	
1976-04-25	11.08	
1976-04-15	10.86	
1976-04-05	10.66	
1976-03-25	10.44	
1976-03-15	10.08	
1976-03-05	10.18	
1976-02-25	10.39	
1976-02-15	11.06	
1976-02-05	11.15	
1976-01-25	11.59	
1976-01-15	11.58	
1975-11-15	10.13	
1975-11-05	9.66	
1975-10-25	9.47	
1975-10-15	10.13	
1975-10-05	9.86	
1975-09-25	10.85	
1975-09-15	11.14	
1975-09-05	11.08	
1975-08-25	11.19	
1975-08-15	11.25	
1975-08-05	11.04	
1975-07-25	11.05	
1975-07-15	11.12	
1975-07-05	10.91	
1975-06-25	10.74	
1975-06-15	10.53	
1975-06-05	10.53	
1975-05-25	10.30	
1975-05-15	10.14	
1975-05-05	10.39	
1975-04-25	10.31	
1975-04-15	10.06	
1975-04-05	9.99	
1975-03-25	10.06	
1975-03-15	10.10	
1975-03-05	10.04	

Date	Feet below Surface	Feet to Sealevel
1976-10-20	11.24	
1976-10-10	11.46	
1976-09-30	11.83	
1976-09-20	11.68	
1976-09-10	11.67	
1976-08-31	11.42	
1976-08-20	11.21	
1976-08-10	11.41	
1976-07-31	11.69	
1976-07-20	11.50	
1976-07-10	11.42	
1976-06-30	11.59	
1976-06-20	11.65	
1976-06-10	11.47	
1976-05-31	11.38	
1976-05-20	11.25	
1976-05-10	11.15	
1976-04-30	11.08	
1976-04-20	11.01	
1976-04-10	10.68	
1976-03-31	10.67	
1976-03-20	10.27	
1976-03-10	10.05	
1976-02-29	10.33	
1976-02-20	10.59	
1976-02-10	11.16	
1976-01-31	11.15	
1976-01-20	11.58	
1975-11-20	10.25	
1975-11-10	9.76	
1975-10-31	9.49	
1975-10-20	9.67	
1975-10-10	9.93	
1975-09-30	10.04	
1975-09-20	11.19	
1975-09-10	11.13	
1975-08-31	11.14	
1975-08-20	11.19	
1975-08-10	11.13	
1975-07-31	10.95	
1975-07-20	11.13	
1975-07-10	11.02	
1975-06-30	10.88	
1975-06-20	10.67	
1975-06-10	10.52	
1975-05-31	10.37	
1975-05-20	10.15	
1975-05-10	10.23	
1975-04-30	10.36	
1975-04-20	10.13	
1975-04-10	9.98	
1975-03-31	10.05	
1975-03-20	10.13	
1975-03-10	9.95	
1975-02-28	10.06	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1975-02-25	10.25	
1975-02-15	10.74	
1975-02-05	10.52	
1975-01-25	10.66	
1975-01-15	10.69	
1975-01-05	10.94	
1974-12-25	10.90	
1974-12-15	11.06	
1974-12-05	11.26	
1974-11-25	11.27	
1974-11-15	11.47	
1974-11-05	11.74	
1974-10-25	11.64	
1974-10-15	11.61	
1974-10-05	11.47	
1974-09-25	11.28	
1974-09-15	11.12	
1974-09-05	11.10	
1974-08-25	11.30	
1974-08-15	11.25	
1974-08-05	11.13	
1974-07-25	11.06	
1974-07-15	11.05	
1974-07-05	10.91	
1974-06-25	10.87	
1974-06-15	10.73	
1974-06-05	10.50	
1974-05-25	10.27	
1974-05-15	10.07	
1974-05-05	9.79	
1974-04-25	9.59	
1974-04-15	9.52	
1974-04-05	9.77	
1974-03-25	10.18	
1974-01-31	12.78	
1974-01-20	12.80	
1974-01-10	12.79	
1973-12-31	12.79	
1973-12-20	12.74	
1973-12-10	12.79	
1973-11-30	12.79	
1973-11-20	12.78	
1973-11-10	12.76	
1973-10-31	12.76	
1973-10-20	12.60	
1973-10-10	12.41	
1973-09-30	12.26	
1973-09-20	12.20	
1973-09-10	12.17	
1973-08-31	12.11	
1973-08-20	11.84	
1973-08-10	11.67	
1973-07-31	11.56	
1973-07-20	11.29	
1973-07-10	11.30	

Date	Feet below Surface	Feet to Sealevel
1975-02-20	10.71	
1975-02-10	10.64	
1975-01-31	10.61	
1975-01-20	10.66	
1975-01-10	10.92	
1974-12-31	10.91	
1974-12-20	10.92	
1974-12-10	11.11	
1974-11-30	11.26	
1974-11-20	11.29	
1974-11-10	11.71	
1974-10-31	11.73	
1974-10-20	11.62	
1974-10-10	11.49	
1974-09-30	11.28	
1974-09-20	11.28	
1974-09-10	11.09	
1974-08-31	11.28	
1974-08-20	11.27	
1974-08-10	11.13	
1974-07-31	11.07	
1974-07-20	11.05	
1974-07-10	10.94	
1974-06-30	10.91	
1974-06-20	10.73	
1974-06-10	10.61	
1974-05-31	10.33	
1974-05-20	10.18	
1974-05-10	9.98	
1974-04-30	9.70	
1974-04-20	9.52	
1974-04-10	9.72	
1974-03-31	10.10	
1974-03-20	10.38	
1974-01-25	12.79	
1974-01-15	12.79	
1974-01-05	12.79	
1973-12-25	12.79	
1973-12-15	12.79	
1973-12-05	12.79	
1973-11-25	12.79	
1973-11-15	12.77	
1973-11-05	12.76	
1973-10-25	12.66	
1973-10-15	12.53	
1973-10-05	12.40	
1973-09-25	12.23	
1973-09-15	12.19	
1973-09-05	12.16	
1973-08-25	11.96	
1973-08-15	11.82	
1973-08-05	11.61	
1973-07-25	11.36	
1973-07-15	11.29	
1973-07-05	11.30	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1973-06-30	11.30	
1973-06-20	10.99	
1973-06-10	10.99	
1973-05-31	10.99	
1973-05-05	11.26	
1973-04-25	11.26	
1973-04-15	11.26	
1973-04-05	11.26	
1973-03-25	11.30	
1973-03-15	11.30	
1973-03-05	11.20	
1973-02-25	10.86	
1973-02-15	10.71	
1973-02-05	10.71	
1973-01-25	10.42	
1973-01-15	9.84	
1973-01-05	9.80	
1972-12-25	9.47	
1972-12-15	9.53	
1972-12-05	10.02	
1972-11-25	10.17	
1972-11-15	10.55	
1972-11-05	11.68	
1972-10-25	11.80	
1972-10-15	11.62	
1972-10-05	11.65	
1972-09-25	11.48	
1972-09-15	11.40	
1972-09-05	11.11	
1972-08-25	10.63	
1972-08-15	10.34	
1972-08-05	10.13	
1972-07-25	9.92	
1972-07-15	9.50	
1972-07-05	8.93	
1972-06-25	9.13	
1972-06-15	10.43	
1972-06-05	10.14	
1972-05-25	9.84	
1972-05-15	9.74	
1972-05-05	10.25	
1972-04-15	10.53	
1972-04-05	10.44	
1972-03-25	10.38	
1972-03-15	10.89	
1972-03-05	11.11	
1972-02-25	11.77	
1972-02-15	11.72	
1972-02-05	11.79	
1972-01-25	11.65	
1972-01-15	11.73	
1972-01-05	11.64	
1971-12-25	11.91	
1971-12-15	11.92	
1971-12-05	12.40	

Date	Feet below Surface	Feet to Sealevel
1973-06-25	11.05	
1973-06-15	10.99	
1973-06-05	10.99	
1973-05-25	10.99	
1973-04-30	11.26	
1973-04-20	11.26	
1973-04-10	11.26	
1973-03-31	11.29	
1973-03-20	11.30	
1973-03-10	11.30	
1973-02-28	11.09	
1973-02-20	10.71	
1973-02-10	10.71	
1973-01-31	10.42	
1973-01-20	10.03	
1973-01-10	9.80	
1972-12-31	9.53	
1972-12-20	9.63	
1972-12-10	9.67	
1972-11-30	10.02	
1972-11-20	10.22	
1972-11-10	10.91	
1972-10-31	11.83	
1972-10-20	11.76	
1972-10-10	11.63	
1972-09-30	11.54	
1972-09-20	11.45	
1972-09-10	11.24	
1972-08-31	10.83	
1972-08-20	10.42	
1972-08-10	10.09	
1972-07-31	10.23	
1972-07-20	9.77	
1972-07-10	9.20	
1972-06-30	8.93	
1972-06-20	10.43	
1972-06-10	10.22	
1972-05-31	10.11	
1972-05-20	9.74	
1972-05-10	9.94	
1972-04-30	10.28	
1972-04-10	10.53	
1972-03-31	10.34	
1972-03-20	10.61	
1972-03-10	11.10	
1972-02-29	11.81	
1972-02-20	11.59	
1972-02-10	11.87	
1972-01-31	11.72	
1972-01-20	11.66	
1972-01-10	11.66	
1971-12-31	11.83	
1971-12-20	11.91	
1971-12-10	11.94	
1971-11-30	12.40	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1971-11-25	12.53	
1971-11-05	12.66	
1971-10-25	12.64	
1971-10-15	12.51	
1971-09-30	12.47	
1971-09-20	12.33	
1971-09-10	12.10	
1971-08-31	12.16	
1971-08-20	12.23	
1971-08-10	12.17	
1971-07-31	12.12	
1971-07-20	12.03	
1971-07-10	11.99	
1971-06-30	11.92	
1971-06-20	11.76	
1971-06-10	11.52	
1971-05-31	11.24	
1971-05-20	11.08	
1971-05-10	11.06	
1971-04-30	10.95	
1971-04-20	10.81	
1971-04-10	10.72	
1971-03-31	10.50	
1971-03-20	10.28	
1971-03-10	10.65	
1971-02-28	10.89	
1971-02-20	11.50	
1971-02-10	12.13	
1971-01-20	11.93	
1971-01-10	11.85	
1970-12-20	12.08	
1970-12-10	12.09	
1970-11-25	12.11	
1970-11-15	12.14	
1970-11-05	12.04	
1970-10-25	11.94	
1970-10-15	11.92	
1970-10-05	11.82	
1970-09-25	11.73	
1970-09-15	11.61	
1970-09-05	11.31	
1970-08-25	11.70	
1970-07-31	11.32	
1970-07-20	11.27	
1970-07-10	11.44	
1970-06-30	11.75	
1970-06-20	11.57	
1970-06-10	11.38	
1970-05-31	11.14	
1970-05-20	10.91	
1970-05-10	10.68	
1970-04-30	10.48	
1970-01-25	12.00	
1969-12-20	11.77	
1969-12-10	12.03	

Date	Feet below Surface	Feet to Sealevel
1971-11-20	12.51	
1971-10-31	12.66	
1971-10-20	12.58	
1971-10-05	12.50	
1971-09-25	12.41	
1971-09-15	12.22	
1971-09-05	12.17	
1971-08-25	12.27	
1971-08-15	12.20	
1971-08-05	12.09	
1971-07-25	12.16	
1971-07-15	11.94	
1971-07-05	11.96	
1971-06-25	11.87	
1971-06-15	11.65	
1971-06-05	11.39	
1971-05-25	11.11	
1971-05-15	11.09	
1971-05-05	10.97	
1971-04-25	10.87	
1971-04-15	10.73	
1971-04-05	10.68	
1971-03-25	10.36	
1971-03-15	10.46	
1971-03-05	10.69	
1971-02-25	11.17	
1971-02-15	11.59	
1971-02-05	12.01	
1971-01-15	11.86	
1971-01-05	11.95	
1970-12-15	12.13	
1970-12-05	12.04	
1970-11-20	12.10	
1970-11-10	12.17	
1970-10-31	12.04	
1970-10-20	11.96	
1970-10-10	11.89	
1970-09-30	11.74	
1970-09-20	11.66	
1970-09-10	11.42	
1970-08-31	11.44	
1970-08-20	11.52	
1970-07-25	11.24	
1970-07-15	11.40	
1970-07-05	11.48	
1970-06-25	11.65	
1970-06-15	11.49	
1970-06-05	11.24	
1970-05-25	11.03	
1970-05-15	10.89	
1970-05-05	10.55	
1970-04-25	10.41	
1970-01-05	11.10	
1969-12-15	11.76	
1969-11-30	11.97	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1969-11-20	12.19	
1969-11-10	12.25	
1969-10-29	12.57	
1969-10-15	12.60	
1969-10-04	12.53	
1969-09-20	12.40	
1969-09-10	12.24	
1969-08-31	12.10	
1969-08-20	11.97	
1969-07-31	11.93	
1969-07-15	12.05	
1969-06-25	11.77	
1969-06-15	11.73	
1969-06-05	11.70	
1969-05-20	11.44	
1969-05-10	11.22	
1969-04-10	11.04	
1969-03-25	11.59	
1969-03-15	11.64	
1969-03-05	11.49	
1969-02-25	11.37	
1969-02-04	11.16	
1969-01-24	11.45	
1968-12-31	11.07	
1968-12-20	11.40	
1968-12-05	11.22	
1968-11-19	11.43	
1968-11-10	11.87	
1968-10-31	12.18	
1968-10-20	12.14	
1968-10-10	12.03	
1968-09-30	11.86	
1968-09-20	11.60	
1968-09-05	12.12	
1968-08-25	11.88	
1968-08-15	11.70	
1968-08-05	11.47	
1968-07-25	11.16	
1968-07-18	11.01	
1968-07-10	10.75	
1968-06-30	10.61	
1968-06-20	10.78	
1968-06-05	11.08	
1968-05-24	11.23	
1968-05-10	11.65	
1967-10-05	11.69	
1966-10-19	11.99	
1966-04-25	10.97	
1954-08-04	11.70	
1953-09-04	11.90	
1952-10-23	12.26	
1951-08-16	11.60	
1949-12-12	11.99	
1948-07-09	11.00	
1947-01-30	12.17	

Date	Feet below Surface	Feet to Sealevel
1969-11-15	12.18	
1969-11-05	12.48	
1969-10-20	12.57	
1969-10-10	12.55	
1969-09-25	12.48	
1969-09-15	12.33	
1969-09-05	12.15	
1969-08-25	12.04	
1969-08-05	11.95	
1969-07-20	11.82	
1969-06-30	11.84	
1969-06-20	11.73	
1969-06-10	11.74	
1969-05-31	11.60	
1969-05-15	11.47	
1969-04-15	11.03	
1969-04-05	11.35	
1969-03-20	11.68	
1969-03-10	11.52	
1969-02-28	11.45	
1969-02-20	11.29	
1969-01-31	11.29	
1969-01-15	11.43	
1968-12-24	11.42	
1968-12-08	11.33	
1968-11-30	11.35	
1968-11-15	11.78	
1968-11-05	12.20	
1968-10-25	12.09	
1968-10-15	12.12	
1968-10-05	11.95	
1968-09-25	11.70	
1968-09-10	12.02	
1968-08-31	12.03	
1968-08-20	11.79	
1968-08-10	11.56	
1968-07-31	11.35	
1968-07-20	11.03	
1968-07-15	10.92	
1968-07-05	10.62	
1968-06-25	10.84	
1968-06-10	11.05	
1968-05-30	11.07	
1968-05-15	11.39	
1968-04-25	11.39	
1967-05-01	10.45	
1966-05-10	10.55	
1955-07-19	11.19	
1953-12-06	11.96	
1953-05-04	10.26	
1952-05-21	10.38	
1950-04-26	9.56	
1949-04-21	10.92	
1947-10-29	12.50	
1946-10-13	12.83	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

H42
SW
1/2 - 1 Mile
Lower

FED USGS **USGS0749758**

Agency:	USGS	Site ID:	420559075545401
Site Name:	BM 116		
Dec. Latitude:	42.0998		
Dec. Longitude:	-75.91464		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	848.00		
Hydrologic code:	02050102		
Topographic:	Alluvial or marine terrace		
Site Type:	Ground-water other than Spring		
Const Date:	19410101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	341DVNNU		
Aquifer type:	Not Reported		
Well depth:	725		
Hole depth:	*Not Reported*	*Source:*	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1945-07-01	20.00	

I43
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS0749751**

Agency:	USGS	Site ID:	420551075543901
Site Name:	BM 101		
Dec. Latitude:	42.09758		
Dec. Longitude:	-75.91047		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	855.00		
Hydrologic code:	02050101		
Topographic:	Alluvial or marine terrace		
Site Type:	Ground-water other than Spring		
Const Date:	19680101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	112OTSH		
Aquifer type:	Not Reported		
Well depth:	70.0		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1968-11-01	29.00	

J44
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749802**

Agency:	USGS	Site ID:	420617075551801
Site Name:	BM 659		
Dec. Latitude:	42.1048		
Dec. Longitude:	-75.92131		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	852.80		
Hydrologic code:	Not Reported		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	43.0		
Hole depth:	46.0	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-05-02	31.09		1994-08-23	33.88	

I45
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS0749748**

Agency:	USGS	Site ID:	420550075544001
Site Name:	BM 725		
Dec. Latitude:	42.0973		
Dec. Longitude:	-75.91075		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	Not Reported		
Hydrologic code:	02050103		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	Not Reported		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
J46 **WSW** **1/2 - 1 Mile** **Lower**		**FED USGS**	**USGS0749799**

Agency:	USGS	Site ID:	420616075551901
Site Name:	BM 147		
Dec. Latitude:	42.10452		
Dec. Longitude:	-75.92158		
Coord Sys:	NAD83		
State:	NY		
County:	Broome County		
Altitude:	855.00		
Hydrologic code:	02050102		
Topographic:	Alluvial or marine terrace		
Site Type:	Ground-water other than Spring		
Const Date:	19390101	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	110QRNR		
Aquifer type:	Not Reported		
Well depth:	110		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-01-01	35.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NY Radon

Radon Test Results

Zip	Num Sites	< 4 Pci/L	>= 4 Pci/L	>= 20 Pci/L	Avg > 4 Pci/L	Max Pci/L
13901	319	101 (31.7%)	180 (56.4%)	38 (11.9%)	10.66	106.3
13901	1	0 (0%)	1 (100%)	0 (0%)	13.80	13.8
13901	2	2 (100%)	0 (0%)	0 (0%)	0.80	0.9
13901	1	0 (0%)	1 (100%)	0 (0%)	4.80	4.8
13901	1	0 (0%)	0 (0%)	1 (100%)	28.50	28.5
13901	1	0 (0%)	1 (100%)	0 (0%)	11.80	11.8

Federal EPA Radon Zone for BROOME County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for BROOME COUNTY, NY

Number of sites tested: 162

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.300 pCi/L	85%	14%	1%
Basement	2.240 pCi/L	72%	26%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

New York State Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961
Coverages are based on official New York State Freshwater Wetlands Maps as described in Article 24-0301 of the Environmental Conservation Law.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

New York Facility and Manifest Data
Source: NYSDEC
Telephone: 518-457-6585
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

BINGHAMTON, N. Y.

61

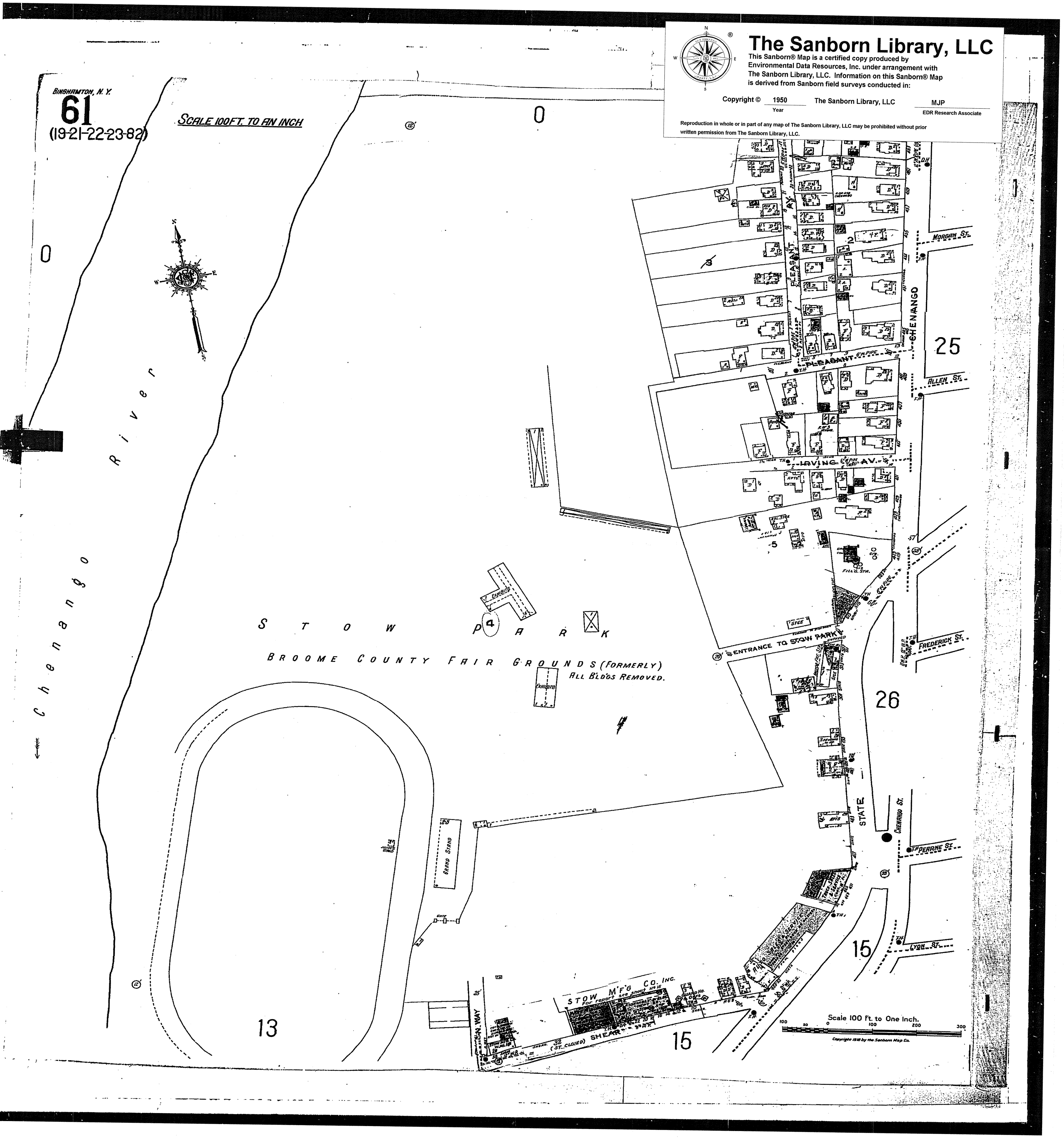
(19-21-22-23-82)

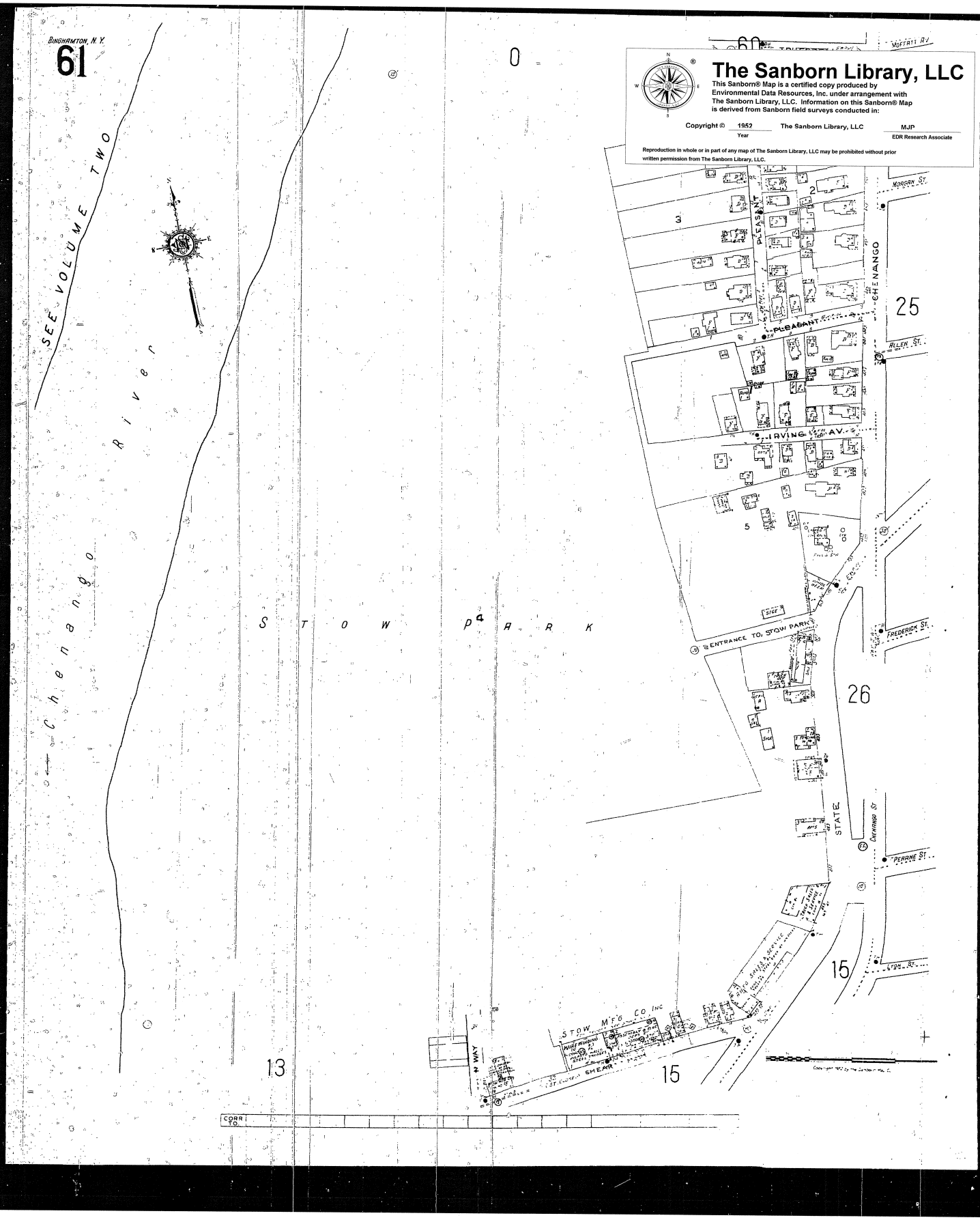
SCALE 100 FT. TO AN INCH

12

0

RIVER





BINGHAMTON, N.Y.

61

SEE VOLUME TWO

Chenango River

POOL

BATH HO

DEPT. S.

CHEM. EXTRACT.

DEPT. S.

BINGHAMTON PLAZA SHOPPING CENTER

BOWLING

REST.

CAR WASH

PLEASANT AV.

CHENANGO

MORGAN ST.

ALLEN ST.

IRVING AV.

FREDERICK

STATE

W. STATE

BINGHAMTON CITY INCINERATOR

6' WIRE FENCE

STOW MFG. CO. INC.

SHEAR

LYON ST.

25

26

15

13

2

3

4

5

6

CORR TO

NOTES

1) PREMISES SOURCES OF TITLE BEING THE FOLLOWING DOCUMENTS RECORDED IN THE BROOME COUNTY CLERK'S OFFICE.
   A) L.1047 P.1069 JANUARY 12, 1962
   B) L.1079 P.526 JUNE 4, 1964
   C) L.1087 P.83 JANUARY 7, 1965
   D) L.1184 P.1136 APRIL 20, 1972
   E) L.1254 P.627 MARCH 28, 1977

2) SUBJECT TO THE FOLLOWING EASEMENTS OF RECORD AS RECORDED IN THE BROOME COUNTY CLERK'S OFFICE;
   A) AN EASEMENT GRANTED TO THE STATE OF NEW YORK INCLUDING A "PRIVATE ROADWAY", "DRAINAGE STRUCTURES AND DITCHES", "WALLS AND LEVEES" AND "THE RIGHT AT ALL TIMES OF INGRESS, EGRESS AND RECRESS BY THE STATE OF NEW YORK, ITS ASSIGNS AND/OR THEIR AGENTS IN THE IMPROVEMENT FOR PURPOSES CONNECTED WITH THE FLOOD CONTROL PROJECTS" ON FEBRUARY 25, 1941, MODIFIED BY A PARTIAL RELEASE OF THE EASEMENT IN L.1175 P.47 ON SEPTEMBER 25, 1971. (SEE REFERENCE DATA 4)
   B) 20' STORM WATER SEWER EASEMENT GRANTED TO THE CITY OF BINGHAMTON IN L.1047 P.1069 ON JANUARY 12, 1962.
   C) 50' WIDE INGRESS, EGRESS & RECRESS EASEMENT AND R.O.W. GRANTED IN L.1059 P.281 ON OCTOBER 19, 1962.
   D) INGRESS, EGRESS AND RECRESS EASEMENT AND R.O.W. GRANTED TO THE CITY OF BINGHAMTON IN L.1059 P.283 ON OCTOBER 19, 1962.
   E) ELECTRIC & COMMUNICATION R.O.W. AND BUILDING HEIGHT RESTRICTION GRANTED TO NYSEG IN L.1058 P.263 ON JULY 18, 1963.
   F) 50' WIDE ELECTRIC & COMMUNICATION R.O.W. GRANTED TO NYSEG IN L.1069 P.570 ON AUGUST 22, 1963.
   G) PIPE LINE EASEMENT GRANTED TO COLUMBIA GAS OF NEW YORK, INC. IN L.1085 P.524 ON NOVEMBER 16, 1964.
   H) 30' WIDE POLE LINE EASEMENT & R.O.W. GRANTED TO NYSEG IN L.1097 P.1086 ON OCTOBER 27, 1965.
   I) PIPE LINE EASEMENT GRANTED TO COLUMBIA GAS OF NEW YORK, INC. IN L.1137 P.609 ON OCTOBER 30, 1970.
   J) 30' WIDE ELECTRIC & COMMUNICATION POLE LINE EASEMENT & R.O.W. GRANTED TO NYSEG IN L.1210 P.1050 ON FEBRUARY 1, 1974.

3) SUBJECT TO ANY AND ALL OTHER EASEMENTS OF RECORD AND/OR AS FOUND IN THE FIELD.

4) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE TO THE PROPERTY.

UNDERGROUND UTILITIES NOTE

THE USER OF THIS MAP IS CAUTIONED THAT THE UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA ARE SHOWN ON THIS DRAWING.

THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK & SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM HIS WORK. CONTRACTOR SHALL NOTIFY DIG SAFELY NY (FORMERLY UFPO) 1-800-962-7962 IN ACCORDANCE WITH 16 NYCRR PART 753.

REFERENCE DATA

1) "MAP OF BAYLESS PURCHASE IN THE CITY OF BINGHAMTON, BROOME COUNTY, N.Y." PREPARED BY W. MENTZ ING. & SURVEYOR, DATED AUGUST 27, 1870. RECORDED IN THE BROOME COUNTY CLERK'S OFFICE DECEMBER 21, 1870 IN BOOK 3F DEEDS L.84 P.261.

2) MAP ENTITLED "TOPOGRAPHY, CITY OF BINGHAMTON, NEW YORK" SHOWING STOW PARK IN APPROXIMATELY 514, RECORDED WITH THE CITY OF BINGHAMTON ENGINEERING DEPARTMENT.

3) MAP ENTITLED "RESUBDIVISION OF DEWITT C. BREWER PROPERTY, COR OF STATE & CHENANGO STS, BINGHAMTON, N.Y." PREPARED BY HOADLEY & GILES CIVIL ENGINEERS, DATED DECEMBER 8, 1921, RECORDED IN THE BROOME COUNTY CLERK'S OFFICE DECEMBER 15, 1921 IN MAP BOOK 1, PAGE 325 AS MAP NO. 215 AND RE-RECORDED IN PLAT CABINET 2, SLEEVE 171.

4) MAP ENTITLED "STATE OF NEW YORK DEPARTMENT OF PUBLIC WORKS, FLOOD CONTROL PROJECTS, FLOOD CONTROL PROJECT NO. BINGHAMTON FLOOD PROTECTION, MAP NO. 14-I-R, PARCEL NO. 198" DATED SEPTEMBER 20, 1940 AND FILED IN THE BROOME COUNTY CLERK'S OFFICE JANUARY 30, 1942.

5) MAP ENTITLED "PROPERTY MAP, STOW-CHENANGO REDEVELOPMENT PROJECT, BINGHAMTON, BROOME COUNTY, NEW YORK" DATED OCTOBER 28, 1960, PREPARED BY THE CITY OF BINGHAMTON ENGINEERING DEPARTMENT, RECORDED IN THE BROOME COUNTY CLERK'S OFFICE NOVEMBER 17, 1960 IN MAP BOOK 19 PAGE 448 AS MAP NO. 1552.

6) MAP ENTITLED "PARCEL 70 RE CONVEYED BY THE CITY OF BINGHAMTON, NEW YORK, (STOW FLATS CONVEYANCE TO SALESI)" PREPARED BY C.W. COLEMAN, DATED OCTOBER 4, 1962, FILED JUNE 15, 1964 WITH THE CITY CLERK, RECORDED WITH THE CITY OF BINGHAMTON ENGINEERING DEPARTMENT.

7) MAP ENTITLED "SURVEY FOR BINGHAMTON PLAZA, INC., CITY OF BINGHAMTON, COUNTY: BROOME, STATE: NEW YORK" PREPARED BY JOHN F. PURDY, DATED DECEMBER 12, 1969.

8) MAP ENTITLED "BINGHAMTON PLAZA, CITY OF BINGHAMTON - BROOME CO., N.Y." PREPARED BY D.W. HANNO & ASSOCIATES, DATED AUGUST 12, 1987, REVISED SEPTEMBER 3, 1987.

9) MAP ENTITLED "SURVEY FOR ROBERT J. SVIRABALAK, 3 WEST STATE STREET, CITY OF BINGHAMTON, BROOME COUNTY, NEW YORK STATE" PREPARED BY KEYSTONE ASSOCIATES ARCHITECTS, ENGINEERS & SURVEYORS, LLC, PROJECT NUMBER 53.24003, DATED NOVEMBER 25, 2003.

LEGEND

- 5/8" REBAR SET "KEYSTONE BING NY"
- IRON FOUND AND NOTED
- TMP TAX MAP NUMBER
- N/F NOW OR FORMERLY
- NYSEG NEW YORK STATE ELECTRIC & GAS
- R.O.W. RIGHT OF WAY
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- LIGHT POLE
- POLE ANCHOR GUY
- FIRE HYDRANT
- WATER VALVE
- UNKNOWN TYPE MANHOLE
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- CATCH BASIN
- 4.5' CONCRETE PLANTER
- GAS LINE MARKER
- GAS METER
- SIGNS
- OHW OVERHEAD UTILITIES
- UGC UNDERGROUND COMMUNICATIONS LINE
- GAS GAS LINE
- WL WATER LINE
- PROPERTY LINE
- TAX MAP LINE
- EASEMENT LINE
- CONCRETE
- ASPHALT
- GRAVEL

GRAPHIC SCALE

(IN FEET)
1 inch = 60 ft.

1,058,452 SQ.FT.
24.299± ACRES

DETAIL
1" = 20'

Unauthorized alteration or addition to a survey map bearing a Licensed Land Surveyor's seal is a violation of Section 7209, Subdivision 2, of the New York State Education Law.

Only boundary survey maps with the surveyor's embossed seal are true and correct copies of the surveyor's original work and opinion.

JOSEPH A. GRUMER
LS #050360

SURVEY OF LANDS OF
BINGHAMTON PLAZA, INC.
WEST STATE STREET
CITY OF BINGHAMTON — BROOME COUNTY — NEW YORK STATE

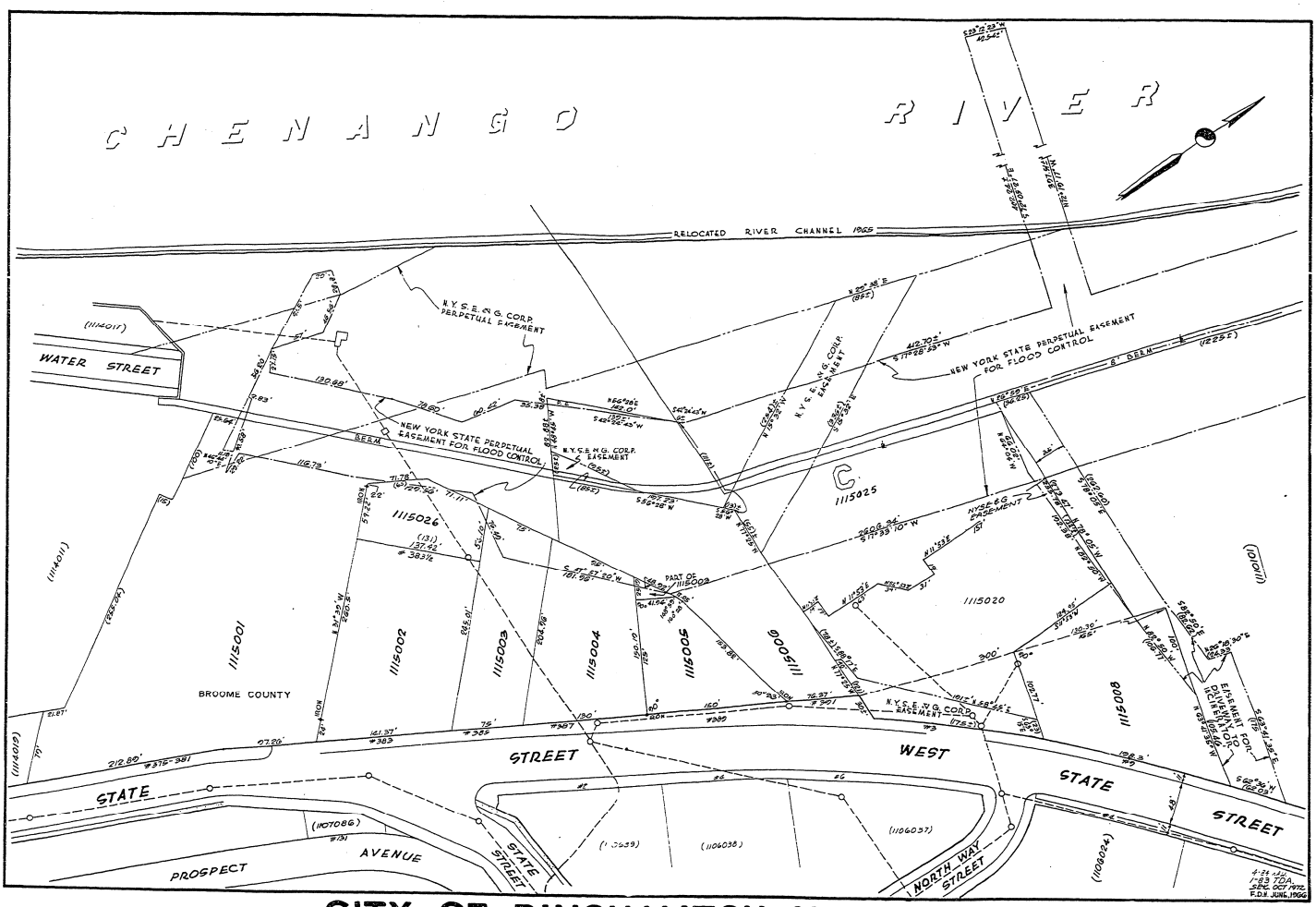
KEYSTONE ASSOCIATES
ARCHITECTS, ENGINEERS AND SURVEYORS, LLC

239-231 State Street
Fourth Floor
Binghamton, New York 13901
Phone: 607.722.1100
Fax: 607.722.2515

DATE OF FIELD WORK: 12/21/04	PROJECT NO. 100137104
DATE OF MAP: 1/18/05	FILE: 100137104B-1.DWG

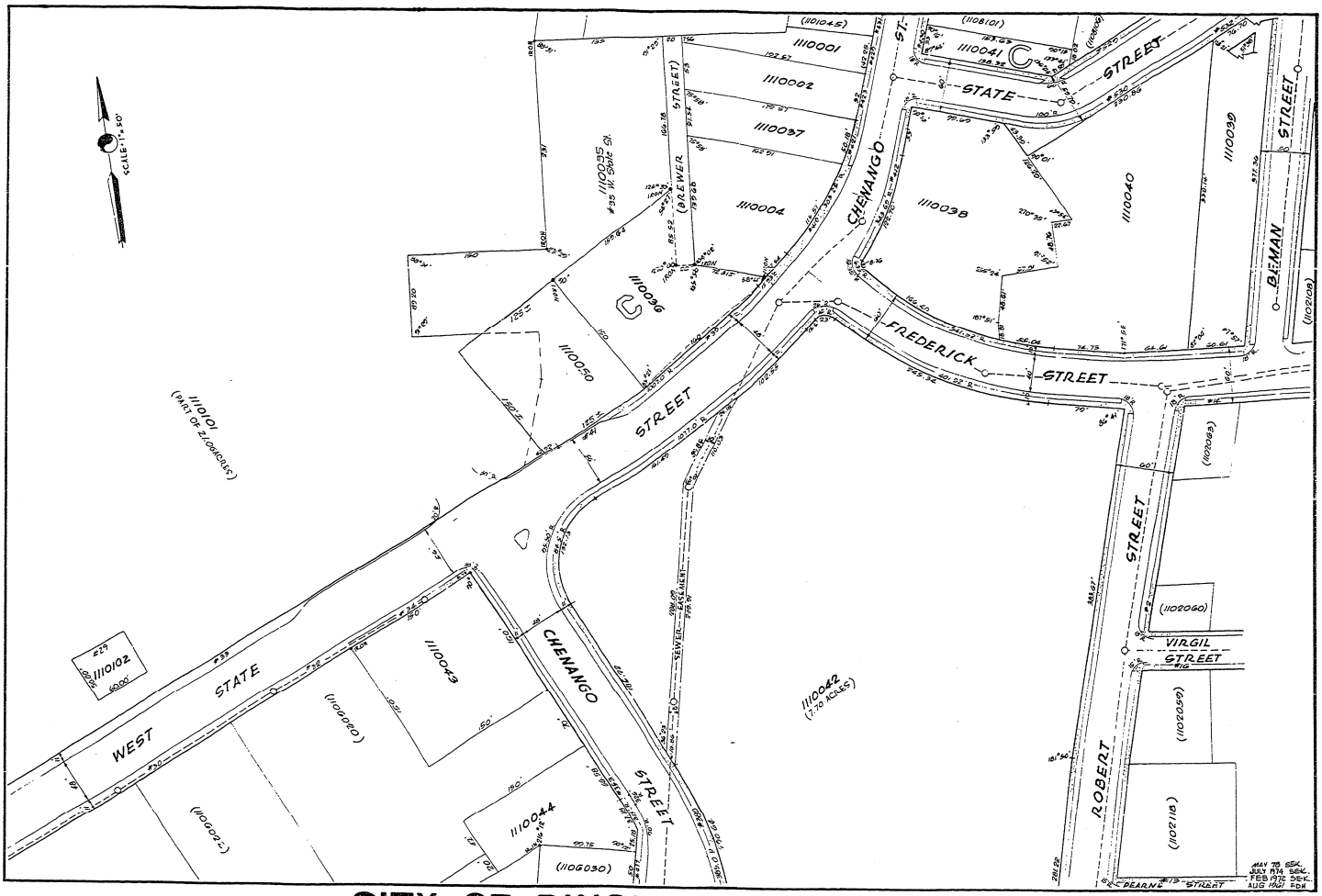
SHEET NO. B-1

P:\Projects\2004\100\100_37104\Civil\Land Projects\100_37104.dwg\100_37104B-1.dwg, 1/18/2005 2:48:00 PM, JAC

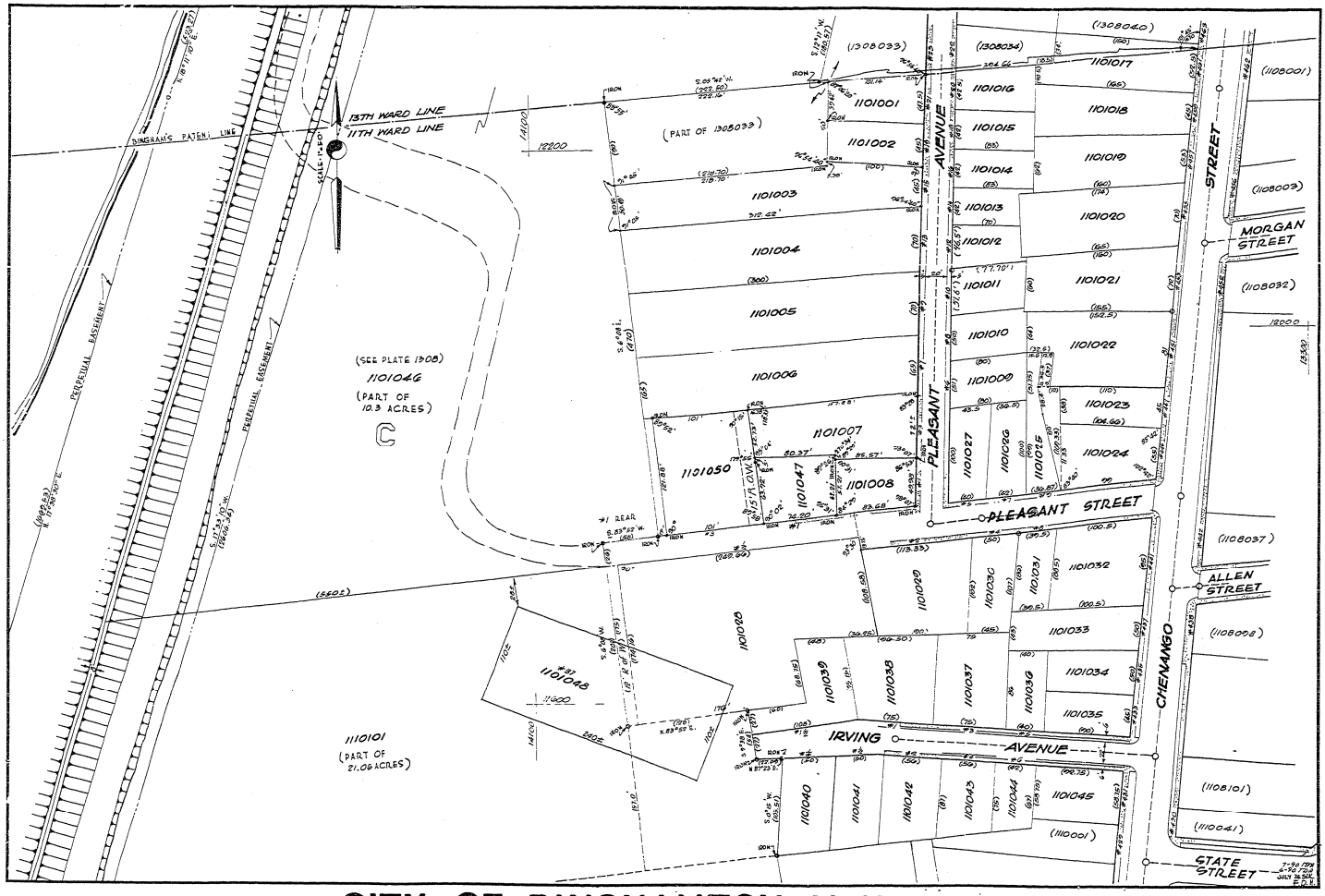


CITY OF BINGHAMTON N Y

PLATE III E



CITY OF BINGHAMTON N Y PLATE 1110



CITY OF BINGHAMTON N. Y. PLATE 1101

Delta
Environmental
Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

104 Jamesville Road
Syracuse, New York 13214 USA

315.445.0224 800.477.7411
Fax 315.445.0793

DRAFT. CONFIDENTIAL.
ATTORNEY-CLIENT COMMUNICATION

30 March 2005

Phil Bousquet, Esq.
Green & Seifter, PLLC
One Lincoln Center
Syracuse, NY 13202

Re: Limited Site Investigation Report
Binghamton Plaza
33 West State Street, Binghamton, New York
Delta Project No. 0502010P

Dear Mr. Bousquet:

During the week of 7 March 2005, Delta Environmental Consultants, Inc. (Delta) conducted a Limited Site Investigation at the above-referenced property to determine if evidence of hazardous substances and/or impacts to soils and groundwater are present at the site. The Limited Site Investigation focused on a number of areas of concern (AOCs) identified during Delta's file review and due diligence, which was completed prior to commencing this site investigation. These AOCs pertained to the historic use of the site as an industrial landfill, as well as a number of former tenants in the plaza, including a dry cleaner, auto parts store and paint store. In addition, AOCs were also identified based on neighboring properties including a former trash incinerator and gasoline station due south of the property, a gasoline station and dry cleaner east of the property (i.e., on the opposite side of West State Street) and a closed gasoline station and automobile repair facility along the northeastern property boundary. This report describes the tasks performed, summarizes the analytical results of sampling activities, and provides a summary of findings.

SCOPE OF WORK

Soil Boring Installations

Ten soil borings (GSB-1 to GSB-10) were installed at the site to evaluate subsurface soil conditions. Soil borings were installed to a maximum depth of 24 feet below grade using a direct-push drill rig. Soil samples were collected continuously from grade to completion at each boring location. Delta's on-site geologist visually inspected and screened all soil samples in the field with a Photoionization Detector (PID) to assess the potential presence of volatile organic compounds (VOCs). A summary and brief

description of the purpose of each boring is provided in the table below; soil boring locations are depicted on Figure 1.

Soil Boring ID	Total Depth of Boring (ft)	Purpose
GSB-1	20	Adjacent to the former incinerator south of the site.
GSB-2	20	Adjacent to a former gasoline station south of the site.
GSB-3	24	Downgradient of a dry cleaner and gasoline station east and southeast of the site.
GSB-4	11.8*	Central portion of the site.
GSB-5	15	Downgradient of a suspected former onsite dry cleaner location.
GSB-6	20	Adjacent to transformers and Lindsey Park; and on the downgradient side of the site.
GSB-7	17*	Near transformers and Lindsey Park; and downgradient of former onsite auto parts store.
GSB-8	8.2*	Downgradient of suspect offsite features.
GSB-9	20	Downgradient of former gasoline station and auto repair facility east of the site (Howard property).
GSB-10	24	North-central portion of the site downgradient of the Howard property.

* Refusal encountered

Soil descriptions, visual observations, odors, PID readings and other pertinent information for each boring are presented in the Soil Boring Logs (Attachment 1).

Based on field screening data, visual observations, odors and soil boring location, Delta selected six soil samples for laboratory analysis: GSB-1 (12-16'), GSB-3 (16-20'), GSB-6 (4-8'), GSB-7 (12-16'), GSB-9 (4-8') and GSB-10 (16-20'). These soil samples were collected from specific depth intervals in these borings which generally exhibited the greatest impacts (i.e., presence of fill material, elevated PID readings, staining, odors, etc.). The six soil samples were analyzed for VOCs via EPA Method 8260, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270, PCBs via EPA Method 8082 and RCRA Metals. Soil samples were analyzed by Severn Trent Laboratories, Inc. (Severn Trent), located in Buffalo, New York. Severn Trent is an NYSDOH ELAP certified analytical laboratory.

Upon completion of each soil boring, the borehole was either backfilled or used to construct a temporary groundwater monitoring well. The temporary wells were installed for groundwater sampling purposes as described below.

Temporary Monitoring Well Installations

Six temporary monitoring wells were installed during the Limited Site Investigation to evaluate groundwater quality beneath the site. These wells were installed to a maximum of 24 feet below grade in borings GSB-1, GSB-3, GSB-5, GSB-6, GSB-7 and GSB-9. Each temporary well was constructed of approximately ten feet of one-inch diameter PVC well screen and up to 14 feet of one-inch diameter PVC riser. The well was lowered into the borehole to the desired depth then a silica sand pack was added until the sand was above the top of the screened interval. A bentonite chip seal was added above the sand to prevent any surface water from infiltrating into the well.

In general, the depth to groundwater and saturated thickness encountered in each of the soil borings drilled during this Limited Site Investigation was not consistent across the site. As indicated in the table below, the total depths of the wells ranged from approximately 14.83 to 23.40 feet below ground surface and the depths to water in each well ranged from approximately 10.25 to 21.39 feet below grade.

Well ID	GSB-1	GSB-3	GSB-5	GSB-6	GSB-7	GSB-9
Depth to Water (ft)	15.57	21.39	10.25	16.81	17.18	19.29
Total Depth (ft)	19.20	23.40	14.83	19.82	20.07	19.81

The inconsistent depths to water observed during the Limited Site Investigation prevented developing a reliable groundwater flow direction map. As such, the temporary wells were not surveyed during the course of this investigation. In addition, as indicated in the table above, less than five feet of water was present in each of the wells. Based on the small amount of water in each well and slow recharge, only minimal well development was performed to allow for as much volume as possible for groundwater sampling.

Following sampling, each temporary well was abandoned by removing the well screen and casing and filling the borehole to grade with cement grout.

Groundwater Sampling

Groundwater samples were collected from the temporary wells on 11 March 2005 using small diameter, disposable polyethylene bailers. Prior to sampling, the depth to groundwater and total depth of each well were measured, as summarized in the table above, with an electronic water level indicator. As previously stated, well development and/or purging was not performed due to the small amount of water present in the wells and slow recharge. Therefore, water samples were generally turbid and contained sediment. In general, groundwater samples were analyzed for VOCs via EPA Method 8260, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270, PCBs via EPA Method 8082 and RCRA Metals; however, some of the wells contained insufficient volume for all of the analyses. The specific parameters analyzed for each of the groundwater samples is presented below.

- GSB-1, GSB-5 and GSB-7: VOCs, PAHs, PCBs and metals;
- GSB-3 and GSB-6: VOCs and PAHs; and
- GSB-9: VOCs only.

The groundwater samples were analyzed by Severn Trent.

Data Evaluation

The analytical data collected during the Limited Site Investigation activities were reviewed and checked by Delta for completeness and accuracy. The soil analytical data were compared to NYSDEC TAGM 4046 recommended soil cleanup objectives. Groundwater analytical data were compared to NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS) ambient water quality standards and guidance values for groundwater. Data summary sheets are presented in Attachment 2.

RESULTS

Soil Sampling / Soil Boring Results

Soil boring data indicated that materials located beneath the majority of the site consisted of four to eight feet of soil fill consisting primarily of brown sand and gravel with varying amounts of silt. This material was compact and was placed over fill material that likely was associated with past landfill activities. Also, ash was encountered at most locations; this ash was likely associated with the former incinerator that was located immediately south of the site. The fill material generally consisted of dark gray to black sand and fine gravel with ash, metal, copper wire, paper, cardboard, plastic, glass, brick fragments, wood, slag, etc. This material was soft, damp to saturated, and ranged from four to 20 feet or more in thickness. The soil beneath the fill material consisted of gray-brown to olive-brown sand and silt with varying amounts of clay and gravel. This soil was wet to saturated, and appeared to be natural undisturbed materials.

Field screening results indicated the potential presence of petroleum residuals in a number of the soil borings. Generally, the evidence of petroleum residuals were encountered in the dark-gray to black fill materials at depths of between 8 feet and 20 feet below grade. Specifically, petroleum odors and staining were observed in borings GSB-1, GSB-3, GSB-6 and GSB-7. The PID readings in the fill material in these borings ranged from 5 to 40 parts per million (ppm) with some higher reading (115-275 ppm) in boring GSB-3. The PID readings for the soil samples from the remaining borings were generally between 0 to 5 ppm.

Soil Sampling / Analytical Results

Laboratory reports show that VOCs, PAHs and metals were detected in all six soil samples (Table 1). Of the VOCs detected, only the concentration of acetone in samples GSB-1 (12-16'), GSB-6 (4-8') and GSB-10 (16-20') met or exceeded the NYSDEC-recommended soil cleanup objective. Numerous PAHs and metals were detected in each sample with a number of the reported concentrations exceeding the applicable NYSDEC-recommended soil cleanup objectives. The only exception to this was sample GSB-3 (16-20'), where only one PAH (phenanthrene) was detected, and the detected concentration was below the cleanup objective. PCBs were detected in three of the soil samples: GSB-3 (16-20'), GSB-6 (4-8') and GSB (4-8'); however, all of the reported concentrations were below the applicable NYSDEC-recommended soil cleanup objective.

Groundwater Sampling / Analytical Results

Laboratory reports show that VOCs were detected in each of the groundwater samples with the reported concentrations of cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and vinyl chloride in sample GSB-5, benzene, methylene chloride and xylenes in sample GSB-6, chlorobenzene in sample GSB-7 and acetone in sample GSB-9 exceeding their respective NYS Class GA groundwater standards (Table 2).

Five of the six groundwater samples were analyzed for PAHs. One or more PAHs were reported in three of these five samples (GSB-5, GSB-6 and GSB-7) with the concentrations of chrysene in samples GSB-5 and GSB-6 and benzo(a)anthracene, benzo(b)fluoranthene and naphthalene in sample GSB-6 exceeding their respective NYS Class GA guidance values.

Three of the six samples (GSB-1, GSB-5 and GSB-7) were analyzed for PCBs and RCRA metals. PCBs were detected in sample GSB-1 at a concentration of 0.32 parts per billion (ppb), which exceeded the NYS Class GA groundwater standard of 0.09 ppb. PCBs were not detected in the remaining samples. Metals were detected in each of the three samples with the concentrations of lead in all three samples exceeding the NYS Class GA groundwater standard. In addition, the reported concentrations of arsenic, barium, chromium and mercury in samples GSB-1 and GSB-7 as well as the concentration of cadmium and silver in sample GSB-1, also exceeded their respective NYS Class GA groundwater standards. NOTE: These water samples contained sediment, and the detected PCBs and metals are likely due to the sediment in the samples.

Groundwater Flow

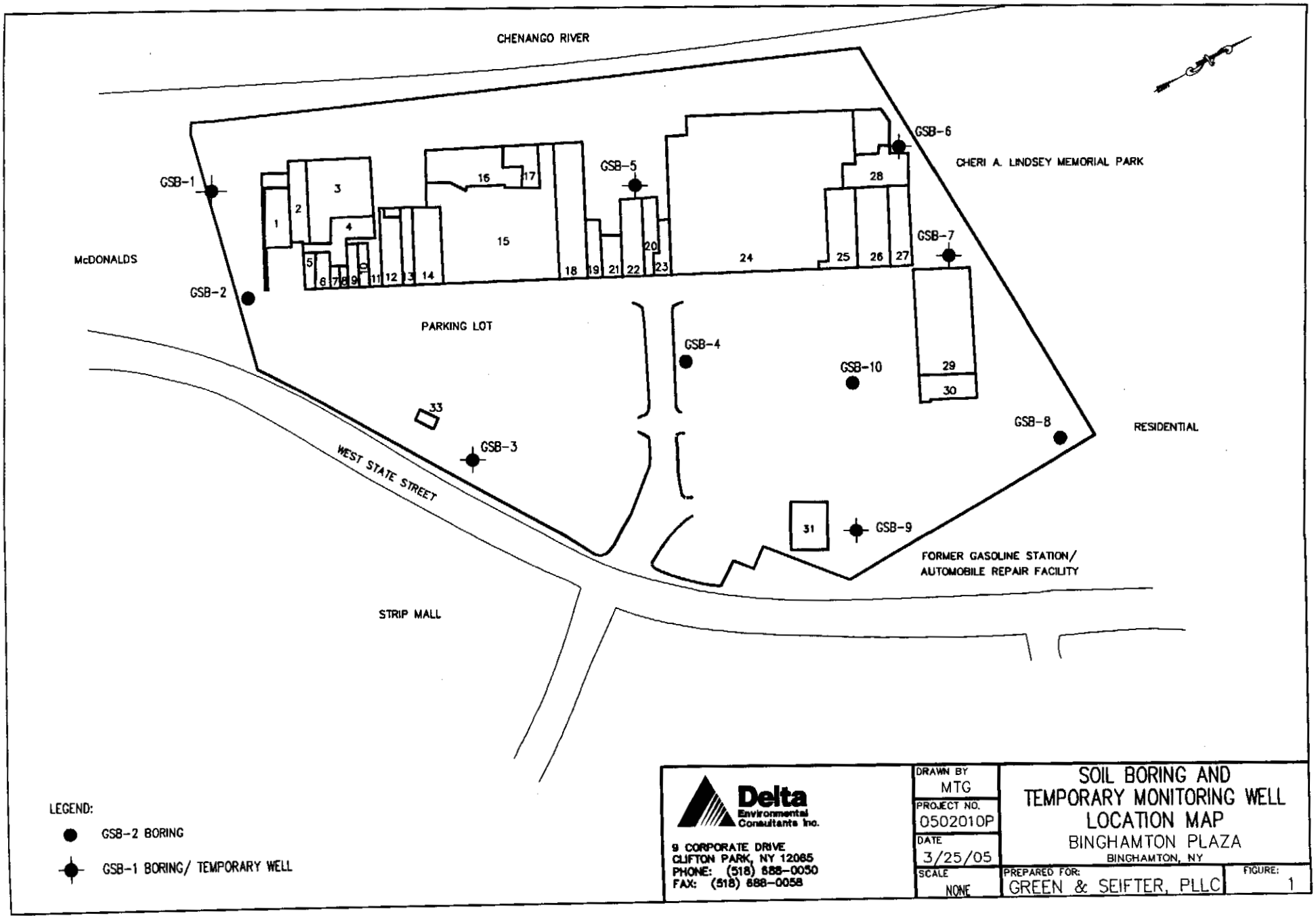
As previously indicated, an accurate groundwater flow direction map for the site could not be prepared due to the inconsistent depth to groundwater encountered during the Limited Site Investigation. Based on topography and proximity to the Chenango River, groundwater is expected to flow to the west and/or northwest toward the river.

Delta appreciates the opportunity to present the findings of this Limited Soil Investigation. If you have any questions or comments concerning this submittal, feel free to contact the undersigned at (315) 445-0224 or by e-mail (mschumacher@deltaenv.com).

Sincerely,
DELTA ENVIRONMENTAL CONSULTANTS, INC.

Mark J. Schumacher
Project Manager

Attachments



LEGEND:

- GSB-2 BORING
- GSB-1 BORING/ TEMPORARY WELL

Delta Environmental Consultants Inc.
9 CORPORATE DRIVE
CLIFTON PARK, NY 12065
PHONE: (518) 688-0050
FAX: (518) 688-0058

DRAWN BY	MTG
PROJECT NO.	0502010P
DATE	3/25/05
SCALE	NONE

SOIL BORING AND TEMPORARY MONITORING WELL LOCATION MAP

BINGHAMTON PLAZA
BINGHAMTON, NY

PREPARED FOR: GREEN & SEIFTER, PLLC

FIGURE: 1

TABLE 1
Summary of Analytical Results - Soil Samples
VOCs, SVOCs, PCBs and Metals
Binghamton Plaza - Limited Site Investigation

PARAMETER	TAGM 4046 Soil Cleanup Objectives (ppb)	SOIL BORINGS / SOIL SAMPLE RESULTS					
		GSB-1 (12-16')	GSB-3 (16-20')	GSB-6 (4-8')	GSB-7 (12-16')	GSB-9 (4-8')	GSB-10 (16-20')
Volatile Organic Compounds (ppb)							
Acetone	200	**210**	57	**220**	180	28	**200**
Benzene	60	4	ND	2	ND	ND	ND
2-Butanone	300	22	12	47	42	ND	40
Carbon Disulfide	2,700	ND	ND	7	1	ND	2
Cyclohexane	NS	38	13	23	3	48	43
1,4-Dichlorobenzene	8,500	ND	4	ND	ND	ND	4
Ethylbenzene	5,500	3	5	2	ND	ND	4
Isopropylbenzene	NS	15	ND	9	ND	ND	18
Methylcyclohexane	NS	4	ND	8	ND	ND	3
Methylene Chloride	100	7	ND	ND	11	ND	8
Toluene	1,500	3	ND	ND	ND	ND	ND
Vinyl Chloride	200	ND	ND	ND	ND	3	18
Xylenes (total)	1,200	17	ND	54	ND	ND	100
Semi-Volatile Organic Compounds (ppb)							
Acenaphthene	50,000	2,000	ND	320	ND	ND	ND
Acenaphthylene	41,000	1,800	ND	280	ND	ND	ND
Anthracene	50,000	4,100	ND	ND	ND	ND	2,300
Benzo(a)anthracene	224 or MDL	**7,600**	ND	**460**	**460**	**350**	**3,000**
Benzo(b)fluoranthene	1,100	**12,000**	ND	810	830	560	**2,700**
Benzo(k)fluoranthene	1,100	**13,000**	ND	910	940	630	ND
Benzo(a)pyrene	61 or MDL	**3,800**	ND	**210**	**1,500**	**280**	**2,300**
Chrysene	400	**10,000**	ND	**680**	**570**	360	**2,600**
Dibenzo(a,h)anthracene	14 or MDL	**1,500**	ND	ND	**340**	ND	ND
Fluoranthene	50,000	23,000	ND	1,500	300	890	8,500
Fluorene	50,000	5,100	ND	630	ND	ND	2,000
Indeno(1,2,3-cd)pyrene	3,200	1,800	ND	ND	300	ND	ND
2-Methylnaphthalene	36,400	5,400	ND	13,000	ND	690	ND
Naphthalene	13,000	3,900	ND	3,400	ND	140	ND
Phenanthrene	50,000	25,000	180	1,000	220	520	9,200
Pyrene	50,000	12,000	ND	1,200	280	530	4,800
PCBs Total (ppb)							
Aroclor 1242	10,000 (1)	ND	340	ND	ND	ND	ND
Aroclor 1254	10,000 (1)	ND	220	420	ND	3000	ND
Metals (ppm)							
Arsenic	7.5 or SB	5.1	7.3	**76.2**	4.6	**7.9**	5.0
Barium	300 or SB	148	**332**	**304**	57.1	**529**	140
Cadmium	1 or SB	ND	0.71	**2.20**	ND	**2.0**	ND
Chromium	10 or SB	**16.6**	**38.8**	**39.1**	**17.8**	**25.9**	**24.8**
Lead	SB (2)	208	**1200**	**863**	98.9	**1110**	233
Mercury	0.1	**0.30**	**0.23**	**3.50**	**0.30**	**0.34**	**0.34**
Selenium	2 or SB	ND	ND	**68.8**	ND	ND	ND
Silver	SB	2.7	12.8	ND	ND	28.5	10.6

Notes:

ND: Compound not detected; NA: Compound not analyzed; NS: No standard; MDL: Method Detection Limit; SB: Site Background

(1): Cleanup objective for subsurface soils.

(2): Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

12,000 Analyte detected at concentration in excess of NYSDEC TAGM 4046 recommended soil cleanup objective.

TABLE 2
Summary of Analytical Results - Groundwater Samples
VOCs, SVOCs, PCBs and Metals
Binghamton Plaza - Limited Site Investigation

PARAMETER	NYSDEC Class GA Groundwater Standard/Guidance Value (ppb)	TEMPORARY MONITORING WELLS GROUNDWATER SAMPLE RESULTS (ppb)					
		GSB-1	GSB-3	GSB-5	GSB-6	GSB-7	GSB-9
Volatile Organic Compounds (ppb)							
Acetone	50	4.20	ND	ND	4.60	4.60	**64**
Benzene	1	0.57	ND	0.45	**7.90**	0.80	ND
2-Butanone	50	ND	ND	ND	2.90	ND	18
Carbon Disulfide	NS	0.27	0.31	ND	1.70	1.40	ND
Chlorobenzene	5	0.52	ND	ND	ND	**9.70**	ND
Chloroform	7	ND	ND	ND	0.41	ND	ND
Cyclohexane	NS	2.10	5.20	9.90	23	4.90	0.91
1,3-Dichlorobenzene	3	ND	ND	ND	0.70	ND	ND
1,4-Dichlorobenzene	3	0.32	ND	ND	0.72	2.30	ND
cis-1,2-Dichloroethene	5	ND	ND	**11**	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	1.40	ND	ND
2-Hexanone	50	2.0	ND	ND	ND	ND	ND
Isopropyl benzene	5	1.20	ND	0.23	4.50	1.80	ND
Methylcyclohexane	NS	0.62	ND	ND	ND	ND	ND
Methylene Chloride	5	0.69	ND	ND	**5.90**	0.63	ND
MTBE	10	0.82	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	**8.60**	ND	ND	ND
Trichloroethene	5	ND	ND	**5.50**	ND	ND	ND
Vinyl Chloride	2	ND	ND	**4.0**	ND	ND	ND
Xylenes (total)	5	0.72	ND	ND	**13**	ND	ND
Semi-Volatile Organic Compounds (ppb)							
Acenaphthene	20	ND	ND	3.0	5.0	ND	NA
Benzo(a)anthracene	0.002	ND	ND	ND	**3.0**	ND	NA
Benzo(b)fluoranthene	0.002	ND	ND	ND	**4.0**	ND	NA
Chrysene	0.002	ND	ND	**2.0**	**3.0**	ND	NA
Fluoranthene	50	ND	ND	5.0	8.0	ND	NA
Fluorene	50	ND	ND	2.0	3.0	ND	NA
2-Methylnaphthalene	NS	ND	ND	ND	7.0	2.0	NA
Naphthalene	10	ND	ND	ND	**16.0**	ND	NA
Phenanthrene	50	ND	ND	5.0	6.0	ND	NA
Pyrene	50	ND	ND	3.0	5.0	ND	NA
PCBs Total (ppb) (Aroclor 1254)	0.09	**0.32**	NA	ND	NA	ND	NA
Metals (ppb)							
Arsenic	25	**140**	NA	ND	NA	**100**	NA
Barium	1,000	**3,600**	NA	170	NA	**1,700**	NA
Cadmium	5	**15**	NA	ND	NA	1.5	NA
Chromium	50	**210**	NA	8.8	NA	**190**	NA
Lead	25	**4,000**	NA	**30**	NA	**1,500**	NA
Mercury	0.7	**50**	NA	ND	NA	**17**	NA
Selenium	10	ND	NA	ND	NA	ND	NA
Silver	50	**88**	NA	ND	NA	4.1	NA

Notes:

ND: Compound not detected: NA: Compound not analyzed; NS: No standard

64 Analyte detected at concentration in excess of NYSDEC Class GA Groundwater Standard or Guidance Value.

ATTACHMENT 1

SOIL BORING LOGS

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-1

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.8	2.0	0-0.5' Asphalt and road base gravel 0.5-1.5' Sand (f-cs) and gravel (f), black, dry 1.5-3.8' Sand (f-cs) some gravel (f-cs) some silt, gray-brown, hard, dry			No odor or staining
5.0 6.0 7.0 8.0	2	NA	3.4	12.0	Sand (f-cs) some gravel (f-cs) little silt, brown to black with some fill (metal wire and glass fragments), dry to damp			Weak oily odor in fill material
9.0 10.0 11.0 12.0	3	NA	1.7	16.0	Same as above, less gravel with more fill - wood, slag, ash, etc.			Weak oily odor in fill material
13.0 14.0 15.0 16.0	4	NA	3.2	33.0	Same as above - more fill (ash, wire, brick, wood, copper wire, tarry substance) mixed with sand and gravel, damp to moist, brown to black			Weak oily odor in fill material
17.0 18.0 19.0 20.0	5	NA	1.0	-	Same as above, black, saturated EOB @ 20'			Weak oily odor in fill material

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-2

PROJECT: Bingamton Plaza - Limited Site Investigation							Sheet 1 of 1
CLIENT: Green & Seifter, PLLC							
DELTA PROJECT NO: 0502010P 0001							
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE / CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA / NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT			

DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION	REMARKS
1.0 2.0 3.0 4.0	1	NA	3.2	0.0	0-0.5' Asphalt and road base gravel 0.5-3.2' Sand (f-cs) some gravel (f-cs) little silt little clay, more silt and clay toward bottom, damp to moist, gray-brown	No odor or staining
5.0 6.0 7.0 8.0	2	NA	1.2	0-1	Same as above, dry to damp	No odor or staining
9.0 10.0 11.0 12.0	3	NA	2.4	3-4	Sand (f-cs) little silt little gravel (f-m) trace clay, finer with depth, gray-brown with some glass fragments, damp to moist	No odor or staining
13.0 14.0 15.0 16.0	4	NA	1.8	0-1	0-0.6' Same as above, damp to moist 0.6-1.8' Sand (f-cs) trace gravel (f-m) trace silt trace clay, gray brown, damp	No odor or staining
17.0 18.0 19.0 20.0	5	NA	2.5	3-4	0-0.5' Same as above, saturated 0.5-1.8' Sand (f-cs) trace gravel (f) with fill - ash, brick frags, slag, etc., black, saturated 1.8-3.0' Silt some clay trace sand (f), olive-gray, wet EOB @ 20'	No odor or staining

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-3

PROJECT: Bingamton Plaza - Limited Site Investigation							Sheet 1 of 2
CLIENT: Green & Seifter, PLLC							
DELTA PROJECT NO: 0502010P 0001							
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT			

DATE: 3-09-05

DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION	REMARKS
1.0 2.0 3.0 4.0	1	NA	3.8	1.1	0-0.5' Asphalt and road base gravel 0.5-3.0' Sand (f-cs) some gravel (f-cs) little silt, gray-brown, hard, dry, some glass fragments 3.0-3.8' Sand (f-cs) trace gravel (f), black, fill with glass, wire, ash, dry, soft	No odor or staining
5.0 6.0 7.0 8.0	2	NA	0.7	3.0	Same as above, very soft, dry-damp	Weak oily odor in fill
9.0 10.0 11.0 12.0	3	NA	0.8	2.5	Same as above, very soft with newspaper and plastic in the fill, black, damp	Weak oily odor in fill
13.0 14.0 15.0 16.0	4	NA	0.8	115.0	Same as above, very soft, damp to moist	Weak oily odor in fill
17.0 18.0 19.0 20.0	5	NA	0.6	275.0	Same as above, moist	Weak oily odor in fill

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-3

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 2 of 2
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
21.0								
22.0	6	NA	2.4	-	Sand (f-cs) little gravel (f-m) little silt trace clay, gray-brown, saturated			No odor or staining
23.0								
24.0								
					EOB @ 24'			
25.0								
26.0								
27.0								
28.0								
29.0								
30.0								
31.0								
32.0								
33.0								
34.0								
35.0								
36.0								
37.0								
38.0								

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-4

PROJECT: Bingamton Plaza - Limited Site Investigation							Sheet 1 of 1
CLIENT: Green & Seifter, PLLC							
DELTA PROJECT NO: 0502010P 0001							
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT			

DATE: 3-09-05

DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION	REMARKS
1.0 2.0 3.0 4.0	1	NA	3.8	3.2	0-1' Asphalt and road base gravel 1-3.8' Sand (f-cs) some gravel little silt, gray-brown, dry to damp, hard, coarse	No odor or staining
5.0 6.0 7.0 8.0	2	NA	3.4	1.0	Sand (f-cs) some gravel little silt little clay, gray-brown, wet to saturated with fill material - paper, glass, brick, ash, etc., in bottom half of the sample	No odor or staining
9.0 10.0 11.0 12.0	3	NA	1.2	2.5	Same as above with more paper and wood fill, saturated, refusal at 11.8' EOB @ 12'	No odor or staining
13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0						

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-5

Sheet 1 of 1

PROJECT: Bingamton Plaza - Limited Site Investigation				
CLIENT: Green & Seifter, PLLC				
DELTA PROJECT NO: 0502010P 0001				
DRILLING METHOD: Direct Push	SAMPLER	BIT SIZE	CORE	CASING
DRILLING RIG: Concord 9200	Macro Core	1-1/2" ID	NA	NA
DRILLERS: Subsurface Drilling Sol'ns	INSPECTOR: SCOTT BRYANT			

DATE: 3-10-05

DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION	REMARKS
1.0 2.0 3.0 4.0	1	NA	3.2	1-2	0-0.5' Asphalt and road base gravel 0.5-3.2' Sand (f-cs) some gravel (f-cs) little silt, gray-brown, coarse, dry to damp toward bottom	No odor or staining
5.0 6.0 7.0 8.0	2	NA	2.4	1.5	0-2.0' Same as above, damp to moist 2.0-2.4' Sand (f-cs) little gravel (f), black, wet fill material with ash, tile, brick, glass, etc.	No odor or staining
9.0 10.0 11.0 12.0	3	NA	0.4	2.0	Same as above, saturated, black	Very weak oily odor
13.0 14.0 15.0 16.0	4	NA	0.4	-	Same as above EOB @ 15'	No odor or staining
17.0 18.0 19.0 20.0						

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-6

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-10-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.2	0.5	Sand (f-cs) some gravel (f-cs) little silt, gray-brown, dry, hard			No odor or staining
5.0 6.0 7.0 8.0	2	NA	1.5	40.0	Sand (f-cs) little gravel (f-m) little silt, brown to black at bottom, dry to damp fill with organics toward bottom			Oily odor in bottom 0.4'
9.0 10.0 11.0 12.0	3	NA	0.4	5.0	Sand (f-cs) some silt trace gravel (f-m), dark gray, moist to wet			Weak oily odor
13.0 14.0 15.0 16.0	4	NA	1.8	20.0	0-0.9' Same as above, gray, saturated 0.9-1.8' Sand (f-cs) trace gravel (f) with fill - ash, brick, fire brick, glass, wood, etc., damp to moist			Weak oily odor
17.0 18.0 19.0 20.0	5	NA	3.0	8.0	0-0.8' Same as above with newspaper 0.8-3.0' Sand (f-m) and silt little clay, dark gray, wet, soft some newspaper and wood fill at top EOB @ 20'			Weak oily odor

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-7

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-10-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.8	0.5	Sand (f-cs) some gravel (f-m) little silt, gray-brown, dry to damp, compact, coarse fill			No odor or staining
5.0 6.0 7.0 8.0	2	NA	1.9	1.0	Sand (f-cs) some gravel (f-cs) little silt trace clay, fines toward bottom, damp to moist, gray-brown grading to dark brown, minor fill material near bottom - glass and brick			No odor or staining
9.0 10.0 11.0 12.0	3	NA	1.6	3.0	0-0.6' Same as above 0.6-1.6' Sand (f-cs) little silt little gravel (f-m), damp to wet, black with fill - ash, glass, brick, metal, plastic, wood, etc.			Weak oily odor
13.0 14.0 15.0 16.0	4	NA	1.0	5.0	Same as above, dark brown with more metal			Weak oily odor
17.0 18.0 19.0 20.0	5	NA	0.8	-	Same as above, saturated, refusal at 17'			Weak oily odor
					EOB @ 17'			

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-8

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0								
2.0	1	NA	3.8	0.0	Sand (f-cs) some gravel (f-cs) little silt, brown to black with depth, dry to damp with some small brick fragments			No odor or staining
3.0								
4.0								
5.0								
6.0	2	NA	2.8	0.0	Sand (f-cs) some gravel (f-cs) little silt, brown, re-worked soil with minor fill material - brick frags and wood near bottom, dry to damp			No odor or staining
7.0								
8.0								
9.0								
10.0	3	NA	0.0	-	Refusal at 8.2' - no recovery			
11.0					EOB @ 8.2'			
12.0								
13.0								
14.0								
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-9

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0					0-0.8' Asphalt and road base gravel			No odor or staining
2.0	1	NA	3.0	6.0	0.8-2.5' Sand (f-cs) some gravel (f-m) little silt, gray-brown, dry, fill soil			
3.0					2.5-3.0' Sand (f-cs) little gravel (f), black, dry to damp, with fill material - ash, metal, glass, slag, etc.			Weak oily odor
4.0								
5.0								
6.0	2	NA	1.2	3.0	Sand (f-cs) little gravel (f-m) trace silt, black, wet with fill - ash, glass, metal, wire, wood, etc., soft			Weak oily odor
7.0								
8.0								
9.0								
10.0	3	NA	1.0	2.0	Same as above, more fill, black, wet, very soft			Weak oily odor
11.0								
12.0								
13.0								
14.0	4	NA	1.2	1.5	Same as above, wet			Weak oily odor
15.0								
16.0								
17.0								
18.0	5	NA	3.8	1.0	Sand (f-m) and silt little clay, wet, soft, dark gray grading to olive-gray and softer			Weak oily odor
19.0								
20.0					EOB @ 20'			

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-10

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 2
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-10-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.9	0.5	0-0.5' Asphalt and road base gravel Sand)f-cs) some gravel (f-cs) little silt, gray-brown, dry, hard fill soil			No odor or staining
5.0 6.0 7.0 8.0	2	NA	2.8	5.0	0-1.3' Same as above 1.3-2.8' Sand (f-cs) some gravel (f-m) trace silt, damp, black with fill - glass, metal, brick frags, ash, etc.			No odor or staining
9.0 10.0 11.0 12.0	3	NA	0.5	8.0	Same as above, damp			No odor or staining
13.0 14.0 15.0 16.0	4	NA	0.3	10.0	Same as above			No odor or staining
17.0 18.0 19.0 20.0	5	NA	0.9	18.0	Same as above, moist to wet with dark-gray sand and silt at bottom of the tube			No odor or staining

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-10

PROJECT: Bingamton Plaza - Limited Site Investigation

CLIENT: Green & Seifter, PLLC

DELTA PROJECT NO: 0502010P 0001

DRILLING METHOD: Direct Push	SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200	Macro Core	1-1/2" ID	NA	NA	DATE: 3-10-05
DRILLERS: Subsurface Drilling Sol'ns	INSPECTOR: SCOTT BRYANT				

DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION	REMARKS
21.0						
22.0	6	NA	0.8	-	Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated	No odor or staining
23.0						
24.0					EOB @ 24'	
25.0						
26.0						
27.0						
28.0						
29.0						
30.0						
31.0						
32.0						
33.0						
34.0						
35.0						
36.0						
37.0						
38.0						

ATTACHMENT 2

LABORATORY ANALYTICAL REPORTS

SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-2260

STL Project#: NY4A9341
Site Name: Delta Environmental Consultants, Inc.
Task: Binghamton Project

Mark Schumacher
Delta Environmental
104 Jamesville Rd.
Syracuse, NY 13214

STL Buffalo

Brian J. Fischer
Project Manager

03/24/2005

STL Buffalo
Current Certifications

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5226011	GSB-1	WATER	03/11/2005	09:55	03/12/2005	12:15
A5226002	GSB-1 (12-16)	SOIL	03/09/2005	12:40	03/12/2005	12:15
A5226006	GSB-10 (16-20)	SOIL	03/10/2005	17:00	03/12/2005	12:15
A5226012	GSB-3	WATER	03/11/2005	10:15	03/12/2005	12:15
A5226005	GSB-3 (16-20)	SOIL	03/09/2005	14:00	03/12/2005	12:15
A5226010	GSB-5	WATER	03/11/2005	09:35	03/12/2005	12:15
A5226009	GSB-6	WATER	03/11/2005	09:15	03/12/2005	12:15
A5226001	GSB-6 (4-8)	SOIL	03/10/2005	08:20	03/12/2005	12:15
A5226008	GSB-7	WATER	03/11/2005	08:50	03/12/2005	12:15
A5226004	GSB-7 (12-16)	SOIL	03/10/2005	15:00	03/12/2005	12:15
A5226007	GSB-9	WATER	03/11/2005	08:25	03/12/2005	12:15
A5226003	GSB-9 (4-8)	SOIL	03/09/2005	16:10	03/12/2005	12:15
A5226013	TRIP BLANK	WATER	03/11/2005		03/12/2005	12:15

METHODS SUMMARY

Job#: A05-2260

STL Project#: NY4A9341
Site Name: Delta Environmental Consultants, Inc.

PARAMETER	ANALYTICAL METHOD
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS	SW8463 8260
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO	SW8463 8270
Delta - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO	SW8463 8270
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7470
Mercury - Total	SW8463 7471
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A05-2260

STL Project#: NY4A9341
Site Name: Delta Environmental Consultants, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-2260
Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C
No tests were listed on chain of custody for sample GSB-3; tests were assigned according to bottle labels.

GC/MS Volatile Data

The analyte Bromomethane was detected in the Method Blanks A5B0352902 (VBLK82) and A5B0358702 (VBLK84) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC/MS Semivolatile Data

The samples GSB-1 (12-16) RI, GSB-9 (4-8) RI, and GSB-7 (12-16) RI were subjected to gel permeation chromatrography cleanup in order to obtain client requested reporting limits.

The spike recoveries for Pyrene were below the laboratory quality control limits in the Matrix Spike GSB-6 (4-8). Since the Matrix Spike Blank A5B0334301 recoveries were compliant, no corrective action was required.

Sample GSB-1 (12-16), 8270 soil, had an adjusted final volume during extraction due to extract matrix and viscosity.

GC Extractable Data

For method 8082, the recovery of surrogate Decachlorobiphenyl in sample GSB-7 is outside of established quality control limits due to the sample matrix. The recovery of surrogate Tetrachloro-m-xylene is within quality control limits; no corrective action is required.

For method 8082, many samples required dilution prior to analysis due to the heavy matrix present or high concentration of target analytes. The surrogates are diluted out of all sample extracts with a dilution factor of 10X or greater.

Metals Data

The recovery of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Barium and Lead(MS) and above quality control limits for Lead(MSD). The sample result is more than four times greater than the spike added. The RPD of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Barium and Lead. The LCS (A5B0334601) is acceptable.

The recovery of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exhibited results above quality control limits for Chromium(SD), and below quality control limits for Arsenic, Cadmium, Chromium(MS), Selenium, and Silver. Sample matrix is suspect. The RPD of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Arsenic, Chromium, and Selenium. However, the LCS (A5B0334601) was acceptable.

The recovery of sample GSB-7 Matrix Spike Duplicate exhibited results below the quality control limits for Barium and Lead. The sample result is more than four times greater than the spike added. The RPD of sample GSB-7 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Barium and Lead. The LFB (A5B0334701) is acceptable.

The recovery of sample GSB-7 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Cadmium, Chromium, Mercury and Selenium. Sample matrix is suspect. However, the LFB's (A5B0334701 and A5B0339201) were acceptable.

The value obtained for Mercury on sample GSB-7 was confirmed via reanalysis. Only the result from the original analysis is provided in this data package. The initial over-range value obtained for sample GSB-1 was confirmed by the dilution of that sample.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

_____

Brian J. Fischer
Project Manager

_____

Date

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
GSB-6 (4-8)	A5226001	Mercury - Total	10.00	008
GSB-6 (4-8) DL	A5226001DL	8270	5.00	008
GSB-6 (4-8)	A5226001MS	Mercury - Total	10.00	008
GSB-6 (4-8)	A5226001SD	Mercury - Total	10.00	008
GSB-1 (12-16)	A5226002	8270	10.00	012
GSB-1 (12-16) RI	A5226002RI	8270	5.00	008
GSB-9 (4-8)	A5226003	8082	20.00	008
GSB-9 (4-8)	A5226003	8270	10.00	012
GSB-7 (12-16)	A5226004	8270	10.00	012
GSB-10 (16-20)	A5226006	8270	10.00	008
GSB-7	A5226008MS	Mercury - Total	5.00	008
GSB-7	A5226008SD	Mercury - Total	5.00	008
GSB-1	A5226011	Mercury - Total	10.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected at or above the reporting limit.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the associated blank, as well as in the sample.

E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D This flag identifies all compounds identified in an analysis at the secondary dilution factor.

N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.

P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".

A This flag indicates that a TIC is a suspected aldol-condensation product.

1 Indicates coelution.

* Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected at or above the reporting limit.

J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

N Indicates spike sample recovery is not within the quality control limits.

K Indicates the post digestion spike recovery is not within the quality control limits.

S Indicates value determined by the Method of Standard Addition.

M Indicates duplicate injection results exceeded quality control limits.

W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.

E Indicates a value estimated or not reported due to the presence of interferences.

H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.

* Indicates analysis is not within the quality control limits.

+ Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Date: 03/24/2005
Time: 16:18:43

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		GSB-1 (12-16)		GSB-10 (16-20)		GSB-3 (16-20)		GSB-6 (4-8)	
Job No / Lab ID		A05-2260 / A5226002		A05-2260 / A5226006		A05-2260 / A5226005		A05-2260 / A5226001	
Sample Date		03/09/2005		03/10/2005		03/09/2005		03/10/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	210	30	200	30	57	30	220	28
Benzene	UG/KG	4 J	6	ND	6	ND	6	2 J	6
Bromodichloromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Bromoform	UG/KG	ND	6	ND	6	ND	6	ND	6
Bromomethane	UG/KG	ND	6	ND	6	ND	6	ND	6
2-Butanone	UG/KG	22 J	30	40	30	12 J	30	47	28
Carbon Disulfide	UG/KG	ND	6	2 J	6	ND	6	7	6
Carbon Tetrachloride	UG/KG	ND	6	ND	6	ND	6	ND	6
Chlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloroform	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Cyclohexane	UG/KG	38	6	43	6	13	6	23	6
1,2-Dibromoethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Dibromochloromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,4-Dichlorobenzene	UG/KG	ND	6	4 J	6	4 J	6	ND	6
Dichlorodifluoromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1-Dichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
cis-1,2-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
trans-1,2-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dichloropropane	UG/KG	ND	6	ND	6	ND	6	ND	6
cis-1,3-Dichloropropene	UG/KG	ND	6	ND	6	ND	6	ND	6
trans-1,3-Dichloropropene	UG/KG	ND	6	ND	6	ND	6	ND	6
Ethylbenzene	UG/KG	3 J	6	4 J	6	ND	6	2 J	6
2-Hexanone	UG/KG	ND	30	ND	30	ND	30	ND	28
Isopropylbenzene	UG/KG	15	6	18	6	ND	6	9	6
Methyl acetate	UG/KG	ND	6	ND	6	ND	6	ND	6
Methylcyclohexane	UG/KG	4 J	6	3 J	6	ND	6	8	6
Methylene chloride	UG/KG	7	6	8	6	ND	6	ND	6
4-Methyl-2-pentanone	UG/KG	ND	30	ND	30	ND	30	ND	28
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	6	ND	6	ND	6	ND	6
Styrene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1,2,2-Tetrachloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Tetrachloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
Toluene	UG/KG	3 J	6	ND	6	ND	6	ND	6
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1,1-Trichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1,2-Trichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6

11/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:18:43

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		GSB-1 (12-16)		GSB-10 (16-20)		GSB-3 (16-20)		GSB-6 (4-8)	
Job No	Lab ID	A05-2260	A5226002	A05-2260	A5226006	A05-2260	A5226005	A05-2260	A5226001
Sample Date		03/09/2005		03/10/2005		03/09/2005		03/10/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	6	ND	6	ND	6	ND	6
Trichlorofluoromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Trichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
Vinyl chloride	UG/KG	ND	12	18	12	ND	12	ND	11
Total Xylenes	UG/KG	17 J	18	100	18	ND	18	54	17
=====IS/SURROGATE(S)=====									
Chlorobenzene-D5	%	120	50-200	85	50-200	79	50-200	79	50-200
1,4-Difluorobenzene	%	113	50-200	84	50-200	81	50-200	80	50-200
1,4-Dichlorobenzene-D4	%	105	50-200	87	50-200	69	50-200	87	50-200
Toluene-D8	%	96	71-125	92	71-125	94	71-125	101	71-125
p-Bromofluorobenzene	%	92	68-124	88	68-124	83	68-124	95	68-124
1,2-Dichloroethane-D4	%	88	61-136	90	61-136	90	61-136	83	61-136

12/89

STL Buffalo

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:18:43

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		GSB-7 (12-16)		GSB-9 (4-8)					
Job No	Lab ID	A05-2260	A5226004	A05-2260	A5226003				
Sample Date		03/10/2005		03/09/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	180	29	28 J	30	NA		NA	
Benzene	UG/KG	ND	6	ND	6	NA		NA	
Bromodichloromethane	UG/KG	ND	6	ND	6	NA		NA	
Bromoform	UG/KG	ND	6	ND	6	NA		NA	
Bromomethane	UG/KG	ND	6	ND	6	NA		NA	
2-Butanone	UG/KG	42	29	ND	30	NA		NA	
Carbon Disulfide	UG/KG	1 J	6	ND	6	NA		NA	
Carbon Tetrachloride	UG/KG	ND	6	ND	6	NA		NA	
Chlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
Chloroethane	UG/KG	ND	6	ND	6	NA		NA	
Chloroform	UG/KG	ND	6	ND	6	NA		NA	
Chloromethane	UG/KG	ND	6	ND	6	NA		NA	
Cyclohexane	UG/KG	3 J	6	48	6	NA		NA	
1,2-Dibromoethane	UG/KG	ND	6	ND	6	NA		NA	
Dibromochloromethane	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
Dichlorodifluoromethane	UG/KG	ND	6	ND	6	NA		NA	
1,1-Dichloroethane	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dichloroethane	UG/KG	ND	6	ND	6	NA		NA	
1,1-Dichloroethene	UG/KG	ND	6	ND	6	NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	6	ND	6	NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dichloropropane	UG/KG	ND	6	ND	6	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	6	ND	6	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	6	ND	6	NA		NA	
Ethylbenzene	UG/KG	ND	6	ND	6	NA		NA	
2-Hexanone	UG/KG	ND	29	ND	30	NA		NA	
Isopropylbenzene	UG/KG	ND	6	ND	6	NA		NA	
Methyl acetate	UG/KG	ND	6	ND	6	NA		NA	
Methylcyclohexane	UG/KG	ND	6	ND	6	NA		NA	
Methylene chloride	UG/KG	11	6	ND	6	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	29	ND	30	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	6	ND	6	NA		NA	
Styrene	UG/KG	ND	6	ND	6	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	6	ND	6	NA		NA	
Tetrachloroethene	UG/KG	ND	6	ND	6	NA		NA	
Toluene	UG/KG	ND	6	ND	6	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	6	ND	6	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	6	ND	6	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:18:43

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		GSB-7 (12-16)		GSB-9 (4-8)					
Job No	Lab ID	A05-2260	A5226004	A05-2260	A5226003				
Sample Date		03/10/2005		03/09/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	6	ND	6	NA		NA	
Trichlorofluoromethane	UG/KG	ND	6	ND	6	NA		NA	
Trichloroethene	UG/KG	ND	6	ND	6	NA		NA	
Vinyl chloride	UG/KG	ND	12	3 J	12	NA		NA	
Total Xylenes	UG/KG	ND	17	ND	18	NA		NA	
==========IS/SURROGATE(S)==========									
Chlorobenzene-D5	%	109	50-200	110	50-200	NA		NA	
1,4-Difluorobenzene	%	109	50-200	108	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	99	50-200	97	50-200	NA		NA	
Toluene-D8	%	96	71-125	99	71-125	NA		NA	
p-Bromofluorobenzene	%	88	68-124	88	68-124	NA		NA	
1,2-Dichloroethane-D4	%	86	61-136	85	61-136	NA		NA	

14/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		GSB-1		GSB-3		GSB-5		GSB-6	
Job No	Lab ID	A05-2260	A5226011	A05-2260	A5226012	A05-2260	A5226010	A05-2260	A5226009
Sample Date		03/11/2005		03/11/2005		03/11/2005		03/11/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	4.2 J	5.0	ND	5.0	ND	5.0	4.6 J	5.0
Benzene	UG/L	0.57 J	1.0	ND	1.0	0.45 J	1.0	7.9	1.0
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	UG/L	ND	5.0	ND	5.0	ND	5.0	2.9 J	5.0
Carbon Disulfide	UG/L	0.27 J	1.0	0.31 J	1.0	ND	1.0	1.7	1.0
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	UG/L	0.52 J	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	UG/L	ND	1.0	ND	1.0	ND	1.0	0.41 J	1.0
Chloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Cyclohexane	UG/L	2.1	1.0	5.2	1.0	9.9	1.0	23	1.0
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	0.70 J	1.0
1,4-Dichlorobenzene	UG/L	0.32 J	1.0	ND	1.0	ND	1.0	0.72 J	1.0
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	11	1.0	ND	1.0
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	1.4	1.0
2-Hexanone	UG/L	2.0 J	5.0	ND	5.0	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	1.2	1.0	ND	1.0	0.23 J	1.0	4.5	1.0
Methyl acetate	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylcyclohexane	UG/L	0.62 J	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	UG/L	0.69 J	1.0	ND	1.0	ND	1.0	5.9	1.0
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methyl-t-Butyl Ether (MTBE)	UG/L	0.82 J	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	8.6	1.0	ND	1.0
Toluene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0

NA = Not Applicable ND = Not Detected

Client ID		GSB-1		GSB-3		GSB-5		GSB-6	
Job No	Lab ID	A05-2260	A5226011	A05-2260	A5226012	A05-2260	A5226010	A05-2260	A5226009
Sample Date		03/11/2005		03/11/2005		03/11/2005		03/11/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	UG/L	ND	1.0	ND	1.0	5.5	1.0	ND	1.0
Vinyl chloride	UG/L	ND	1.0	ND	1.0	4.0	1.0	ND	1.0
Total Xylenes	UG/L	0.72 J	3.0	ND	3.0	ND	3.0	13	3.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	88	50-200	89	50-200	90	50-200	89	50-200
1,4-Difluorobenzene	%	88	50-200	89	50-200	91	50-200	91	50-200
1,4-Dichlorobenzene-D4	%	91	50-200	88	50-200	89	50-200	92	50-200
Toluene-D8	%	99	76-116	99	76-116	99	76-116	100	76-116
p-Bromofluorobenzene	%	94	73-117	94	73-117	96	73-117	96	73-117
1,2-Dichloroethane-D4	%	104	72-143	105	72-143	103	72-143	101	72-143

16/89

Client ID		GSB-7		GSB-9					
Job No / Lab ID		A05-2260	A5226008	A05-2260	A5226007				
Sample Date		03/11/2005		03/11/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	4.6 J	5.0	64	5.0	NA		NA	
Benzene	UG/L	0.80 J	1.0	ND	1.0	NA		NA	
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromoform	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromomethane	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Butanone	UG/L	ND	5.0	18	5.0	NA		NA	
Carbon Disulfide	UG/L	1.4	1.0	ND	1.0	NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Chlorobenzene	UG/L	9.7	1.0	ND	1.0	NA		NA	
Chloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroform	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Cyclohexane	UG/L	4.9	1.0	0.91 J	1.0	NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,4-Dichlorobenzene	UG/L	2.3	1.0	ND	1.0	NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
Ethylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Hexanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Isopropylbenzene	UG/L	1.8	1.0	ND	1.0	NA		NA	
Methyl acetate	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylcyclohexane	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylene chloride	UG/L	0.63 J	1.0	ND	1.0	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	1.0	NA		NA	
Styrene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Toluene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		GSB-7		GSB-9					
Job No	Lab ID	A05-2260	A5226008	A05-2260	A5226007				
Sample Date		03/11/2005		03/11/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Vinyl chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Total Xylenes	UG/L	ND	3.0	ND	3.0	NA		NA	
==========IS/SURROGATE(S)==========									
Chlorobenzene-D5	%	86	50-200	87	50-200	NA		NA	
1,4-Difluorobenzene	%	86	50-200	89	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	88	50-200	87	50-200	NA		NA	
Toluene-D8	%	99	76-116	101	76-116	NA		NA	
p-Bromofluorobenzene	%	94	73-117	93	73-117	NA		NA	
1,2-Dichloroethane-D4	%	102	72-143	101	72-143	NA		NA	

18/89

NA = Not Applicable ND = Not Detected

Client ID	GSB-1 (12-16)		GSB-1 (12-16) RI		GSB-10 (16-20)		GSB-3 (16-20)	
Job No Lab ID	A05-2260 A5226002		A05-2260 A5226002RI		A05-2260 A5226006		A05-2260 A5226005	
Sample Date	03/09/2005		03/09/2005		03/10/2005		03/09/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	40000	2000	2000	ND	4000	ND	410
Acenaphthylene	UG/KG	ND	40000	1800 J	2000	ND	4000	ND	410
Anthracene	UG/KG	ND	40000	4100	2000	2300 J	4000	ND	410
Benzo(a)anthracene	UG/KG	ND	40000	7600	2000	3000 J	4000	ND	410
Benzo(b)fluoranthene	UG/KG	ND	40000	12000	2000	2700 J	4000	ND	410
Benzo(k)fluoranthene	UG/KG	ND	40000	13000	2000	ND	4000	ND	410
Benzo(ghi)perylene	UG/KG	ND	40000	ND	2000	ND	4000	ND	410
Benzo(a)pyrene	UG/KG	ND	40000	3800	2000	2300 J	4000	ND	410
Chrysene	UG/KG	ND	40000	10000	2000	2600 J	4000	ND	410
Dibenzo(a,h)anthracene	UG/KG	ND	40000	1500 J	2000	ND	4000	ND	410
Fluoranthene	UG/KG	23000 J	40000	23000	2000	8500	4000	ND	410
Fluorene	UG/KG	ND	40000	5100	2000	2000 J	4000	ND	410
Indeno(1,2,3-cd)pyrene	UG/KG	ND	40000	1800 J	2000	ND	4000	ND	410
2-Methylnaphthalene	UG/KG	ND	40000	5400	2000	ND	4000	ND	410
Naphthalene	UG/KG	ND	40000	3900	2000	ND	4000	ND	410
Phenanthrene	UG/KG	26000 J	40000	25000	2000	9200	4000	180 J	410
Pyrene	UG/KG	15000 J	40000	12000	2000	4800	4000	ND	410
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	83	50-200	102	50-200	84	50-200	88	50-200
Naphthalene-D8	%	91	50-200	101	50-200	92	50-200	93	50-200
Acenaphthene-D10	%	93	50-200	91	50-200	93	50-200	91	50-200
Phenanthrene-D10	%	88	50-200	89	50-200	90	50-200	96	50-200
Chrysene-D12	%	111	50-200	123	50-200	124	50-200	141	50-200
Perylene-D12	%	115	50-200	156	50-200	109	50-200	116	50-200
Nitrobenzene-D5	%	85	30-127	67	30-127	73	30-127	76	30-127
2-Fluorobiphenyl	%	96	36-138	80	36-138	84	36-138	92	36-138
p-Terphenyl-d14	%	76	41-167	66	41-167	60	41-167	68	41-167
Phenol-D5	%	68	34-120	62	34-120	65	34-120	73	34-120
2-Fluorophenol	%	67	26-120	49	26-120	56	26-120	60	26-120
2,4,6-Tribromophenol	%	91	42-140	76	42-140	88	42-140	96	42-140

19/89

Client ID	GSB-6 (4-8)		GSB-6 (4-8) DL		GSB-7 (12-16)		GSB-7 (12-16) RI	
Job No / Lab ID	A05-2260 / A5226001		A05-2260 / A5226001DL		A05-2260 / A5226004		A05-2260 / A5226004RI	
Sample Date	03/10/2005		03/10/2005		03/10/2005		03/10/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	320 J	430	ND	2200	ND	4200	ND	420
Acenaphthylene	UG/KG	280 J	430	ND	2200	ND	4200	ND	420
Anthracene	UG/KG	ND	430	ND	2200	ND	4200	ND	420
Benzo(a)anthracene	UG/KG	460	430	ND	2200	ND	4200	460	420
Benzo(b)fluoranthene	UG/KG	810	430	ND	2200	ND	4200	830	420
Benzo(k)fluoranthene	UG/KG	910	430	ND	2200	ND	4200	940	420
Benzo(ghi)perylene	UG/KG	ND	430	ND	2200	ND	4200	ND	420
Benzo(a)pyrene	UG/KG	210 J	430	ND	2200	2000 J	4200	1500	420
Chrysene	UG/KG	680	430	ND	2200	ND	4200	570	420
Dibenzo(a,h)anthracene	UG/KG	ND	430	ND	2200	ND	4200	340 J	420
Fluoranthene	UG/KG	1400	430	1500 DJ	2200	ND	4200	300 J	420
Fluorene	UG/KG	630	430	ND	2200	ND	4200	ND	420
Indeno(1,2,3-cd)pyrene	UG/KG	ND	430	ND	2200	ND	4200	300 J	420
2-Methylnaphthalene	UG/KG	13000 E	430	13000 D	2200	ND	4200	ND	420
Naphthalene	UG/KG	3200	430	3400 D	2200	ND	4200	ND	420
Phenanthrene	UG/KG	940	430	1000 DJ	2200	ND	4200	220 J	420
Pyrene	UG/KG	1200	430	980 DJ	2200	ND	4200	280 J	420
===IS/SURROGATE(S)===									
1,4-Dichlorobenzene-D4	%	62	50-200	102	50-200	86	50-200	117	50-200
Naphthalene-D8	%	63	50-200	97	50-200	94	50-200	120	50-200
Acenaphthene-D10	%	71	50-200	89	50-200	97	50-200	116	50-200
Phenanthrene-D10	%	71	50-200	97	50-200	99	50-200	112	50-200
Chrysene-D12	%	89	50-200	141	50-200	122	50-200	177	50-200
Perylene-D12	%	100	50-200	142	50-200	118	50-200	139	50-200
Nitrobenzene-D5	%	120	30-127	101	30-127	77	30-127	58	30-127
2-Fluorobiphenyl	%	73	36-138	87	36-138	88	36-138	75	36-138
p-Terphenyl-d14	%	68	41-167	66	41-167	73	41-167	58	41-167
Phenol-D5	%	63	34-120	62	34-120	70	34-120	55	34-120
2-Fluorophenol	%	53	26-120	51	26-120	62	26-120	38	26-120
2,4,6-Tribromophenol	%	87	42-140	86	42-140	96	42-140	85	42-140

20/89

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		GSB-9 (4-8) A05-2260 A5226003 03/09/2005		GSB-9 (4-8) RI A05-2260 A5226003RI 03/09/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	4200	ND	420	NA		NA	
Acenaphthylene	UG/KG	ND	4200	ND	420	NA		NA	
Anthracene	UG/KG	ND	4200	ND	420	NA		NA	
Benzo(a)anthracene	UG/KG	ND	4200	350 J	420	NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	4200	560	420	NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	4200	630	420	NA		NA	
Benzo(ghi)perylene	UG/KG	ND	4200	ND	420	NA		NA	
Benzo(a)pyrene	UG/KG	ND	4200	280 J	420	NA		NA	
Chrysene	UG/KG	ND	4200	360 J	420	NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	4200	ND	420	NA		NA	
Fluoranthene	UG/KG	ND	4200	890	420	NA		NA	
Fluorene	UG/KG	ND	4200	ND	420	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	4200	ND	420	NA		NA	
2-Methylnaphthalene	UG/KG	ND	4200	690	420	NA		NA	
Naphthalene	UG/KG	ND	4200	140 J	420	NA		NA	
Phenanthrene	UG/KG	ND	4200	520	420	NA		NA	
Pyrene	UG/KG	ND	4200	530	420	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	83	50-200	122	50-200	NA		NA	
Naphthalene-D8	%	90	50-200	118	50-200	NA		NA	
Acenaphthene-D10	%	89	50-200	107	50-200	NA		NA	
Phenanthrene-D10	%	88	50-200	103	50-200	NA		NA	
Chrysene-D12	%	116	50-200	158	50-200	NA		NA	
Perylene-D12	%	116	50-200	181	50-200	NA		NA	
Nitrobenzene-D5	%	77	30-127	55	30-127	NA		NA	
2-Fluorobiphenyl	%	94	36-138	68	36-138	NA		NA	
p-Terphenyl-d14	%	67	41-167	51	41-167	NA		NA	
Phenol-D5	%	71	34-120	50	34-120	NA		NA	
2-Fluorophenol	%	61	26-120	37	26-120	NA		NA	
2,4,6-Tribromophenol	%	95	42-140	68	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		GSB-1		GSB-3		GSB-5		GSB-6	
Job No	Lab ID	A05-2260	A5226011	A05-2260	A5226012	A05-2260	A5226010	A05-2260	A5226009
Sample Date		03/11/2005		03/11/2005		03/11/2005		03/11/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	ND	12	3 J	10	5 J	11
Acenaphthylene	UG/L	ND	10	ND	12	ND	10	ND	11
Anthracene	UG/L	ND	10	ND	12	ND	10	ND	11
Benzo(a)anthracene	UG/L	ND	10	ND	12	ND	10	3 J	11
Benzo(b)fluoranthene	UG/L	ND	10	ND	12	ND	10	4 J	11
Benzo(k)fluoranthene	UG/L	ND	10	ND	12	ND	10	ND	11
Benzo(ghi)perylene	UG/L	ND	10	ND	12	ND	10	ND	11
Benzo(a)pyrene	UG/L	ND	10	ND	12	ND	10	ND	11
Chrysene	UG/L	ND	10	ND	12	2 J	10	3 J	11
Dibenzo(a,h)anthracene	UG/L	ND	10	ND	12	ND	10	ND	11
Fluoranthene	UG/L	ND	10	ND	12	5 J	10	8 J	11
Fluorene	UG/L	ND	10	ND	12	2 J	10	3 J	11
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	12	ND	10	ND	11
2-Methylnaphthalene	UG/L	ND	10	ND	12	ND	10	7 J	11
Naphthalene	UG/L	ND	10	ND	12	ND	10	16	11
Phenanthrene	UG/L	ND	10	ND	12	5 J	10	6 J	11
Pyrene	UG/L	ND	10	ND	12	3 J	10	5 J	11
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	89	50-200	88	50-200	84	50-200	86	50-200
Naphthalene-D8	%	95	50-200	96	50-200	90	50-200	90	50-200
Acenaphthene-D10	%	92	50-200	99	50-200	92	50-200	92	50-200
Phenanthrene-D10	%	96	50-200	103	50-200	97	50-200	93	50-200
Chrysene-D12	%	136	50-200	144	50-200	130	50-200	130	50-200
Perylene-D12	%	119	50-200	119	50-200	115	50-200	114	50-200
Nitrobenzene-D5	%	86	34-121	74	34-121	91	34-121	82	34-121
2-Fluorobiphenyl	%	98	42-126	79	42-126	103	42-126	92	42-126
p-Terphenyl-d14	%	55	36-145	42	36-145	68	36-145	53	36-145
Phenol-D5	%	32	10-110	33	10-110	29	10-110	31	10-110
2-Fluorophenol	%	46	14-120	46	14-120	43	14-120	43	14-120
2,4,6-Tribromophenol	%	104	42-158	92	42-158	115	42-158	104	42-158

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:18:57

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Rept: AN0326

Client ID		GSB-7							
Job No	Lab ID	A05-2260	A5226008						
Sample Date		03/11/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	2 J	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	86	50-200	NA		NA		NA	
Naphthalene-D8	%	91	50-200	NA		NA		NA	
Acenaphthene-D10	%	92	50-200	NA		NA		NA	
Phenanthrene-D10	%	95	50-200	NA		NA		NA	
Chrysene-D12	%	135	50-200	NA		NA		NA	
Perylene-D12	%	113	50-200	NA		NA		NA	
Nitrobenzene-D5	%	69	34-121	NA		NA		NA	
2-Fluorobiphenyl	%	74	42-126	NA		NA		NA	
p-Terphenyl-d14	%	38	36-145	NA		NA		NA	
Phenol-D5	%	28	10-110	NA		NA		NA	
2-Fluorophenol	%	41	14-120	NA		NA		NA	
2,4,6-Tribromophenol	%	83	42-158	NA		NA		NA	

23/89

STL Buffalo

NA = Not Applicable ND = Not Detected

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID		GSB-1 (12-16)		GSB-10 (16-20)		GSB-3 (16-20)		GSB-6 (4-8)	
Job No	Lab ID	A05-2260 A5226002		A05-2260 A5226006		A05-2260 A5226005		A05-2260 A5226001	
Sample Date		03/09/2005		03/10/2005		03/09/2005		03/10/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	20	ND	20	ND	21	ND	22
Aroclor 1221	UG/KG	ND	20	ND	20	ND	21	ND	22
Aroclor 1232	UG/KG	ND	20	ND	20	ND	21	ND	22
Aroclor 1242	UG/KG	ND	20	ND	20	340	21	ND	22
Aroclor 1248	UG/KG	ND	20	ND	20	ND	21	ND	22
Aroclor 1254	UG/KG	ND	20	ND	20	220	21	420	22
Aroclor 1260	UG/KG	ND	20	ND	20	ND	21	ND	22
SURROGATE(S)									
Tetrachloro-m-xylene	%	66	32-148	74	32-148	65	32-148	44	32-148
Decachlorobiphenyl	%	368 *	36-153	140	36-153	91	36-153	98	36-153

Client ID		GSB-7 (12-16)		GSB-9 (4-8)					
Job No	Lab ID	A05-2260 A5226004		A05-2260 A5226003					
Sample Date		03/10/2005		03/09/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1221	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1232	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1242	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1248	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1254	UG/KG	ND	21	3000	430	NA		NA	
Aroclor 1260	UG/KG	ND	21	ND	430	NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	151 *	32-148	0 D	32-148	NA		NA	
Decachlorobiphenyl	%	0 *	36-153	0 D	36-153	NA		NA	

24/89

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:02

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID / Job No / Lab ID / Sample Date		GSB-1 A05-2260 03/11/2005	A5226011	GSB-5 A05-2260 03/11/2005	A5226010	GSB-7 A05-2260 03/11/2005	A5226008		
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1221	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1232	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1242	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1248	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1254	UG/L	0.32 J	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1260	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	68	36-132	78	36-132	64	36-132	NA	
Decachlorobiphenyl	%	37	28-132	54	28-132	189 *	28-132	NA	

25/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:19:06

Delta Environmental Consultants, Inc.
Binghamton Project
TOTAL RCRA METALS

Rept: AN0326

Client ID		GSB-1 (12-16)		GSB-10 (16-20)		GSB-3 (16-20)		GSB-6 (4-8)	
Job No	Lab ID	A05-2260	A5226002	A05-2260	A5226006	A05-2260	A5226005	A05-2260	A5226001
Sample Date		03/09/2005		03/10/2005		03/09/2005		03/10/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	5.1	2.4	5.0	2.4	7.3	2.4	76.2	2.6
Barium - Total	MG/KG	148	0.61	140	0.60	332	0.61	304	0.65
Cadmium - Total	MG/KG	ND	0.24	ND	0.24	0.71	0.24	2.2	0.26
Chromium - Total	MG/KG	16.6	0.61	24.8	0.60	38.8	0.61	39.1	0.65
Lead - Total	MG/KG	208	1.2	233	1.2	1200	1.2	863	1.3
Mercury - Total	MG/KG	0.30	0.023	0.34	0.025	0.23	0.026	3.5	0.27
Selenium - Total	MG/KG	ND	4.9	ND	4.8	ND	4.9	68.8	5.2
Silver - Total	MG/KG	2.7	0.61	10.6	0.60	12.8	0.61	ND	0.65

Client ID		GSB-7 (12-16)		GSB-9 (4-8)					
Job No	Lab ID	A05-2260	A5226004	A05-2260	A5226003				
Sample Date		03/10/2005		03/09/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	4.6	2.4	7.9	2.6	NA		NA	
Barium - Total	MG/KG	57.1	0.61	529	0.65	NA		NA	
Cadmium - Total	MG/KG	ND	0.24	2.0	0.26	NA		NA	
Chromium - Total	MG/KG	17.8	0.61	25.9	0.65	NA		NA	
Lead - Total	MG/KG	98.9	1.2	1110	1.3	NA		NA	
Mercury - Total	MG/KG	0.30	0.024	0.34	0.024	NA		NA	
Selenium - Total	MG/KG	ND	4.9	ND	5.2	NA		NA	
Silver - Total	MG/KG	ND	0.61	28.5	0.65	NA		NA	

26/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		GSB-1		GSB-5		GSB-7			
Job No	Lab ID	A05-2260	A5226011	A05-2260	A5226010	A05-2260	A5226008		
Sample Date		03/11/2005		03/11/2005		03/11/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	0.14	0.010	ND	0.010	0.10	0.010	NA	
Barium - Total	MG/L	3.6	0.0020	0.17	0.0020	1.7	0.0020	NA	
Cadmium - Total	MG/L	0.015	0.0010	ND	0.0010	0.0015	0.0010	NA	
Chromium - Total	MG/L	0.21	0.0040	0.0088	0.0040	0.19	0.0040	NA	
Lead - Total	MG/L	4.0	0.0050	0.030	0.0050	1.5	0.0050	NA	
Mercury - Total	MG/L	0.050	0.0020	ND	0.00020	0.017	0.00020	NA	
Selenium - Total	MG/L	ND	0.015	ND	0.015	ND	0.015	NA	
Silver - Total	MG/L	0.088	0.0030	ND	0.0030	0.0041	0.0030	NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Date: 03/18/2005 15:40:39
Batch No: A5B03478

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5226001 A5226001MS A5226001SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL RCRA METALS TOTAL MERCURY	MG/KG	3.47	4.21	4.43	0.404	0.439	184 *	220 *	202	18	20.0	80-120

29/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date: 03/18/2005 15:40:39
Batch No: A5B03347

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5226008 A5226008MS A5226008SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
DELTA - RCRA METALS - W												
DELTA - TOTAL ARSENIC - W	MG/L	0.102	0.268	0.251	0.200	0.200	83	75	79	10	20.0	75-125
DELTA - TOTAL BARIUM - W	MG/L	1.68	1.89	1.81	0.200	0.200	102	63 *	83	47 *	20.0	80-120
DELTA - TOTAL CADMIUM - W	MG/L	0.00150	0.152	0.145	0.200	0.200	75 *	72 *	74	4	20.0	80-120
DELTA - TOTAL CHROMIUM - W	MG/L	0.190	0.346	0.326	0.200	0.200	78 *	68 *	73	14	20.0	80-120
DELTA - TOTAL LEAD - W	MG/L	1.52	1.69	1.62	0.200	0.200	88	50 *	69	55 *	20.0	80-120
DELTA - TOTAL SELENIUM - W	MG/L	0.0133	0.159	0.153	0.200	0.200	73 *	70 *	72	4	20.0	80-120
DELTA - TOTAL SILVER - W	MG/L	0.00410	0.0429	0.0419	0.0500	0.0500	78	76	77	2	20.0	75-125

30/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date: 03/18/2005 15:40:39
Batch No: A5B03478

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5234301 A5234301MS A5234301SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS TOTAL MERCURY	MG/KG	0.0211	0.381	0.362	0.408	0.391	88	87	88	1	20.0	80-120

31/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Date: 03/24/2005
Time: 16:19:25

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		VBLK82		VBLK83		VBLK84			
Job No	Lab ID	A05-2260	A5B0352902	A05-2260	A5B0352903	A05-2260	A5B0358702		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	ND	25	NA	
Benzene	UG/KG	ND	5	ND	5	ND	5	NA	
Bromodichloromethane	UG/KG	ND	5	ND	5	ND	5	NA	
Bromoform	UG/KG	ND	5	ND	5	ND	5	NA	
Bromomethane	UG/KG	1 J	5	ND	5	1 J	5	NA	
2-Butanone	UG/KG	ND	25	ND	25	ND	25	NA	
Carbon Disulfide	UG/KG	ND	5	ND	5	ND	5	NA	
Carbon Tetrachloride	UG/KG	ND	5	ND	5	ND	5	NA	
Chlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
Chloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
Chloroform	UG/KG	ND	5	ND	5	ND	5	NA	
Chloromethane	UG/KG	ND	5	ND	5	ND	5	NA	
Cyclohexane	UG/KG	ND	5	ND	5	ND	5	NA	
1,2-Dibromoethane	UG/KG	ND	5	ND	5	ND	5	NA	
Dibromochloromethane	UG/KG	ND	5	ND	5	ND	5	NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	ND	5	NA	
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
1,4-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
Dichlorodifluoromethane	UG/KG	ND	5	ND	5	ND	5	NA	
1,1-Dichloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
1,2-Dichloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
1,1-Dichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
1,2-Dichloropropane	UG/KG	ND	5	ND	5	ND	5	NA	
cis-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND	5	NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND	5	NA	
Ethylbenzene	UG/KG	ND	5	ND	5	ND	5	NA	
2-Hexanone	UG/KG	ND	25	ND	25	ND	25	NA	
Isopropylbenzene	UG/KG	ND	5	ND	5	ND	5	NA	
Methyl acetate	UG/KG	ND	5	ND	5	ND	5	NA	
Methylcyclohexane	UG/KG	ND	5	ND	5	ND	5	NA	
Methylene chloride	UG/KG	ND	5	ND	5	ND	5	NA	
4-Methyl-2-pentanone	UG/KG	ND	25	ND	25	ND	25	NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	ND	5	ND	5	NA	
Styrene	UG/KG	ND	5	ND	5	ND	5	NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
Tetrachloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
Toluene	UG/KG	ND	5	ND	5	ND	5	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
1,1,1-Trichloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
1,1,2-Trichloroethane	UG/KG	ND	5	ND	5	ND	5	NA	

STL Buffalo

NA = Not Applicable ND = Not Detected

Client ID		VBLK82		VBLK83		VBLK84			
Job No	Lab ID	A05-2260	A5B0352902	A05-2260	A5B0352903	A05-2260	A5B0358702		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	5	ND	5	ND	5	NA	
Trichlorofluoromethane	UG/KG	ND	5	ND	5	ND	5	NA	
Trichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
Vinyl chloride	UG/KG	ND	10	ND	10	ND	10	NA	
Total Xylenes	UG/KG	ND	15	ND	15	ND	15	NA	
==IS/SURROGATE(S)==									
Chlorobenzene-D5	%	80	50-200	82	50-200	85	50-200	NA	
1,4-Difluorobenzene	%	80	50-200	81	50-200	88	50-200	NA	
1,4-Dichlorobenzene-D4	%	71	50-200	72	50-200	76	50-200	NA	
Toluene-D8	%	99	71-125	99	71-125	96	71-125	NA	
p-Bromofluorobenzene	%	84	68-124	87	68-124	86	68-124	NA	
1,2-Dichloroethane-D4	%	87	61-136	77	61-136	85	61-136	NA	

34/89

NA = Not Applicable ND = Not Detected

Client ID		VBLK75							
Job No	Lab ID	A05-2260	A5B0354702						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Cyclohexane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	1.0	NA		NA		NA	
Methyl acetate	UG/L	ND	1.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	1.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		VBLK75							
Job No	Lab ID	A05-2260	A5B0354702						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
======IS/SURROGATE(S)=									
Chlorobenzene-D5	%	91	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	91	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	88	50-200	NA		NA		NA	
Toluene-D8	%	99	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	94	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	106	72-143	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:25

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		MSB83		MSB84					
Job No	Lab ID	A05-2260	A5B0352901	A05-2260	A5B0358701				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	NA		NA	
Benzene	UG/KG	45	5	50	5	NA		NA	
Bromodichloromethane	UG/KG	ND	5	ND	5	NA		NA	
Bromoform	UG/KG	ND	5	ND	5	NA		NA	
Bromomethane	UG/KG	2 J	5	2 BJ	5	NA		NA	
2-Butanone	UG/KG	ND	25	ND	25	NA		NA	
Carbon Disulfide	UG/KG	ND	5	ND	5	NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	ND	5	NA		NA	
Chlorobenzene	UG/KG	48	5	49	5	NA		NA	
Chloroethane	UG/KG	ND	5	ND	5	NA		NA	
Chloroform	UG/KG	ND	5	ND	5	NA		NA	
Chloromethane	UG/KG	ND	5	ND	5	NA		NA	
Cyclohexane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dibromoethane	UG/KG	ND	5	ND	5	NA		NA	
Dibromochloromethane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
Dichlorodifluoromethane	UG/KG	ND	5	ND	5	NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,1-Dichloroethene	UG/KG	36	5	53	5	NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichloropropane	UG/KG	ND	5	ND	5	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	5	ND	5	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	NA		NA	
Ethylbenzene	UG/KG	ND	5	ND	5	NA		NA	
2-Hexanone	UG/KG	ND	25	ND	25	NA		NA	
Isopropylbenzene	UG/KG	ND	5	ND	5	NA		NA	
Methyl acetate	UG/KG	ND	5	ND	5	NA		NA	
Methylcyclohexane	UG/KG	ND	5	ND	5	NA		NA	
Methylene chloride	UG/KG	ND	5	ND	5	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	25	ND	25	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	ND	5	NA		NA	
Styrene	UG/KG	ND	5	ND	5	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	ND	5	NA		NA	
Tetrachloroethene	UG/KG	ND	5	ND	5	NA		NA	
Toluene	UG/KG	48	5	49	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	5	ND	5	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		MSB83		MSB84					
Job No	Lab ID	A05-2260	A5B0352901	A05-2260	A5B0358701				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	5	ND	5	NA		NA	
Trichlorofluoromethane	UG/KG	ND	5	ND	5	NA		NA	
Trichloroethene	UG/KG	44	5	49	5	NA		NA	
Vinyl chloride	UG/KG	ND	10	ND	10	NA		NA	
Total Xylenes	UG/KG	ND	15	ND	15	NA		NA	
=IS/SURROGATE(S)=									
Chlorobenzene-D5	%	87	50-200	93	50-200	NA		NA	
1,4-Difluorobenzene	%	87	50-200	93	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	77	50-200	86	50-200	NA		NA	
Toluene-D8	%	97	71-125	93	71-125	NA		NA	
p-Bromofluorobenzene	%	86	68-124	85	68-124	NA		NA	
1,2-Dichloroethane-D4	%	87	61-136	86	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:25

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		MSB75							
Job No	Lab ID	A05-2260	A5B0354701						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	40	5.0	NA		NA		NA	
Benzene	UG/L	10	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	10	1.0	NA		NA		NA	
Bromoform	UG/L	10	1.0	NA		NA		NA	
Bromomethane	UG/L	8.1	1.0	NA		NA		NA	
2-Butanone	UG/L	51	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	6.6	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	10	1.0	NA		NA		NA	
Chlorobenzene	UG/L	9.8	1.0	NA		NA		NA	
Chloroethane	UG/L	8.9	1.0	NA		NA		NA	
Chloroform	UG/L	10	1.0	NA		NA		NA	
Chloromethane	UG/L	8.3	1.0	NA		NA		NA	
Cyclohexane	UG/L	9.8	1.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	10	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	10	1.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	10	1.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	9.8	1.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	9.8	1.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	9.8	1.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	10	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	10	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	11	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	8.9	1.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	10	1.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	9.7	1.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	10	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	10	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	10	1.0	NA		NA		NA	
Ethylbenzene	UG/L	10	1.0	NA		NA		NA	
2-Hexanone	UG/L	52	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	10	1.0	NA		NA		NA	
Methyl acetate	UG/L	6.4	1.0	NA		NA		NA	
Methylcyclohexane	UG/L	9.9	1.0	NA		NA		NA	
Methylene chloride	UG/L	9.2	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	52	5.0	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	10	1.0	NA		NA		NA	
Styrene	UG/L	10	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	9.8	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	10	1.0	NA		NA		NA	
Toluene	UG/L	9.8	1.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	10	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	10	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	9.8	1.0	NA		NA		NA	

39/89

STL Buffalo

NA = Not Applicable ND = Not Detected

Client ID		MSB75							
Job No	Lab ID	A05-2260	A5B0354701						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	8.4	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	9.6	1.0	NA		NA		NA	
Trichloroethene	UG/L	9.9	1.0	NA		NA		NA	
Vinyl chloride	UG/L	9.1	1.0	NA		NA		NA	
Total Xylenes	UG/L	30	3.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	91	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	89	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	94	50-200	NA		NA		NA	
Toluene-D8	%	99	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	96	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	104	72-143	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		TRIP BLANK							
Job No	Lab ID	A05-2260	A5226013						
Sample Date		03/11/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Cyclohexane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	1.0	NA		NA		NA	
Methyl acetate	UG/L	ND	1.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	1.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		TRIP BLANK							
Job No	Lab ID	A05-2260	A5226013						
Sample Date		03/11/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
=IS/SURROGATE(S)									
Chlorobenzene-D5	%	83	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	85	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	79	50-200	NA		NA		NA	
Toluene-D8	%	101	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	94	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	103	72-143	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:39

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Rept: AN0326

Client ID		SBLK							
Job No	Lab ID	A05-2260	A5B0334302						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	320	NA		NA		NA	
Acenaphthylene	UG/KG	ND	320	NA		NA		NA	
Anthracene	UG/KG	ND	320	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	320	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	320	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	320	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	320	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	320	NA		NA		NA	
Chrysene	UG/KG	ND	320	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	320	NA		NA		NA	
Fluoranthene	UG/KG	ND	320	NA		NA		NA	
Fluorene	UG/KG	ND	320	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	320	NA		NA		NA	
2-Methylnaphthalene	UG/KG	ND	320	NA		NA		NA	
Naphthalene	UG/KG	ND	320	NA		NA		NA	
Phenanthrene	UG/KG	ND	320	NA		NA		NA	
Pyrene	UG/KG	ND	320	NA		NA		NA	
==========IS/SURROGATE(S)==========									
1,4-Dichlorobenzene-D4	%	98	50-200	NA		NA		NA	
Naphthalene-D8	%	103	50-200	NA		NA		NA	
Acenaphthene-D10	%	104	50-200	NA		NA		NA	
Phenanthrene-D10	%	101	50-200	NA		NA		NA	
Chrysene-D12	%	116	50-200	NA		NA		NA	
Perylene-D12	%	136	50-200	NA		NA		NA	
Nitrobenzene-D5	%	84	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	95	36-138	NA		NA		NA	
p-Terphenyl-d14	%	86	41-167	NA		NA		NA	
Phenol-D5	%	81	34-120	NA		NA		NA	
2-Fluorophenol	%	74	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	96	42-140	NA		NA		NA	

STL Buffalo

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-2260	A5B0334503						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	84	50-200	NA		NA		NA	
Naphthalene-D8	%	91	50-200	NA		NA		NA	
Acenaphthene-D10	%	92	50-200	NA		NA		NA	
Phenanthrene-D10	%	96	50-200	NA		NA		NA	
Chrysene-D12	%	129	50-200	NA		NA		NA	
Perylene-D12	%	109	50-200	NA		NA		NA	
Nitrobenzene-D5	%	85	34-121	NA		NA		NA	
2-Fluorobiphenyl	%	99	42-126	NA		NA		NA	
p-Terphenyl-d14	%	86	36-145	NA		NA		NA	
Phenol-D5	%	29	10-110	NA		NA		NA	
2-Fluorophenol	%	42	14-120	NA		NA		NA	
2,4,6-Tribromophenol	%	120	42-158	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:39

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Rept: AN0326

Client ID		GSB-6 (4-8)		GSB-6 (4-8)		Matrix Spike Blank			
Job No / Lab ID		A05-2260	A5226001MS	A05-2260	A5226001SD	A05-2260	A5B0334301		
Sample Date		03/10/2005		03/10/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	3400	430	3300	430	2800	320	NA	
Acenaphthylene	UG/KG	270 J	430	240 J	430	ND	320	NA	
Anthracene	UG/KG	ND	430	ND	430	ND	320	NA	
Benzo(a)anthracene	UG/KG	400 J	430	370 J	430	ND	320	NA	
Benzo(b)fluoranthene	UG/KG	830	430	780	430	ND	320	NA	
Benzo(k)fluoranthene	UG/KG	940	430	880	430	ND	320	NA	
Benzo(ghi)perylene	UG/KG	ND	430	ND	430	ND	320	NA	
Benzo(a)pyrene	UG/KG	200 J	430	200 J	430	ND	320	NA	
Chrysene	UG/KG	650	430	600	430	ND	320	NA	
Dibenzo(a,h)anthracene	UG/KG	ND	430	ND	430	ND	320	NA	
Fluoranthene	UG/KG	1400	430	1500	430	ND	320	NA	
Fluorene	UG/KG	570	430	520	430	ND	320	NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	430	ND	430	ND	320	NA	
2-Methylnaphthalene	UG/KG	12000 E	430	11000 E	430	ND	320	NA	
Naphthalene	UG/KG	3200	430	2800	430	ND	320	NA	
Phenanthrene	UG/KG	830	430	810	430	ND	320	NA	
Pyrene	UG/KG	3500	430	3200	430	2800	320	NA	
==IS/SURROGATE(S)==									
1,4-Dichlorobenzene-D4	%	90	50-200	86	50-200	97	50-200	NA	
Naphthalene-D8	%	93	50-200	88	50-200	103	50-200	NA	
Acenaphthene-D10	%	102	50-200	97	50-200	105	50-200	NA	
Phenanthrene-D10	%	105	50-200	101	50-200	102	50-200	NA	
Chrysene-D12	%	155	50-200	164	50-200	114	50-200	NA	
Perylene-D12	%	153	50-200	136	50-200	136	50-200	NA	
Nitrobenzene-D5	%	118	30-127	114	30-127	78	30-127	NA	
2-Fluorobiphenyl	%	76	36-138	74	36-138	90	36-138	NA	
p-Terphenyl-d14	%	60	41-167	55	41-167	84	41-167	NA	
Phenol-D5	%	64	34-120	59	34-120	75	34-120	NA	
2-Fluorophenol	%	55	26-120	51	26-120	69	26-120	NA	
2,4,6-Tribromophenol	%	83	42-140	79	42-140	96	42-140	NA	

45/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A05-2260 A5B0334501		Matrix Spike Blk Dup A05-2260 A5B0334502					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	90	10	84	10	NA		NA	
Acenaphthylene	UG/L	ND	10	ND	10	NA		NA	
Anthracene	UG/L	ND	10	ND	10	NA		NA	
Benzo(a)anthracene	UG/L	ND	10	ND	10	NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	ND	10	NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	ND	10	NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	ND	10	NA		NA	
Benzo(a)pyrene	UG/L	ND	10	ND	10	NA		NA	
Chrysene	UG/L	ND	10	ND	10	NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	ND	10	NA		NA	
Fluoranthene	UG/L	ND	10	ND	10	NA		NA	
Fluorene	UG/L	ND	10	ND	10	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	10	NA		NA	
2-Methylnaphthalene	UG/L	ND	10	ND	10	NA		NA	
Naphthalene	UG/L	ND	10	ND	10	NA		NA	
Phenanthrene	UG/L	ND	10	ND	10	NA		NA	
Pyrene	UG/L	86	10	84	10	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	82	50-200	83	50-200	NA		NA	
Naphthalene-D8	%	90	50-200	92	50-200	NA		NA	
Acenaphthene-D10	%	95	50-200	96	50-200	NA		NA	
Phenanthrene-D10	%	95	50-200	96	50-200	NA		NA	
Chrysene-D12	%	123	50-200	129	50-200	NA		NA	
Perylene-D12	%	102	50-200	108	50-200	NA		NA	
Nitrobenzene-D5	%	90	34-121	80	34-121	NA		NA	
2-Fluorobiphenyl	%	99	42-126	90	42-126	NA		NA	
p-Terphenyl-d14	%	79	36-145	78	36-145	NA		NA	
Phenol-D5	%	31	10-110	29	10-110	NA		NA	
2-Fluorophenol	%	44	14-120	41	14-120	NA		NA	
2,4,6-Tribromophenol	%	116	42-158	111	42-158	NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:44

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Method Blank A05-2260	A5B0337302						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	
Aroclor 1221	UG/KG	ND	16	NA		NA		NA	
Aroclor 1232	UG/KG	ND	16	NA		NA		NA	
Aroclor 1242	UG/KG	ND	16	NA		NA		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA		NA	
Aroclor 1254	UG/KG	ND	16	NA		NA		NA	
Aroclor 1260	UG/KG	ND	16	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	82	32-148	NA		NA		NA	
Decachlorobiphenyl	%	88	36-153	NA		NA		NA	

47/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:19:44

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID		Method Blank							
Job No	Lab ID	A05-2260	A5B033780Z						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1221	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1232	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1242	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1248	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1254	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1260	UG/L	ND	0.50	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	70	36-132	NA		NA		NA	
Decachlorobiphenyl	%	68	28-132	NA		NA		NA	

48/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-2260	A5B0337301						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	
Aroclor 1221	UG/KG	ND	16	NA		NA		NA	
Aroclor 1232	UG/KG	ND	16	NA		NA		NA	
Aroclor 1242	UG/KG	ND	16	NA		NA		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA		NA	
Aroclor 1254	UG/KG	160	16	NA		NA		NA	
Aroclor 1260	UG/KG	ND	16	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	82	32-148	NA		NA		NA	
Decachlorobiphenyl	%	84	36-153	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-2260	A5B0337801						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	4.5	0.50	NA		NA		NA	
Aroclor 1221	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1232	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1242	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1248	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1254	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1260	UG/L	4.6	0.50	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	70	36-132	NA		NA		NA	
Decachlorobiphenyl	%	69	28-132	NA		NA		NA	

50/89

NA = Not Applicable ND = Not Detected

Client ID Job No Sample Date	Lab ID	Method Blank A05-2260	A5B0334602	Method Blank A05-2260	A5B0347802				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Selenium - Total	MG/KG	ND	4.0	NA		NA		NA	
Arsenic - Total	MG/KG	ND	2.0	NA		NA		NA	
Barium - Total	MG/KG	ND	0.50	NA		NA		NA	
Cadmium - Total	MG/KG	ND	0.20	NA		NA		NA	
Chromium - Total	MG/KG	ND	0.50	NA		NA		NA	
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	
Silver - Total	MG/KG	ND	0.50	NA		NA		NA	
Mercury - Total	MG/KG	NA		ND	0.020	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-2260 A5B0334702		Method Blank A05-2260 A5B0339202					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Barium - Total	MG/L	ND	0.0020	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0040	NA		NA		NA	
Lead - Total	MG/L	ND	0.0050	NA		NA		NA	
Mercury - Total	MG/L	NA		ND	0.00020	NA		NA	
Selenium - Total	MG/L	ND	0.015	NA		NA		NA	
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	

52/89

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:49

Delta Environmental Consultants, Inc.
Binghamton Project
TOTAL RCRA METALS

Rept: AN0326

Client ID		GSB-6 (4-8)		GSB-6 (4-8)		LCS		LCS CLP Soils	
Job No	Lab ID	A05-2260	A5226001MS	A05-2260	A5226001SD	A05-2260	A5B0347801	A05-2260	A5B0334601
Sample Date		03/10/2005		03/10/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	53.0	2.6	70.2	2.6	NA		276	2.0
Barium - Total	MG/KG	173	0.66	270	0.65	NA		268	0.50
Cadmium - Total	MG/KG	19.5	0.26	17.4	0.26	NA		83.1	0.20
Chromium - Total	MG/KG	44.9	0.66	90.4	0.65	NA		95.5	0.50
Lead - Total	MG/KG	577	1.3	1100	1.3	NA		98.2	1.0
Mercury - Total	MG/KG	4.2	0.24	4.4	0.26	1.9	0.10	NA	
Selenium - Total	MG/KG	36.7	5.3	50.3	5.2	NA		79.9	4.0
Silver - Total	MG/KG	5.1	0.66	4.7	0.65	NA		89.7	0.50

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID / Job No / Sample Date	Lab ID	GSB-7 A05-2260 03/11/2005	A5226008MS	GSB-7 A05-2260 03/11/2005	A5226008SD	LCS A05-2260	A5B0339201	LFB A05-2260	A5B0334701
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	0.27	0.010	0.25	0.010	NA		0.21	0.010
Barium - Total	MG/L	1.9	0.0020	1.8	0.0020	NA		0.20	0.0020
Cadmium - Total	MG/L	0.15	0.0010	0.14	0.0010	NA		0.20	0.0010
Chromium - Total	MG/L	0.35	0.0040	0.33	0.0040	NA		0.20	0.0040
Lead - Total	MG/L	1.7	0.0050	1.6	0.0050	NA		0.21	0.0050
Mercury - Total	MG/L	0.021	0.0010	0.021	0.0010	0.0035	0.00020	NA	
Selenium - Total	MG/L	0.16	0.015	0.15	0.015	NA		0.20	0.015
Silver - Total	MG/L	0.043	0.0030	0.042	0.0030	NA		0.050	0.0030

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK75 MSB75
Lab Sample ID: A5B0354702 A5B0354701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8260/25 ML - TCL VOLATILE					
1,1-Dichloroethene	UG/L	8.89	10.0	89	65-138
Trichloroethene	UG/L	9.92	10.0	99	71-120
Benzene	UG/L	10.0	10.0	100	67-126
Toluene	UG/L	9.77	10.0	98	71-120
Chlorobenzene	UG/L	9.81	10.0	98	74-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK83 MSB83
Lab Sample ID: A5B0352903 A5B0352901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA-METHOD 8260 - TCL VOLATILE ORGANIC					
1,1-Dichloroethene	UG/KG	35.7	50.0	71	65-146
Trichloroethene	UG/KG	44.3	50.0	89	74-127
Benzene	UG/KG	44.6	50.0	89	74-128
Toluene	UG/KG	48.3	50.0	97	74-123
Chlorobenzene	UG/KG	48.1	50.0	96	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK84 MSB84
Lab Sample ID: A5B0358702 A5B0358701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA-METHOD 8260 - TCL VOLATILE ORGANIC					
1,1-Dichloroethene	UG/KG	53.4	50.0	107	65-146
Trichloroethene	UG/KG	48.9	50.0	98	74-127
Benzene	UG/KG	49.9	50.0	100	74-128
Toluene	UG/KG	49.4	50.0	99	74-123
Chlorobenzene	UG/KG	48.9	50.0	98	76-124

57/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/10/2005

Client Sample ID: GSB-6 (4-8)	GSB-6 (4-8)	GSB-6 (4-8)	
Lab Sample ID: A5226001	A5226001MS	A5226001SD	

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
DELTA - METHOD 8270-HSL POLYNUCLEAR AROM												
Acenaphthene	UG/KG	322	3443	3322	4327	4309	72	70	71	3	16.0	49-131
Pyrene	UG/KG	1200	3530	3233	4327	4309	54	47 *	51	14	25.0	48-154

58/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK Matrix Spike Blank
Lab Sample ID: A5B0334302 A5B0334301

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8270-HSL POLYNUCLEAR AROM					
Acenaphthene	UG/KG	2754	3277	84	49-131
Pyrene	UG/KG	2803	3277	86	48-154

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK | Matrix Spike Blank | Matrix Spike Blk Dup
Lab Sample ID: A5B0334503 | A5B0334501 | A5B0334502

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			% RPD	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		RPD	REC.
DELTA - METHOD 8270-HSL POLYNUCLEAR AROM											
Acenaphthene	UG/L	90.3	84.0	100	100	90	84	87	7	23.0	46-121
Pyrene	UG/L	86.5	84.5	100	100	86	84	85	2	25.0	53-142

68/09

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A5B0337302

Matrix Spike Blank
A5B0337301

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8082 - POLYCHLORINATED BI Aroclor 1254	UG/KG	156	162	97	52-153

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A5B0337802

Matrix Spike Blank
A5B0337801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8082 - POLYCHLORINATED BI					
Aroclor 1260	UG/L	4.59	5.00	92	50-122
Aroclor 1016	UG/L	4.49	5.00	90	29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/10/2005

Client Sample ID: GSB-6 (4-8) GSB-6 (4-8) GSB-6 (4-8)
Lab Sample ID: A5226001 A5226001MS A5226001SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
TOTAL RCRA METALS												
TOTAL ARSENIC	MG/KG	76.19	52.99	70.20	26.31	26.05	-88 *	-23 *	-56	117 *	20.0	80-120
TOTAL BARIUM	MG/KG	304.2	173.3	270.2	26.31	26.05	-498 *	-130 *	-314	117 *	20.0	80-120
TOTAL CADMIUM	MG/KG	2.19	19.49	17.36	26.31	26.05	66 *	58 *	62	13	20.0	80-120
TOTAL CHROMIUM	MG/KG	39.13	44.90	90.41	26.31	26.05	22 *	197 *	110	160 *	20.0	80-120
TOTAL LEAD	MG/KG	863.0	577.1	1105	26.31	26.05	-999 *	931 *	-34	2540 *	20.0	80-120
TOTAL MERCURY	MG/KG	3.47	4.21	4.43	0.404	0.439	184 *	220 *	202	18	20.0	80-120
TOTAL SELENIUM	MG/KG	68.78	36.67	50.26	26.31	26.05	-122 *	-71 *	-97	53 *	20.0	80-120
TOTAL SILVER	MG/KG	0.624	5.14	4.71	6.57	6.51	69 *	63 *	66	9	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/11/2005

Client Sample ID: GSB-7	GSB-7	GSB-7
Lab Sample ID: A5226008	A5226008MS	A5226008SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
DELTA - RCRA METALS - W												
DELTA - TOTAL ARSENIC - W	MG/L	0.102	0.268	0.251	0.200	0.200	83	75	79	10	20.0	75-125
DELTA - TOTAL BARIUM - W	MG/L	1.68	1.89	1.81	0.200	0.200	102	63 *	83	47 *	20.0	80-120
DELTA - TOTAL CADMIUM - W	MG/L	0.00150	0.152	0.145	0.200	0.200	75 *	72 *	74	4	20.0	80-120
DELTA - TOTAL CHROMIUM - W	MG/L	0.190	0.346	0.326	0.200	0.200	78 *	68 *	73	14	20.0	80-120
DELTA - TOTAL LEAD - W	MG/L	1.52	1.69	1.62	0.200	0.200	88	50 *	69	55 *	20.0	80-120
DELTA - TOTAL MERCURY - W	MG/L	0.0166	0.0210	0.0212	0.00666	0.00666	66 *	69 *	68	4	20.0	80-120
DELTA - TOTAL SELENIUM - W	MG/L	0.0133	0.159	0.153	0.200	0.200	73 *	70 *	72	4	20.0	80-120
DELTA - TOTAL SILVER - W	MG/L	0.00410	0.0429	0.0419	0.0500	0.0500	78	76	77	2	20.0	75-125

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0334602 A5B0334601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL RCRA METALS					
TOTAL ARSENIC	MG/KG	276.4	300.0	92	80-120
TOTAL BARIUM	MG/KG	267.6	297.0	90	80-120
TOTAL CADMIUM	MG/KG	83.13	93.70	89	80-120
TOTAL CHROMIUM	MG/KG	95.46	105.0	91	80-120
TOTAL LEAD	MG/KG	98.19	105.0	93	80-120
TOTAL SELENIUM	MG/KG	79.89	82.80	96	80-120
TOTAL SILVER	MG/KG	89.67	93.20	96	80-120

65/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LFB
Lab Sample ID: A5B0334702 A5B0334701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - RCRA METALS - W					
DELTA - TOTAL ARSENIC - W	MG/L	0.211	0.200	106	80-120
DELTA - TOTAL BARIUM - W	MG/L	0.196	0.200	98	80-120
DELTA - TOTAL CADMIUM - W	MG/L	0.205	0.200	103	80-120
DELTA - TOTAL CHROMIUM - W	MG/L	0.202	0.200	101	80-120
DELTA - TOTAL LEAD - W	MG/L	0.214	0.200	107	80-120
DELTA - TOTAL SELENIUM - W	MG/L	0.204	0.200	102	80-120
DELTA - TOTAL SILVER - W	MG/L	0.0500	0.0500	100	80-120

68/99

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A5B0339202 A5B0339201

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - RCRA METALS - W DELTA - TOTAL MERCURY - W	MG/L	0.00350	0.00333	105	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

lient Sample ID: Method Blank LCS
Lab Sample ID: A5B0347802 A5B0347801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL RCRA METALS					
TOTAL MERCURY	MG/KG	1.94	1.80	108	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-10 (16-20) A05-2260 A5226006	GSB-3 A05-2260 A5226012	GSB-3 (16-20) A05-2260 A5226005
Sample Date		03/09/2005 12:40	03/10/2005 17:00		03/09/2005 14:00
Received Date		03/12/2005 12:15	03/12/2005 12:15		03/12/2005 12:15
Extraction Date					
Analysis Date		03/16/2005 19:23	03/17/2005 18:14		03/17/2005 17:42
Extraction HT Met?	NA	-	-	NA	-
Analytical HT Met?		YES	YES		YES
Sample Matrix		SOIL LOW	SOIL LOW		SOIL LOW
Dilution Factor		1.0	1.0		1.0
Sample wt/vol		5.07 GRAMS	5.09 GRAMS		5.13 GRAMS
% Dry		81.54	82.46		81.02

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-10 (16-20) A05-2260 A5226006	GSB-3 A05-2260 A5226012	GSB-3 (16-20) A05-2260 A5226005
Sample Date	03/11/2005 09:55			03/11/2005 10:15	
Received Date	03/12/2005 12:15			03/12/2005 12:15	
Extraction Date					
Analysis Date	03/17/2005 04:44			03/17/2005 05:16	
Extraction HT Met?	-	NA	NA	-	NA
Analytical HT Met?	YES			YES	
Sample Matrix	WATER			WATER	
Dilution Factor	1.0			1.0	
Sample wt/vol	0.025 LITERS			0.025 LITERS	
% Dry					

NA = Not Applicable

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-5 A05-2260 A5226010	GSB-6 A05-2260 A5226009	GSB-6 (4-8) A05-2260 A5226001	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004
Sample Date			03/10/2005 08:20		03/10/2005 15:00
Received Date			03/12/2005 12:15		03/12/2005 12:15
Extraction Date					
Analysis Date			03/16/2005 19:04		03/16/2005 23:35
Extraction HT Met?	NA	NA	-	NA	-
Analytical HT Met?			YES		YES
Sample Matrix			SOIL LOW		SOIL LOW
Dilution Factor			1.0		1.0
Sample wt/vol			5.0 GRAMS		5.04 GRAMS
% Dry			87.97		85.65

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-5 A05-2260 A5226010	GSB-6 A05-2260 A5226009	GSB-6 (4-8) A05-2260 A5226001	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004
Sample Date	03/11/2005 09:35	03/11/2005 09:15		03/11/2005 08:50	
Received Date	03/12/2005 12:15	03/12/2005 12:15		03/12/2005 12:15	
Extraction Date					
Analysis Date	03/17/2005 04:11	03/17/2005 03:39		03/17/2005 03:07	
Extraction HT Met?	-	-	NA	-	NA
Analytical HT Met?	YES	YES		YES	
Sample Matrix	WATER	WATER		WATER	
Dilution Factor	1.0	1.0		1.0	
Sample wt/vol	0.025 LITERS	0.025 LITERS		0.025 LITERS	
% Dry					

70/89

NA = Not Applicable

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-9 A05-2260 A5226007	GSB-9 (4-8) A05-2260 A5226003			
Sample Date		03/09/2005 16:10			
Received Date		03/12/2005 12:15			
Extraction Date					
Analysis Date		03/16/2005 19:41			
Extraction HT Met?	NA	-			
Analytical HT Met?		YES			
Sample Matrix		SOIL LOW			
Dilution Factor		1.0			
Sample wt/vol		5.0 GRAMS			
% Dry		81.84			

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-9 A05-2260 A5226007	GSB-9 (4-8) A05-2260 A5226003			
Sample Date	03/11/2005 08:25				
Received Date	03/12/2005 12:15				
Extraction Date					
Analysis Date	03/17/2005 02:35				
Extraction HT Met?	-	NA			
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

71/89

NA = Not Applicable

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID *Job No & Lab Sample ID*	TRIP BLANK A05-2260 A5226013				
Sample Date	03/11/2005				
Received Date	03/12/2005 12:15				
Extraction Date					
Analysis Date	03/17/2005 05:49				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

NA = Not Applicable

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MSB75 A05-2260 A5B0354701	MSB83 A05-2260 A5B0352901	MSB84 A05-2260 A5B0358701		
Sample Date					
Received Date					
Extraction Date					
Analysis Date		03/16/2005 15:55	03/17/2005 15:33		
Extraction HT Met?	NA	-	-		
Analytical HT Met?		-	-		
Sample Matrix		SOIL LOW	SOIL LOW		
Dilution Factor		1.0	1.0		
Sample wt/vol		5.0 GRAMS	5.0 GRAMS		
% Dry		100.00	100.00		

DELTA - METHOD 8260/25 ML ~ TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MSB75 A05-2260 A5B0354701	MSB83 A05-2260 A5B0352901	MSB84 A05-2260 A5B0358701		
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/17/2005 02:02				
Extraction HT Met?	-	NA	NA		
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

73/89

NA = Not Applicable

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	VBLK75 A05-2260 A5B0354702	VBLK82 A05-2260 A5B0352902	VBLK83 A05-2260 A5B0352903	VBLK84 A05-2260 A5B0358702	
Sample Date					
Received Date					
Extraction Date					
Analysis Date		03/16/2005 16:31	03/16/2005 16:13	03/17/2005 16:05	
Extraction HT Met?	NA	-	-	-	
Analytical HT Met?		-	-	-	
Sample Matrix		SOIL LOW	SOIL LOW	SOIL LOW	
Dilution Factor		1.0	1.0	1.0	
Sample wt/vol		5.0 GRAMS	5.0 GRAMS	5.0 GRAMS	
% Dry		100.00	100.00	100.00	

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	VBLK75 A05-2260 A5B0354702	VBLK82 A05-2260 A5B0352902	VBLK83 A05-2260 A5B0352903	VBLK84 A05-2260 A5B0358702	
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/17/2005 00:57				
Extraction HT Met?	-	NA	NA	NA	
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

74/89

NA = Not Applicable

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-1 (12-16) RI A05-2260 A5226002RI	GSB-10 (16-20) A05-2260 A5226006	GSB-3 A05-2260 A5226012
Sample Date		03/09/2005 12:40	03/09/2005 12:40	03/10/2005 17:00	
Received Date		03/12/2005 12:15	03/12/2005 12:15	03/12/2005 12:15	
Extraction Date		03/14/2005 07:00	03/14/2005 07:00	03/14/2005 07:00	
Analysis Date		03/15/2005 20:01	03/17/2005 11:37	03/15/2005 21:43	
Extraction HT Met?	NA	YES	YES	YES	NA
Analytical HT Met?		YES	YES	YES	
Sample Matrix		SOIL LOW	SOIL LOW	SOIL LOW	
Dilution Factor		10.0	5.0	10.0	
Sample wt/vol		30.12 GRAMS	30.12 GRAMS	30.05 GRAMS	
% Dry		81.73	81.73	82.57	

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-1 (12-16) RI A05-2260 A5226002RI	GSB-10 (16-20) A05-2260 A5226006	GSB-3 A05-2260 A5226012
Sample Date	03/11/2005 09:55				03/11/2005 10:15
Received Date	03/12/2005 12:15				03/12/2005 12:15
Extraction Date	03/14/2005 07:00				03/14/2005 07:00
Analysis Date	03/16/2005 00:40				03/16/2005 01:06
Extraction HT Met?	YES	NA	NA	NA	YES
Analytical HT Met?	YES				YES
Sample Matrix	WATER				WATER
Dilution Factor	1.0				1.0
Sample wt/vol	0.95 LITERS				0.86 LITERS
% Dry					

NA = Not Applicable

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-3 (16-20) A05-2260 A5226005	GSB-5 A05-2260 A5226010	GSB-6 A05-2260 A5226009	GSB-6 (4-8) A05-2260 A5226001	GSB-6 (4-8) DL A05-2260 A5226001DL
Sample Date	03/09/2005 14:00			03/10/2005 08:20	03/10/2005 08:20
Received Date	03/12/2005 12:15			03/12/2005 12:15	03/12/2005 12:15
Extraction Date	03/14/2005 07:00			03/14/2005 07:00	03/14/2005 07:00
Analysis Date	03/15/2005 21:18			03/15/2005 18:45	03/17/2005 13:43
Extraction HT Met?	YES	NA	NA	YES	YES
Analytical HT Met?	YES			YES	YES
Sample Matrix	SOIL LOW			SOIL LOW	SOIL LOW
Dilution Factor	1.0			1.0	5.0
Sample wt/vol	30.83 GRAMS			30.22 GRAMS	30.22 GRAMS
% Dry	78.05			75.86	75.86

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-3 (16-20) A05-2260 A5226005	GSB-5 A05-2260 A5226010	GSB-6 A05-2260 A5226009	GSB-6 (4-8) A05-2260 A5226001	GSB-6 (4-8) DL A05-2260 A5226001DL
Sample Date		03/11/2005 09:35	03/11/2005 09:15		
Received Date		03/12/2005 12:15	03/12/2005 12:15		
Extraction Date		03/14/2005 07:00	03/14/2005 07:00		
Analysis Date		03/16/2005 00:15	03/15/2005 23:50		
Extraction HT Met?	NA	YES	YES	NA	NA
Analytical HT Met?		YES	YES		
Sample Matrix		WATER	WATER		
Dilution Factor		1.0	1.0		
Sample wt/vol		1.045 LITERS	0.94 LITERS		
% Dry					

7/6/89

NA = Not Applicable

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	GSB-7 (12-16) RI A05-2260 A5226004RI	GSB-9 (4-8) A05-2260 A5226003	GSB-9 (4-8) RI A05-2260 A5226003RI
Sample Date		03/10/2005 15:00	03/10/2005 15:00	03/09/2005 16:10	03/09/2005 16:10
Received Date		03/12/2005 12:15	03/12/2005 12:15	03/12/2005 12:15	03/12/2005 12:15
Extraction Date		03/14/2005 07:00	03/14/2005 07:00	03/14/2005 07:00	03/14/2005 07:00
Analysis Date		03/15/2005 20:52	03/17/2005 12:27	03/15/2005 20:27	03/17/2005 12:02
Extraction HT Met?	NA	YES	YES	YES	YES
Analytical HT Met?		YES	YES	YES	YES
Sample Matrix		SOIL LOW	SOIL LOW	SOIL LOW	SOIL LOW
Dilution Factor		10.0	1.0	10.0	1.0
Sample wt/vol		30.3 GRAMS	30.3 GRAMS	30.2 GRAMS	30.2 GRAMS
% Dry		78.41	78.41	77.23	77.23

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	GSB-7 (12-16) RI A05-2260 A5226004RI	GSB-9 (4-8) A05-2260 A5226003	GSB-9 (4-8) RI A05-2260 A5226003RI
Sample Date	03/11/2005 08:50				
Received Date	03/12/2005 12:15				
Extraction Date	03/14/2005 07:00				
Analysis Date	03/15/2005 23:24				
Extraction HT Met?	YES	NA	NA	NA	NA
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

77/89

NA = Not Applicable

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-6 (4-8) A05-2260 A5226001MS	GSB-6 (4-8) A05-2260 A5226001SD	Matrix Spike Blank A05-2260 A5B0334301	Matrix Spike Blank A05-2260 A5B0334501	Matrix Spike Blk Dup A05-2260 A5B0334502
Sample Date	03/10/2005 08:20	03/10/2005 08:20			
Received Date	03/12/2005 12:15	03/12/2005 12:15			
Extraction Date	03/14/2005 07:00	03/14/2005 07:00	03/14/2005 07:00		
Analysis Date	03/15/2005 19:10	03/15/2005 19:36	03/15/2005 17:54		
Extraction HT Met?	YES	YES	-	NA	NA
Analytical HT Met?	YES	YES	-		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	30.46 GRAMS	30.59 GRAMS	30.51 GRAMS		
% Dry	75.86	75.86	100.00		

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-6 (4-8) A05-2260 A5226001MS	GSB-6 (4-8) A05-2260 A5226001SD	Matrix Spike Blank A05-2260 A5B0334301	Matrix Spike Blank A05-2260 A5B0334501	Matrix Spike Blk Dup A05-2260 A5B0334502
Sample Date					
Received Date					
Extraction Date				03/14/2005 07:00	03/14/2005 07:00
Analysis Date				03/15/2005 22:08	03/15/2005 22:34
Extraction HT Met?	NA	NA	NA	-	-
Analytical HT Met?				-	-
Sample Matrix				WATER	WATER
Dilution Factor				1.0	1.0
Sample wt/vol				1.0 LITERS	1.0 LITERS
% Dry					

78/89

NA = Not Applicable

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	SBLK A05-2260 A5B0334302	SBLK A05-2260 A5B0334503			
Sample Date					
Received Date					
Extraction Date	03/14/2005 07:00				
Analysis Date	03/15/2005 18:19				
Extraction HT Met?	-	NA			
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.68 GRAMS				
% Dry	100.00				

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	SBLK A05-2260 A5B0334302	SBLK A05-2260 A5B0334503			
Sample Date					
Received Date					
Extraction Date		03/14/2005 07:00			
Analysis Date		03/15/2005 22:59			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		WATER			
Dilution Factor		1.0			
Sample wt/vol		1.0 LITERS			
% Dry					

79/89

NA = Not Applicable

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-10 (16-20) A05-2260 A5226006	GSB-3 (16-20) A05-2260 A5226005	GSB-5 A05-2260 A5226010
Sample Date		03/09/2005 12:40	03/10/2005 17:00	03/09/2005 14:00	
Received Date		03/12/2005 12:15	03/12/2005 12:15	03/12/2005 12:15	
Extraction Date		03/15/2005 07:00	03/15/2005 07:00	03/15/2005 07:00	
Analysis Date		03/16/2005 11:00	03/16/2005 12:19	03/16/2005 12:00	
Extraction HT Met?	NA	YES	YES	YES	NA
Analytical HT Met?		YES	YES	YES	
Sample Matrix		SOIL LOW	SOIL LOW	SOIL LOW	
Dilution Factor		1.0	1.0	1.0	
Sample wt/vol		30.87 GRAMS	30.06 GRAMS	30.28 GRAMS	
% Dry		81.73	82.57	78.05	

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-10 (16-20) A05-2260 A5226006	GSB-3 (16-20) A05-2260 A5226005	GSB-5 A05-2260 A5226010
Sample Date	03/11/2005 09:55				03/11/2005 09:35
Received Date	03/12/2005 12:15				03/12/2005 12:15
Extraction Date	03/15/2005 07:00				03/15/2005 07:00
Analysis Date	03/16/2005 10:40				03/16/2005 10:23
Extraction HT Met?	YES	NA	NA	NA	YES
Analytical HT Met?	YES				YES
Sample Matrix	WATER				WATER
Dilution Factor	1.0				1.0
Sample wt/vol	1.05 LITERS				1.02 LITERS
% Dry					

80/89

NA = Not Applicable

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GSB-6 (4-8) A05-2260 A5226001	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	GSB-9 (4-8) A05-2260 A5226003	
Sample Date	03/10/2005 08:20		03/10/2005 15:00	03/09/2005 16:10	
Received Date	03/12/2005 12:15		03/12/2005 12:15	03/12/2005 12:15	
Extraction Date	03/15/2005 07:00		03/15/2005 07:00	03/15/2005 07:00	
Analysis Date	03/16/2005 10:41		03/16/2005 11:40	03/16/2005 11:20	
Extraction HT Met?	YES	NA	YES	YES	
Analytical HT Met?	YES		YES	YES	
Sample Matrix	SOIL LOW		SOIL LOW	SOIL LOW	
Dilution Factor	1.0		1.0	20.0	
Sample wt/vol	30.16 GRAMS		30.23 GRAMS	30.24 GRAMS	
% Dry	75.86		78.41	77.23	

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GSB-6 (4-8) A05-2260 A5226001	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	GSB-9 (4-8) A05-2260 A5226003	
Sample Date		03/11/2005 08:50			
Received Date		03/12/2005 12:15			
Extraction Date		03/15/2005 07:00			
Analysis Date		03/16/2005 10:05			
Extraction HT Met?	NA	YES	NA	NA	
Analytical HT Met?		YES			
Sample Matrix		WATER			
Dilution Factor		1.0			
Sample wt/vol		1.0 LITERS			
% Dry					

NA = Not Applicable

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2260 A5B0337301	Matrix Spike Blank A05-2260 A5B0337801			
Sample Date					
Received Date					
Extraction Date	03/15/2005 07:00				
Analysis Date	03/16/2005 10:01				
Extraction HT Met?	-	NA			
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.85 GRAMS				
% Dry	100.00				

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2260 A5B0337301	Matrix Spike Blank A05-2260 A5B0337801			
Sample Date					
Received Date					
Extraction Date		03/15/2005 07:00			
Analysis Date		03/16/2005 09:29			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		WATER			
Dilution Factor		1.0			
Sample wt/vol		1.0 LITERS			
% Dry					

82/89

NA = Not Applicable

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A05-2260 A5B0337302	Method Blank A05-2260 A5B0337802			
Sample Date					
Received Date					
Extraction Date	03/15/2005 07:00				
Analysis Date	03/16/2005 10:21				
Extraction HT Met?	-	NA			
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.79 GRAMS				
% Dry	100.00				

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A05-2260 A5B0337302	Method Blank A05-2260 A5B0337802			
Sample Date					
Received Date					
Extraction Date		03/15/2005 07:00			
Analysis Date		03/16/2005 09:47			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		WATER			
Dilution Factor		1.0			
Sample wt/vol		1.0 LITERS			
% Dry					

83/89

NA = Not Applicable

Date: 03/24/2005 16:20:25
Jobno: A05-2260

DELTA ENVIRONMENTAL CONSULTANTS, INC.
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5226011	GSB-1	MG/L	Arsenic - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Barium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Mercury - Total	7470	10.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 12:15	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
A5226002	GSB-1 (12-16)	MG/KG	Arsenic - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/16 16:33	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
A5226006	GSB-10 (16-20)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/16 16:37	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
A5226005	GSB-3 (16-20)	MG/KG	Arsenic - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/16 16:36	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
A5226010	GSB-5	MG/L	Arsenic - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Barium - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 12:13	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
A5226001	GSB-6 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Mercury - Total	7471	10.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/16 16:28	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL

STL Buffalo

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

DELTA ENVIRONMENTAL CONSULTANTS, INC.
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5226008	GSB-7	MG/L	Arsenic - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Barium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 12:08	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
A5226004	GSB-7 (12-16)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/16 16:35	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
A5226003	GSB-9 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/16 16:34	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Date: 03/24/2005 16:20:25
Jobno: A05-2260

DELTA ENVIRONMENTAL CONSULTANTS, INC.
QC CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5226001MS	GSB-6 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Mercury - Total	7471	10.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/16 16:30	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
A5226001SD	GSB-6 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Mercury - Total	7471	10.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/16 16:31	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
A5226008MS	GSB-7	MG/L	Arsenic - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Barium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Mercury - Total	7470	5.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 12:10	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
A5226008SD	GSB-7	MG/L	Arsenic - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Barium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Mercury - Total	7470	5.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 12:11	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
A5B033460Z	Method Blank	MG/KG	Arsenic - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
A5B033470Z	Method Blank	MG/L	Arsenic - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Barium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Lead - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Silver - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
A5B033920Z	Method Blank	MG/L	Mercury - Total	7470	1.00	-	- 12:15	NA	NA	03/15 12:25	Yes	WATER
A5B034780Z	Method Blank	MG/KG	Mercury - Total	7471	1.00	-	- 12:15	NA	NA	03/16 17:00	Yes	SOIL

STL Buffalo

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0339201	LCS	MG/L	Mercury - Total	7470	1.00	-	- 12:15	NA	NA	03/15 12:24	Yes	WATER
A5B0347801	LCS	MG/KG	Mercury - Total	7471	1.00	-	- 12:15	NA	NA	03/16 16:59	Yes	SOIL
A5B0334601	LCS CLP Soils	MG/KG	Arsenic - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
A5B0334701	LFB	MG/L	Arsenic - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Barium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Lead - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Silver - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

89/89

Client: DELTA ENVIRONMENTAL	Project Manager: MARK SCHUMACHER	Date: 3-11-05	Chain of Custody Number: 190302
Address: 104 JAMESVILLE RD	Telephone Number (Area Code)/Fax Number: 315-445-0224	Lab Number:	Page 1 of 1
City: SYRACUSE / State: NY / Zip Code: 13214	Site Contact: SAM	Lab Contact:	
Project Name and Location (State): BINGHAMTON PLAZA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8260	PAH's	RCRA metals	8082 (PCB's)	Special Instructions/ Conditions of Receipt
GSB-6 (4'-8')	3-10-05	820				X	2						X	X	X	X	PID 20+ ppm
GSB-1 (12-16)	3-9-05	1240				X	2						X	X	X	X	PID 40+ ppm
GSB-9 (4-8)	3-9-05	1610				X	2						X	X	X	X	
GSB-7 (12-16)	3-10-05	1500				X	2						X	X	X	X	
GSB-3 (16-20)	3-9-05	1400				X	2						X	X	X	X	PID 250+ ppm
GSB-10 (16-20)	3-10-05	1700				X	2						X	X	X	X	
GSB-9	3-11-05	825		X						X			X				
GSB-7	3-11-05	850		X			2		1	2			X	X	X	X	OILY ODOR STRONG
GSB-6	3-11-05	915		X			1			2			X	X			OILY ODOR STRONG
GSB-5	3-11-05	935		X			2		1	2			X	X	X	X	WEAK OILY ODOR
GSB-1	3-11-05	955		X			2		1	2			X	X	X	X	WEAK OILY ODOR
GSB-3	3-11-05	1015		X													

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 DAYS

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	3-11-05	1030	1. Received By	3-11-05	1030
2. Relinquished By	3-11-05	1:00	2. Received By RE, STL	3-11-05	12:00 hrs
3. Relinquished By RE, STL	3-11-05	1800	3. Received By	3/12/05	1215

Comments: Seals # 143574, 143575 — 20@2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

ATTACHMENT 4

BCP APPLICATION
CONTACT LIST INFORMATION: ITEM 1
GOVERNMENT CONTACTS

CITY OF BINGHAMTON

City of Binghamton
City Hall
Binghamton, New York 13901
Contact: Mr. Richard A. Bucci (current mayor)
Phone: 607-772-7001
Email: mayor@cityofbinghamton.com

Roger Brooks, Chair
Zoning Board, City of Binghamton
Department of Planning, Housing and Community Development,
City Hall, 4th Floor,
Binghamton, NY 13901

BROOME COUNTY

Barbara Fiala
Broome County Executive
Broome County Office Building
44 Hawley Street, 6th Floor
Binghamton, NY 13902-1766
Phone: 607-778-2109
Email: bfiala@co.broome.ny.us

Broome County Planning and Economic Development
Broome County Office Building
44 Hawley Street, 5th Floor
PO Box 1766
Binghamton, NY 13902-1766
Phone: 607.778.2114
Fax: 607.778.6051

Rita Petkash, Commissioner
rpetkash@co.broome.ny.usn

John F. Serino, Jr.
Economic Development Director
jserino@co.broome.ny.us

BCP APPLICATION
CONTACT LIST INFORMATION: ITEM 2

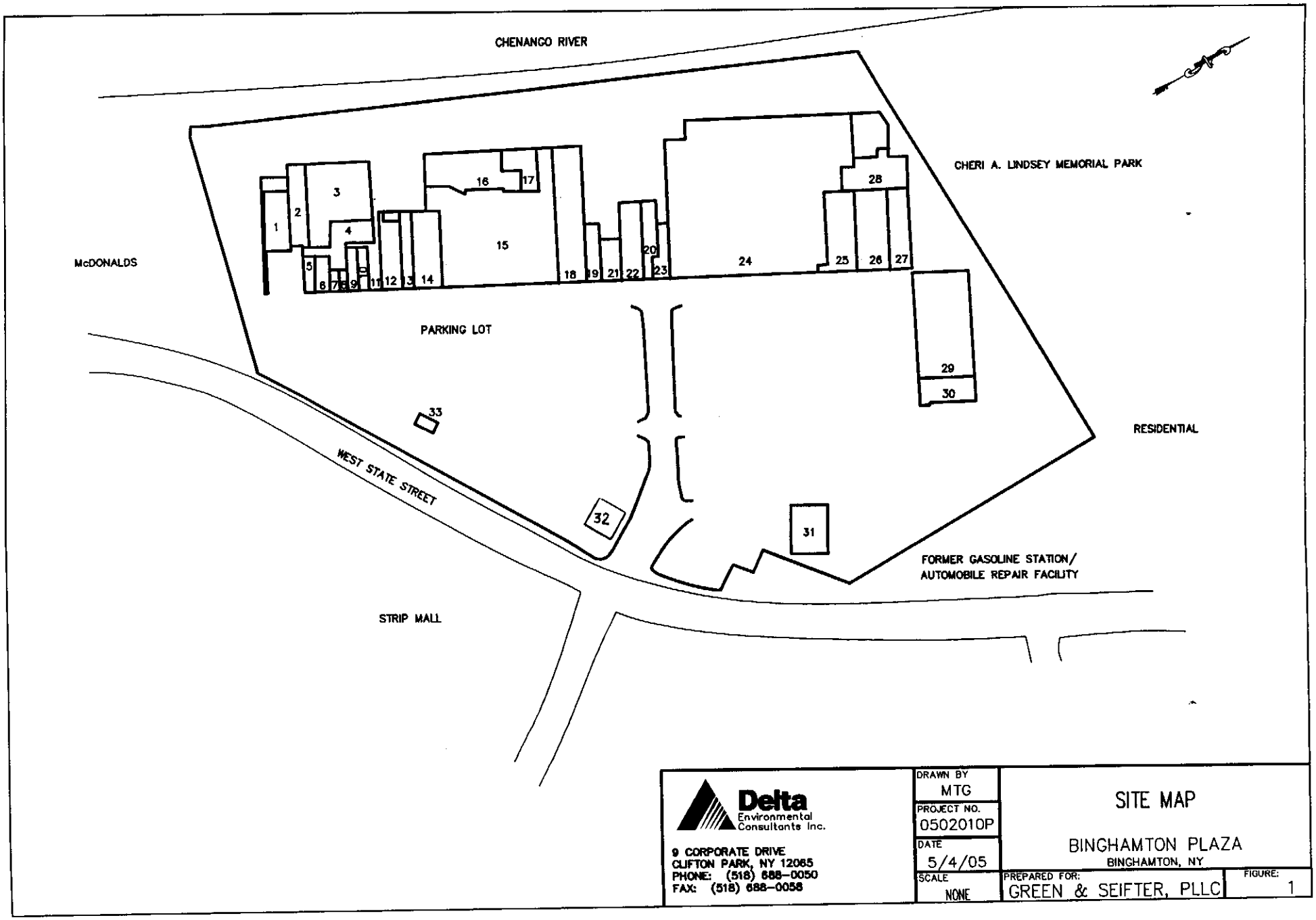
SHOPPING CENTER AREA
BINGHAMTON PLAZA
(Revised Date: 17 May 2005)

Retail Tenant Space No.	Leased Area (Sq.Ft.)
(1) Vacant	6,033
(1A) *Bryant Heating*	Approx. 2,000
(2) Vacant [Rear of store: Electrical Room]	4,525
(3) Vacant [Rear of store: Garage]	10,790
(4) Billiards	8,770
(5) N.Y. Chefs	2,300
(6) N.Y. Chefs	1,134
(7) Shoe Repair	469
(8) Vacant	560
(9) Nail Salon	1,864
(10) H & R Block	1,381
(11) Vacant	1,862
(12) Vacant [Rear of store: Electrical Room]	5,089
(13) Radio Shack	3,115
(14) Vacant	10,169
(15) Vacant	37,473
(16) Vacant	5,541
(17) Vacant	3,380
(17A) Vacant	3,672
(18) Vacant	12,383
(19) Vacant	2,673

SHOPPING CENTER AREA
BINGHAMTON PLAZA
(Revised Date: 17 May 2005)

Retail Tenant Space No.	Leased Area (Sq.Ft.)
(20) Vacant	2,692
(21) Vacant	2,974
(22) Rent-A-Center [Rear of store: Electrical Room]	5,120
(23) Pet Supplies (Livingston)	2,943
(24) K-Mart [Rear of store: Electrical Room]	90,290
(25) Fashion Bug	8,939
(26) Dollar Bazaar	9,390
(27) Vacant	4,500
(28) K-Mart (Storage) [Rear of store: Electrical Room]	4,239
(29) Furniture Shack [Rear of store: Electrical Room] *moving out June 1	19,767
(30) Vacant	3,631
(31) Future Faces Day Care	4,815
(32) Vacant	1,760
(33) M & T Bank	718
Fire Corridors	1,439
Mechanical Room #1	592
Mechanical Room #2	616
Theater Corridor	258

Note:
A. Refer to plaza site plan for tenant space location.
B. All leased areas taken from center of wall to center of wall.
C. Note that spaces 29 and 30 are in Executive Building; second floor is office space.



Delta Environmental Consultants Inc.
9 CORPORATE DRIVE
CLIFTON PARK, NY 12065
PHONE: (518) 688-0050
FAX: (518) 688-0058

DRAWN BY	MTG
PROJECT NO.	0502010P
DATE	5/4/05
SCALE	NONE

SITE MAP

BINGHAMTON PLAZA
BINGHAMTON, NY

PREPARED FOR: GREEN & SEIFTER, PLLC

FIGURE: 1

BCP APPLICATION
CONTACT LIST INFORMATION: ITEMS 3 - 7

LOCAL NEWS MEDIA

Binghamton Press & Sun Bulletin
4421 Vestal Parkway East
Vestal, NY 13850
(607) 798-1234

PUBLIC WATER SUPPLIER

Binghamton Water & Sewer Service
25 Broome Street
Binghamton, NY 13903
(607) 772-7210

PERSONS REQUESTING PLACEMENT ON THE CONTACT LIST

None

ADMINISTRATOR OF SCHOOL / DAY CARE ON OR NEAR THE SITE

Janean Pierce, Owner
Future Faces Day Care
33 West State Street
Binghamton, NY 13901
(607) 797-9880

LOCATION OF THE DOCUMENT REPOSITORY FOR THE PROJECT

Broome County Public Library
185 Court Street
Binghamton, NY 13901
(607) 778-6400

ATTACHMENT 5

ATTACHMENT 5: CONTAMINANT INFORMATION

During the week of 7 March 2005, Delta Environmental Consultants, Inc. (Delta) conducted a Limited Site Investigation at the subject Site to determine if evidence of hazardous substances and/or impacts to soils and groundwater are present at the site. Limited Site Investigation findings are summarized below. Complete results are presented in the Limited Site Investigation Report dated 30 March 2005 (BCP Application Attachment 3).

Soil Sampling / Soil Boring Results

Soil boring data indicated that materials located beneath the majority of the site consisted of four to eight feet of soil fill consisting primarily of brown sand and gravel with varying amounts of silt. This material was compact and was placed over fill material that likely was associated with past landfill activities. Also, ash was encountered at most locations; this ash was likely associated with the former incinerator that was located immediately south of the site. The fill material generally consisted of dark gray to black sand and fine gravel with ash, metal, copper wire, paper, cardboard, plastic, glass, brick fragments, wood, slag, etc. This material was soft, damp to saturated, and ranged from four to 20 feet or more in thickness. The soil beneath the fill material consisted of gray-brown to olive-brown sand and silt with varying amounts of clay and gravel. This soil was wet to saturated, and appeared to be natural undisturbed materials.

Field screening results indicated the potential presence of petroleum residuals in a number of the soil borings. Generally, the evidence of petroleum residuals were encountered in the dark-gray to black fill materials at depths of between 8 feet and 20 feet below grade. Specifically, petroleum odors and staining were observed in borings GSB-1, GSB-3, GSB-6 and GSB-7. The PID readings in the fill material in these borings ranged from 5 to 40 parts per million (ppm) with some higher reading (115-275 ppm) in boring GSB-3. The PID readings for the soil samples from the remaining borings were generally between 0 to 5 ppm.

Soil Sampling / Analytical Results

Laboratory reports show that VOCs, PAHs and metals were detected in all six soil samples. Of the VOCs detected, only the concentration of acetone in samples GSB-1 (12-16'), GSB-6 (4-8') and GSB-10 (16-20') met or exceeded the NYSDEC-recommended soil cleanup objective. Numerous PAHs and metals were detected in each sample with a number of the reported concentrations exceeding the applicable NYSDEC-recommended soil cleanup objectives. The only exception to this was sample GSB-3 (16-20'), where only one PAH (phenanthrene) was detected, and the detected concentration was below the cleanup objective. PCBs were detected in three of the soil samples: GSB-3 (16-20'), GSB-6 (4-8') and GSB (4-8'); however, all of the reported concentrations were below the applicable NYSDEC-recommended soil cleanup objective.

Groundwater Sampling / Analytical Results

Laboratory reports show that VOCs were detected in each of the groundwater samples with the reported concentrations of cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and vinyl chloride in sample GSB-5, benzene, methylene chloride and xylenes in sample GSB-6, chlorobenzene in sample GSB-7 and acetone in sample GSB-9 exceeding their respective NYS Class GA groundwater standards.

Five of the six groundwater samples were analyzed for PAHs. One or more PAHs were reported in three of these five samples (GSB-5, GSB-6 and GSB-7) with the concentrations of chrysene in samples GSB-5 and GSB-6 and benzo(a)anthracene, benzo(b)fluoranthene and naphthalene in sample GSB-6 exceeding their respective NYS Class GA guidance values.

Three of the six samples (GSB-1, GSB-5 and GSB-7) were analyzed for PCBs and RCRA metals. PCBs were detected in sample GSB-1 at a concentration of 0.32 parts per billion (ppb), which exceeded the NYS Class GA groundwater standard of 0.09 ppb. PCBs were not detected in the remaining samples. Metals were detected in each of the three samples with the concentrations of lead in all three samples exceeding the NYS Class GA groundwater standard. In addition, the reported concentrations of arsenic, barium, chromium and mercury in samples GSB-1 and GSB-7 as well as the concentration of cadmium and silver in sample GSB-1, also exceeded their respective NYS Class GA groundwater standards. **NOTE:** These unfiltered water samples contained sediment, and the detected PCBs and metals are likely due to the sediment in the samples.

ATTACHMENT 6

BCP APPLICATION
LAND USE FACTORS: ITEMS 10 - 15

FEDERAL, STATE OR LOCAL NATURAL RESOURCES

The subject Site is adjacent to the east bank of the Chenango River.

FLOOD PLAINS

According to a report issued by Environmental Data Resources, Inc., the site is located with the FEMA 500-year floodplain.

INSTITUTIONAL CONTROLS

None

REAL PROPERTY USE

The site is currently a distressed commercial property (shopping center with associated office space). Nearby properties are commercial, residential, and recreational. Please refer to Attachment 1 (Site Survey, Tax Map) and Attachment 4 (Tenant List, Adjacent Property Owner) for additional information.

VULNERABILITY OF GROUNDWATER / PROXIMITY TO WELLHEAD

According to Mr. Ron Brink of the Broome County Health Department, the Olmstead Well, operated by the City of Binghamton, is currently used as a backup drinking water supply (most of Binghamton's water supply comes from the Susquehanna River). Sampling is conducted annually: TCE and 1,1 DCA have been detected on occasion at concentrations below 1 part per billion (ppb). A model provided by Mr. Brink indicates that the capture zone of the Olmstead Well does not approach Binghamton Plaza due to the proximity of the well to the Chenango River. Mr. Brink indicated that the well is over 50 feet deep. A confirmation letter sent to Delta by Mr. Brink is provided in Attachment 2.

NYSDEC has stated that the subject Site is located within the boundary of a sole source aquifer (Clinton-Ballpark Aquifer).

GEOGRAPHY AND GEOLOGY

The site is located within the City of Binghamton in an area of mixed usage, including commercial, residential, and recreational. West State Street and a variety of commercial properties border the site to the east and south. Residential properties and the Cheri Lindsay Park (City of Binghamton) border the site to the northeast and north. The Chenango River borders the property to the west.

The site is easily accessed due to its proximity to Interstate Highway 81, US Route 11, and State Route 17. Interstate 81 Exit 4 is located approximately one-half mile from the site.

Regionally, unconsolidated material underlying the Site and vicinity is mapped as outwash sand and gravel (Surficial Geology Map of New York, 1986). Underlying bedrock is mapped as Upper Devonian Sonyea Group Shale (Geologic Map of New York, 1970).

The subsurface materials beneath the Site generally consisted of four to eight feet of soil fill, primarily of brown sand and gravel with varying amounts of silt, overlying additional fill material associated with previous City of Binghamton landfilling activities. The fill material placed by the City is approximately four to twenty feet thick and generally consisted of dark gray to black sand and fine gravel with ash, metal, copper wire, paper, cardboard, plastic, glass, brick fragments, wood, slag, etc. Ash deposits are reportedly associated with the City-operated incinerator that was located on a parcel immediately south of the site. The soil beneath the incinerator fill material consisted of native gray-brown to olive-brown sand and silt with varying amounts of clay and gravel. Reportedly, sand and gravel underlies the sand and silt unit.

Recent site investigation activities indicate that the depth to water below the site is approximately 15 to 20 feet below grade. It is unclear if this water represents perched water overlying the sand and silt unit or true "groundwater" elevation. Groundwater flow at the Site is expected to be to the west – southwest.

ATTACHMENT 7

ATTACHMENT 7: SITE INVESTIGATION WORK PLAN

Please refer to Volume II for the complete Site Investigation Work Plan including the Field Activities and Analysis Plan (FAAP), Quality Assurance Project Plan (QAPP) and site-specific Health and Safety Plan (HASP).

Delta
Environmental
Consultants, Inc.

BINGHAMTON PLAZA, INC.

VOLUME II

SITE INVESTIGATION WORK PLAN
33 WEST STATE STREET
BINGHAMTON, NEW YORK

5 AUGUST 2005

Prepared for:

Binghamton Plaza, Inc.
30 Galesi Drive, Suite 301
Wayne, New Jersey 07470

Prepared by:

Delta Environmental Consultants, Inc.
104 Jamesville Road
Syracuse, NY 13214

Delta Project No. 0504001P

Inogen Environmental Alliance

TABLE OF CONTENTS

List of Figures

List of Attachments

1.0 INTRODUCTION

This Work Plan has been prepared by Delta Environmental Consultants, Inc. (Delta) on behalf of Binghamton Plaza, Inc. (BPI) as the Volunteer under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

The components of this Work Plan include:

- The overall goals of the project and implementation of the Work Plan (presented below in this Section);
- A description of the site, site history, previous investigative work conducted at the site, a presentation of the approach and implementation of various investigation methodologies proposed to meet the objectives of the site investigation, and a schedule for conducting the proposed investigative work and subsequent reporting (*Sections 2.0 through 7.0 of this Work Plan*);
- Support Documentation (*presented as "Attachment 1" to this Work Plan*);
- A Field Activities and Analysis Plan (FAAP) describing the procedures to be followed during all sample collection and handling tasks and other investigative tasks associated with this project (*presented as "Attachment 2" to this Work Plan*);
- A Quality Assurance Project Plan (QAPP) describing the field and laboratory quality assurance and quality control measures to be implemented during the project (*presented as "Attachment 3" to this Work Plan*); and,
- A Health & Safety Plan (HASP) describing the known chemicals of concern (COC) at the site, and the procedures to be followed in conducting the field operations (*presented as "Attachment 4" to this Work Plan*).

Consistent with NYSDEC's Draft DER-10 Technical Guidance for Site Investigation and Remediation, the overall goals of the site investigation as proposed in this Work Plan are as follows:

(1) Delineate the horizontal and vertical extent of COCs identified at the site;

(2) Establish the surface and subsurface setting at the site, including topography and hydrogeology;

(3) Identify sources of COCs at the site, potential COC migration pathways, and potential receptors;

(4) Evaluate the potential for off-site impacts as a result of COCs released from the site;

(5) Determine if remediation at the site is necessary, and if so, evaluate potential remedial alternatives (RAs) including potential controlled discharge scenarios associated with the RAs, based on the results of the investigation and identified COCs, migration pathways, and potential exposure scenarios;

(6) Evaluate the potential and actual health threats that may be present in association with the COCs present at the site; and

(7) Provide sufficient data for a Fish and Wildlife Resource Impact Analysis, if necessary.

2.0 SITE LOCATION / PHYSICAL SETTING

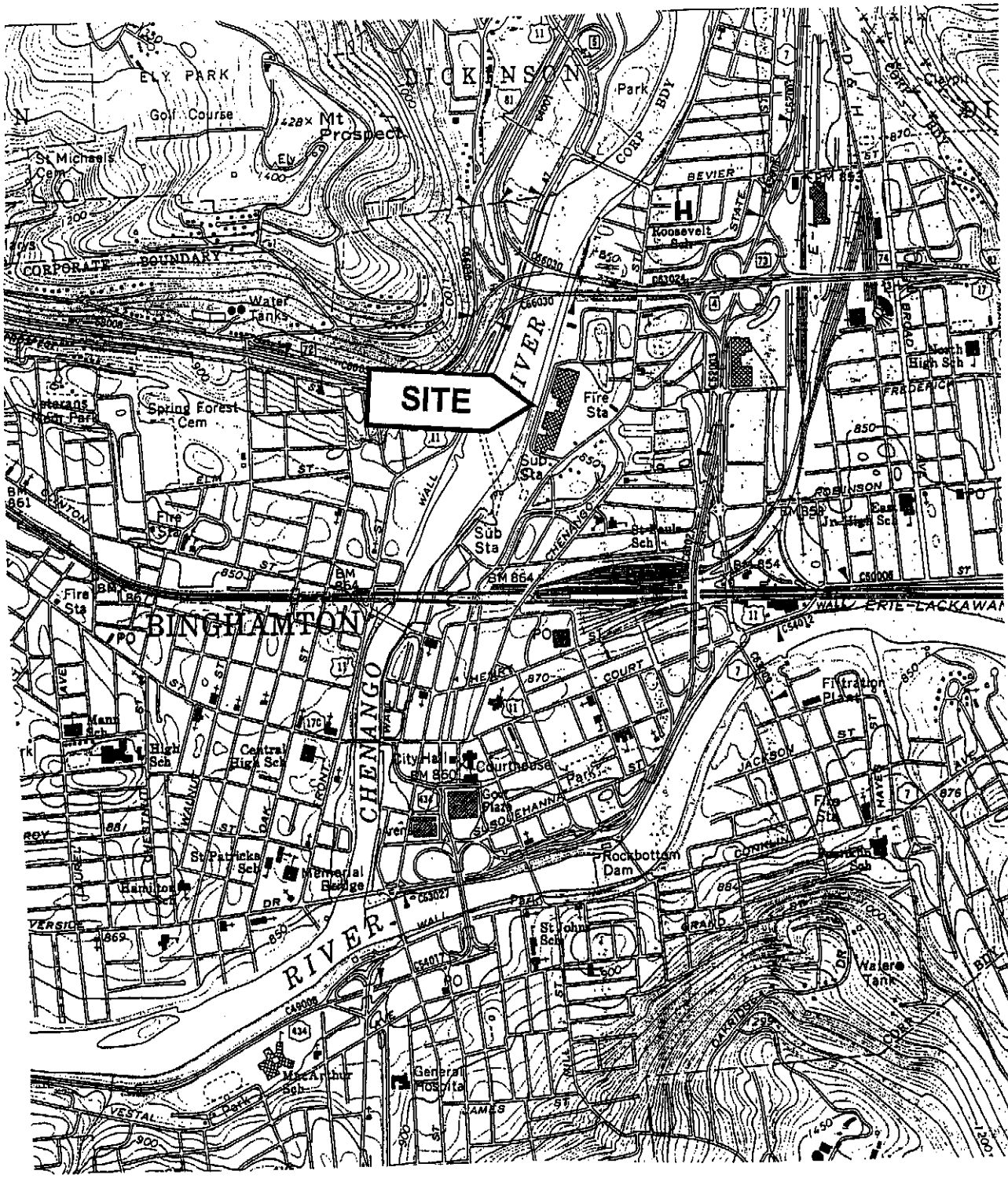
The subject site is located at 33 West State Street (NAD83, Latitude 042° 06' 39" N, Longitude 075 ° 54' 21" W), in the City of Binghamton, Broome County, New York (Figure 2-1). The site consists of approximately 24.29 acres of commercial property (Tax Map Nos. 1101048, 1101028, 1110101, 1101040, 1101041, 1110035, 1110050, and 1110102), and is owned by Binghamton Plaza, Inc. (BPI).

The site was occupied by several buildings at the time of this Work Plan (Figure 2-2), including:

- an approximately 259,175 square-foot one-story commercial strip mall building located on the western half of the property (Buildings "1" through "28");
- an approximately 46,000 square foot two-story retail/office building located off the northern end of the strip mall (Buildings "29" and "30"); and
- three satellite buildings situated in areas throughout the remainder of the eastern parking lot areas including a 4,815 square-foot commercial building (Building "31", occupied by a day care center), a 1,760 square-foot vacant commercial building (Building "32"), and a small (approximately 718 square feet) commercial building (Building "33", occupied by a bank).

All areas of the site not occupied by buildings are paved with asphalt parking areas or concrete walkways. There are no vegetated areas on site. Site topography is generally flat with gentle grades for storm water drainage, however there is a steep embankment along the entire western side of the site which leads down to the Chenango River. The change in elevation from the site down to the Chenango River varies, but ranges on the order of 15 to 20 feet.

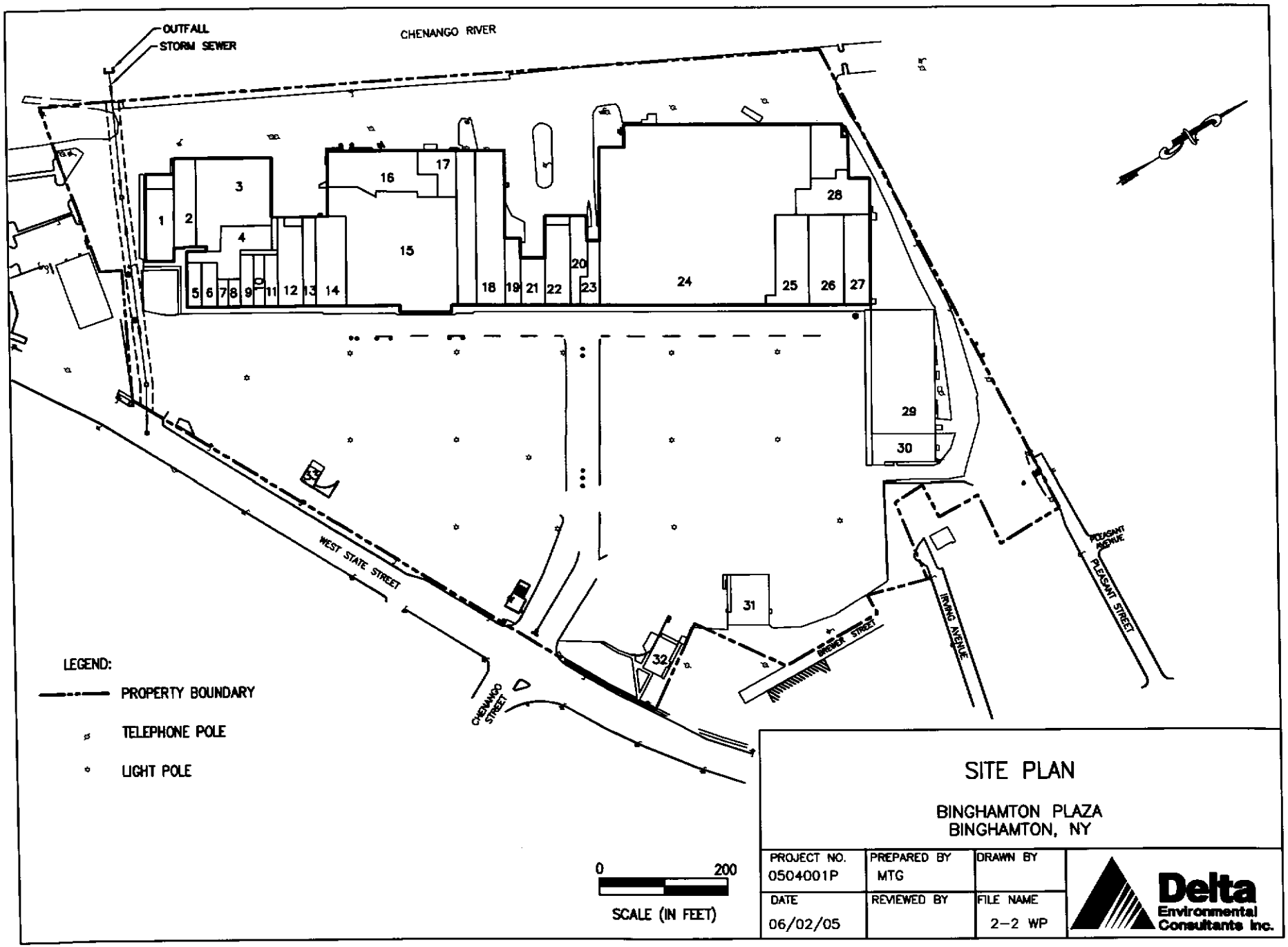
The site is located within the City of Binghamton in an area of mixed usage, including commercial, residential, and recreational. West State Street and a variety of commercial properties border the site to the east and south. Residential properties and a memorial park border the site to the northeast and north. The Chenango River borders the property to the west.



USGS 7.5 minute Quadrangle: Binghamton West

Delta Environmental Consultants, Inc.
104 Jamesville Road
Syracuse, NY 13214
PH: 315-445-0224
FX: 315-445-0793

DRAWN BY: SPA	SITE LOCATOR: **Site Location Map**
CAD FILE:	**Binghamton Plaza**
DATE: 5/2005	**33 West State Street**
SCALE: 1"=2,000'	**Binghamton, NY**
PREPARED FOR: **Binghamton Plaza, Inc.**	FIGURE: **2-1**



SITE PLAN

BINGHAMTON PLAZA
BINGHAMTON, NY

PROJECT NO.	PREPARED BY	DRAWN BY	
0504001P	MTG		Delta Environmental Consultants Inc.
DATE	REVIEWED BY	FILE NAME	
06/02/05		2-2 WP	

3.0 SITE HISTORY AND PREVIOUS INVESTIGATIONS

3.1 SITE HISTORY

According to available information generated from Delta's January-May 2005 due-diligence work, the site was undeveloped in the early 1900s and was later used as a municipal "raw garbage" landfill by the City of Binghamton from 1946 until 1957. A municipal garbage incinerator was reportedly constructed by the City of Binghamton in 1957 south of the existing plaza and "behind" (west of) the existing McDonald's restaurant location. The ash from the incinerator was reportedly deposited at the site for the next several years until the early 1960s, at which time the use of the incinerator was discontinued. Thicknesses of the waste deposited at the site have been estimated to be on the order of 20 feet; however, slightly less than 20 feet of waste (approximately 10 to 18 feet) was reported in the north end of the site, and up to 35 feet of waste in the south end of the site.

Construction of the existing shopping plaza reportedly began in 1963. A review of available aerial photographs indicated that the plaza was present in 1967, with the plaza appearing in the 1967 photographs to be nearly the same as the existing plaza in 2005. The site was developed as a commercial strip mall and plaza and has been used as such since its construction in 1963.

Typical onsite tenants have included food establishments, service stores (salons, etc), large retail stores (Kmart) and various specialty retail stores (shoe stores, Radio Shack, etc.). Other tenants at the site have included a dry cleaner (Martin Brothers Cleaners and Dyers), an auto parts store (National Auto Stores) and a paint store (Sherwin Williams). The use of solvent-based materials has been documented at the site in association with the former dry cleaner (Martin Brothers). Although no longer present at the site, Martin Brothers was documented as a RCRA small quantity generator (SQG) of hazardous waste in 1986. The paint store and the auto parts store referenced above were also documented as SQGs at the site.

Neighboring properties to the site have included several fuel dispensing sites (i.e., gas stations), a dry cleaner, a park, residential areas, various commercial properties, and food establishments. Historical investigations at neighboring properties reported the presence of "significant contamination" in the soil and groundwater at the McDonald's property to the south currently occupied by McDonald's, and also beneath the Cheri Lindsey Park to the north (refer to Section 3.2 below for additional discussion regarding previous assessments and investigations). Reportedly, the entire Cheri Lindsey Park to the north is underlain by municipal landfill waste similar to the materials underlying the site.

According to available records at local Binghamton County Department of Health offices, an off-site well field situated north of the Cheri Lindsey Park (the "Olmstead Well Site") was nominated in conjunction with the plaza site as a "Hazardous Substance Disposal Site" in the early 1990s due to the detected presence of contaminants in samples collected from the well; however, the nomination was reportedly denied by NYSDEC. No evidence collected to date has indicated that the Olmstead Well Site or the site were included on the Hazardous Substance Site List. Further, a 19 May 2005 correspondence from the Broome County Department of Environmental Health Services indicated that the "capture zone" associated with drawdown during pumping operations of the Olmstead Well does not approach the Binghamton Plaza site; therefore, any contamination associated with the Olmstead Well is not likely from the Binghamton Plaza site.

3.2 PREVIOUS ASSESSMENTS AND INVESTIGATIONS

A summary of the previous investigations conducted at both the site and a neighboring property to the south (i.e., currently occupied by McDonald's), are described below in Sections 3.2.1 and 3.2.2. The two investigations described in those sections are the only complete environmental investigation reports that were available to Delta when this Work Plan was developed. Delta is aware of at least one other environmental investigation performed at a neighboring property (the Cheri Lindsey Park to the north), however, the full report was not available to Delta at the time of this investigation. Additional miscellaneous information pertinent to the investigation of the site was obtained from other sources as summarized below.

NYSDEC Region 7 Kirkwood Offices: An Army Corps of Engineers Flood Control project investigation report noted that the site is underlain by a relatively thin (i.e., less than five feet) silt and clay layer, followed by a thick sand and gravel unit.

Broome County Department of Health (BCDOH): A 19 May 2005 correspondence from the BCDOH provided information pertaining to a nearby (off-site) supply well (Olmstead Supply Well) owned by the City of Binghamton. The following pertinent information was drawn from that report:

- The Olmstead Supply Well (OSW) was drilled in 1965;
- The OSW is approximately 51 feet deep below ground surface (bgs), has 36 feet of casing, and is screened from approximately 36 to 51 feet bgs;
- Maximum yield of the OSW is 708 gallons per minute (gpm);
- Average well production from the OSW between May of 2004 and April 2005 has ranged from 2812 gallons per day (gpd) to 5437 gpd;
- Minor concentrations (i.e., less than one part per billion (ppb)) of trichloroethylene (TCE) and 1,1-dichloroethane (1,1-DCA) have been detected in samples collected from the well between 2000 and 2005;
- A capture zone map, in addition to information provided in the correspondence, indicates that most of the induced groundwater recharge for the OSW comes from the Susequehanna River.

Broome County Department of Health (BCDOH): Miscellaneous excerpts (boring location map, boring logs, etc) from a September 2003 report from O'Brien & Gere provided information regarding the neighboring Cheri Lindsey Park (C.L. Park) situated immediately to the north of the site. The report indicated that low concentrations of polychlorinated biphenyls (PCBs) and several other analytes were detected in soil samples from the C.L. Park. Elevated photoionization detector (PID) readings were recorded in one or more of the soil borings indicative of the presence of volatile organic compounds (VOCs). Soil boring logs indicated that varying amounts of fill and ash were

encountered beneath the C.L. Park, generally underlain and intermixed with silts, sand, and gravels.

3.2.1 *Limited Site Investigation, Delta Environmental Consultants, Inc., March 2005*

Delta performed a Limited Site Investigation at the Binghamton Plaza in March 2005, the results of which were presented in a report entitled *Limited Site Investigation Report, Binghamton Plaza, 30 March 2005.* A copy of the report is provided in Attachment 1 for reference. The following briefly summarizes the results of the investigation.

- The subsurface materials beneath the site generally consisted of four to eight feet of soil fill consisting primarily of brown sand and gravel with varying amounts of silt overlying solid waste landfill deposits including ash from the City of Binghamton incinerator formerly located south of the site. The landfill waste materials and ash deposits ranged from four to 20 or more feet in thickness and generally consisted of dark gray to black sand and fine gravel with ash, metal, copper wire, paper, cardboard, plastic, glass, brick fragments, wood, slag, etc. The soil beneath the landfill waste consisted of native gray-brown to olive-brown sand and silt with varying amounts of clay and gravel.

- Visual observations, odors and field screening results indicated the presence of petroleum-impacted soils in four of the borings installed by Delta. These borings (GSB-1, GSB-3, GSB-6 and GSB-7) were located in the southwestern corner, east-central portion and northern portion of the property. The majority of petroleum impacts in soils were encountered in the dark-gray to black fill material between 8 feet and 20 feet below grade. The PID readings in the fill material in these borings ranged from 5 to 40 parts per million (ppm) with some higher readings (115-275 ppm) in boring GSB-3 in the east-central portion of the site.

- An accurate groundwater flow direction map for the site could not be prepared due to the inconsistent depth to groundwater encountered during the Limited Site Investigation. Based on topography and proximity to the Chenango River, Delta

reported that groundwater was expected to flow to the west and/or southwest toward the river.

- Delta submitted six soil samples for laboratory analysis as part of their Limited Site Investigation. Analytical results for these samples showed that VOCs, PAHs and metals were detected in all six soil samples. One VOC (acetone) was detected in three of the soil samples at or above the NYSDEC soil cleanup objective. Numerous PAHs and metals were detected in one or more of the samples with a number of the reported concentrations exceeding the applicable NYSDEC soil cleanup objectives. PCBs were detected in three of the soil samples; however, all of the reported concentrations were below the applicable NYSDEC soil cleanup objective.

- Delta also submitted six groundwater samples, one from each of six temporary monitoring wells installed during their Limited Site Investigation, for laboratory analysis. Analytical results for these samples showed that VOCs were detected in each of the groundwater samples with the reported concentrations of some of these compounds exceeding their respective NYS Class GA groundwater standards in four of the six samples.

- Five of the six samples were analyzed for PAHs. Analytical results for these samples showed that one or more PAHs were reported in three of these five samples. The reported concentrations of some of these compounds exceeded their respective NYS Class GA guidance values in two of the five samples analyzed for PAHs. Three of the six samples were analyzed for PCBs and RCRA metals. PCBs were detected in one of the samples at a concentration exceeding the NYS Class GA groundwater standard. PCBs were not detected in the remaining samples. Metals were detected in all three groundwater samples with the concentrations of one or more of the metals in each sample exceeding their respective NYS Class GA groundwater standards (**Note:** Groundwater samples were sediment-laden; therefore, Delta believes that the detections of metals and PCBs in groundwater were the result of turbid samples).

3.2.2 *Offsite Investigation: McDonald's Property (former Burger King), Limited Phase II Site Investigation*

Whitestone Associates, Inc. (Whitestone) performed a Limited Phase II Site Investigation at the McDonald's restaurant (former Burger King) immediately south of the site in September 2002, the results of which were presented in a letter report entitled *Limited Phase II Site Investigation, Former Burger King Restaurant Site, 19 September 2002.* A copy of the report is provided in Attachment 1 for reference. The following briefly summarizes the results of the investigation.

- Whitestone installed nine soil borings to depths ranging from 12 to 20 feet below ground surface. Subsurface materials reportedly consisted of brown to gray sand, silt and clay fill soil overlying fill material associated with the former landfill and incinerator on the western portion of this property. The fill reportedly consisted of gravel, brick fragments, paper, ash, wood and glass and was 12 to 16 plus feet in thickness. Whitestone reported that native soil was not encountered during their investigation.

- Visual observations and odors indicated the presence of petroleum-impacted soils in four of the borings installed by Whitestone. These borings (B1, B3, B7 and B9) were located within the footprint of the existing McDonald's restaurant (B1 and B3) as well as in the eastern portion of this property near a former gas station and former junkyard previously located on this property. The majority of petroleum impacts in soils were encountered in the fill material between six and eight feet below grade. Elevated PID readings (i.e., greater than 10 ppm) were not reported by Whitestone.

- Whitestone submitted four soil samples for laboratory analysis as part of their Limited Phase II Site Investigation. Analytical results for these samples showed that VOCs, base neutral extractables (BNs) and metals were detected in all four soil samples. The concentrations of several BNs and/or metals were reported to have exceeded their respective NYSDEC TAGM Recommended Soil Cleanup Objectives in each of the samples. In addition, one or more VOCs, primarily BTEX compounds,

were also reported in concentrations exceeding their respective NYSDEC TAGM Recommended Soil Cleanup Objectives in two of the four samples.

- Whitestone also submitted two groundwater samples collected during their Limited Phase II Site Investigation for VOC and BN analysis. Analytical results for these samples showed that numerous VOCs and BNs were detected in both samples. The concentrations for several of the VOCs and BNs reportedly exceeded their respective NYS groundwater standards.

4.0 SITE INVESTIGATION SCOPE OF WORK

This section describes the tasks that will be completed in areas of concern (AOC), and across the site as a whole during the Site Investigation. Detailed specifications, field procedures and methodologies associated with the various tasks are presented in the attached FAAP and QAPP (See Attachments 2 and 3, respectively).

4.1 SOIL INVESTIGATION

Site investigation activities conducted by Delta in March 2005 indicated that soils were impacted by SVOCs, various metals, PCBs, and to a lesser extent VOCs, throughout the majority of the site. Some of the VOC and SVOC compounds detected in soils were petroleum based and, in consideration of the sampling locations (i.e., along the property boundaries), may be associated with historical off-site sources immediately adjacent to the site (e.g., former filling stations). The remainder of the SVOCs, metals, and PCBs detected in soils appear to be more broadly related to the historical landfilling operations and ash disposal that took place at the site in association with the City of Binghamton's site operations in the 1940s through the early 1960s.

Not reflected in the March 2005 soil sample analytical results due to the nature and scope of the March 2005 sampling program, are the potential presence of chlorinated solvent VOCs (CVOCs) in the vicinity of the former dry cleaner (i.e., no soil samples were analyzed in the area of the site occupied by the former dry cleaner). However, March 2005 groundwater analyses indicated the presence of CVOCs in a groundwater sample collected from GSB-5 which was located in the immediate vicinity of the former dry cleaner location on-site and hydraulically downgradient (estimated) from the former dry cleaner location.

Therefore, to better characterize the nature and extent of the wastes disposed at the site in association with the landfilling operations, and to specifically address potential concerns associated with soil quality in the vicinity of the former dry cleaner location, a site wide soil boring program is proposed. The boring locations, including the borings to be

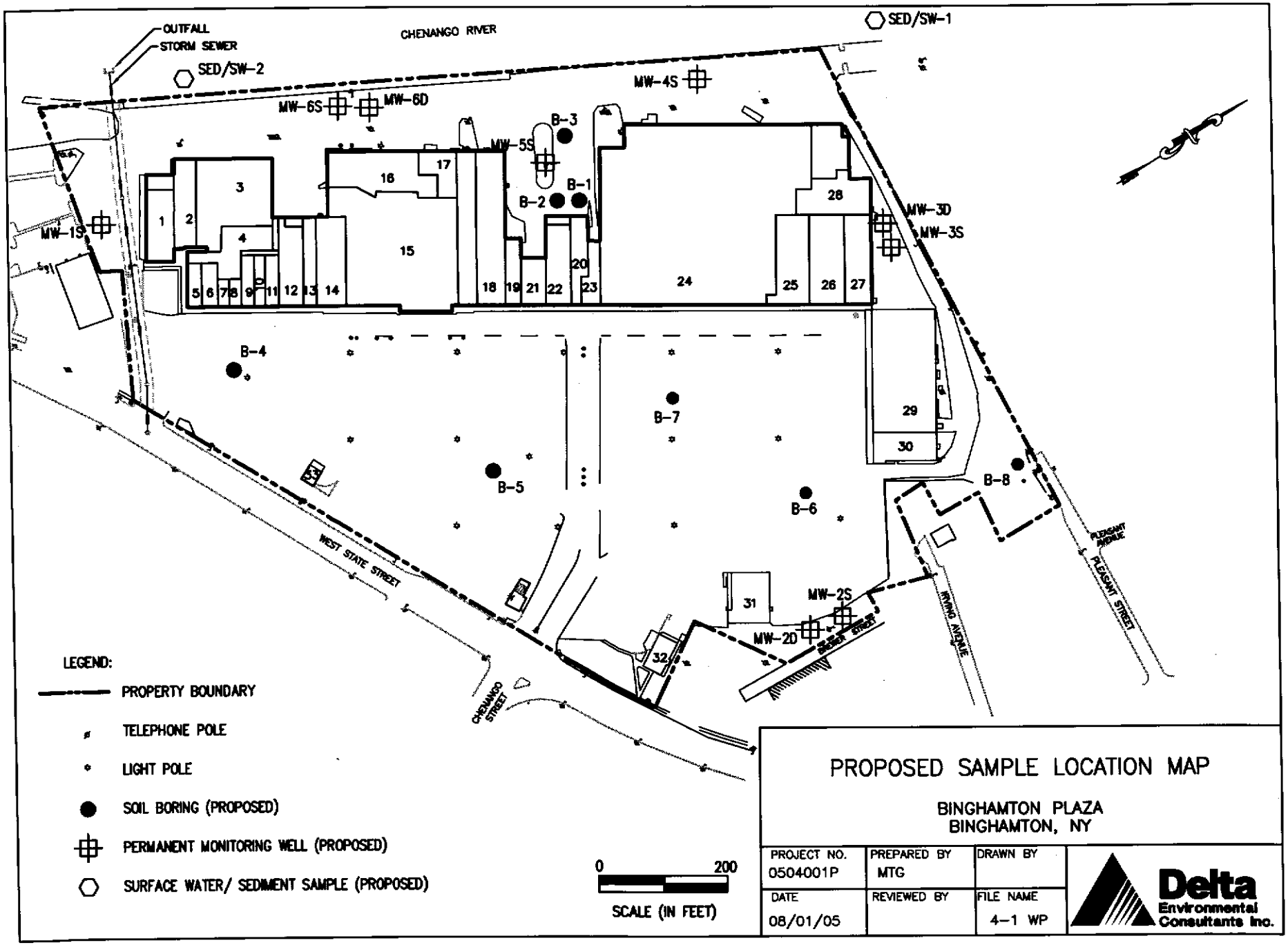
converted into groundwater monitoring wells as discussed in Section 4.2, are proposed in large part based on spatial site coverage; however, a higher density of soil boring locations are proposed in the immediate vicinity of the former dry cleaner location. To summarize, the overall goals of the soil boring program are:

(1) Establish the geologic setting beneath the site, extending into the natural overburden soils beneath the historic landfill waste deposits;
(2) Establish the general nature and quality of the landfill waste deposits beneath the site, and their potential to provide continuing exposure pathways through contribution of COCs to groundwater and/or direct exposure scenarios, and;
(3) Assess the potential for specific source areas not necessarily attributable to the historic landfill operations at the site (e.g., potential releases at the former dry cleaner location).

The following section provides additional details on the number of soil borings proposed, their locations, and the techniques used to complete the soil borings.

4.1.1 Soil Boring Installations

A total of 17 soil borings will be advanced across the site as part of this Site Investigation. These borings will be installed to evaluate the nature and extent of historical landfilling operations at the site and the presence of a source area of CVOCs associated with the former onsite dry cleaner as well as to evaluate any potential offsite sources of COCs migrating onto the site. Eight of these soil borings (B-1 to B-8) will be advanced across the site for subsurface soil sample collection purposes using a combination of "direct-push" soil sampling techniques and hollow stem auger drilling techniques (Figure 4-1). Soil cores will be collected continuously from grade to the maximum depth of each boring. The remaining nine soil borings will also be advanced for soil sample collection purposes and will be converted into groundwater monitoring wells (Figure 4-1). These nine borings along with the associated drilling techniques and sampling procedures are further described in Section 4.2.



PROPOSED SAMPLE LOCATION MAP

BINGHAMTON PLAZA
BINGHAMTON, NY

PROJECT NO.	PREPARED BY	DRAWN BY
0504001P	MTG	
DATE	REVIEWED BY	FILE NAME
08/01/05		4-1 WP

Delta Environmental Consultants Inc.

Based on the March 2005 site investigation work completed by Delta, it is estimated that the maximum depth of the soil borings necessary to accomplish the objectives of the site investigation will range from approximately 20 to 25 feet. The primary criteria for terminating each soil boring will be the depth at which a prescribed natural undisturbed layer, hereinafter referred to as the "silt" layer, is encountered immediately beneath the landfill wastes. The silt layer was identified in Delta's 30 March 2005 Limited Site Investigation Report generally as an undisturbed natural gray-brown to olive brown sand and silt with varying amounts of clay and gravel.

This layer was further documented in a 1948 Army Corp of Engineers Flood Control Project report, and is estimated to be on the order of five feet thick, underlying the majority of the site, and situated immediately below the historical landfill waste deposits. Underlying the silt layer is estimated to be relatively thick sequences of sand and gravel. For clear identification, the silt layer is represented by the following sampling intervals recovered during Delta's March 2005 limited site investigation (refer to Attachment 1 for a copy of Delta's 30 March 2005 Limited Site Investigation Report): GSB-2 (18'-20'); GSB-3 (20'-24'); GSB-6 (17'-20'); GSB-9 (16'-20'), and; GSB-10 (19'-24').

Observations recorded during Delta's March 2005 site investigation work indicated that the silt layer varies in consistency across the site (i.e., the sand, silt and clay contents may vary significantly); however, where the silt layer contains higher portions of silt and clay and lesser amounts of sand and gravel, the silt layer may be hydraulically vertically restrictive, and as such may inhibit contaminant migration where contaminants of concern (COCs) are present. Additionally, Delta's March 2005 observations indicated the general absence of obvious signs of COCs (i.e., no staining, odors, etc) upon penetrating the natural undisturbed silt layer.

Therefore, the objective of each soil boring will be to fully penetrate the historical waste deposits, and continue into the natural silt layer until evidence of any COCs is diminished such that samples may be collected both within the fill materials, and also below the fill materials, providing both waste characterization analyses and also providing sample

analyses of the unaffected natural soils underlying the wastes for vertical delineation of the COCs.

As previously stated, the silt layer has the potential to be vertically restrictive. Therefore, care will be taken during the implementation of the soil boring program to avoid penetrating the silt layer whenever possible where is it estimated that the lithology of the natural soils may be restrictive (i.e., where the layer is comprised in majority of silt and clay).

A summary of soil boring locations is presented below and a summary of the soil borings to be converted into groundwater monitoring wells is provided in Section 4.2.1. (**Note**: locations of soil borings and/or groundwater monitoring wells may be adjusted in the field due to access considerations).

- B-1 through B-3: These soil borings will be located within the immediate vicinity of the former dry cleaner location to determine if there is a source of residual CVOC impacts to soils in this area of concern. The objective of these borings is to assess for the potential presence of a residual CVOC source area primarily in the vadose zone in the immediate vicinity of the former dry cleaner.

- B-4 through B-8: These soil borings will be located throughout the site to evaluate the nature and extent of the historical landfill wastes at the site, and provide horizontal and vertical delineation of COCs that may be associated with the landfill wastes. The locations of B-4 through B-8, in conjunction with the proposed groundwater monitoring wells (Section 4.2), are based on spatial coverage of the site, and not necessarily in association with any specific area of concern. Should field observations reveal subsurface conditions in any one particular area which justify an increased level of attention, one or more of these boring locations may adjusted accordingly.

4.1.2 Soil Sampling

Soil sample collection for laboratory analysis will be based on visual observations, odors, and PID screening data during the drilling activities. The following provides a description of the soil samples to be collected during the Site Investigation.

- Borings B-1 through B-3: One "worst-case" soil sample will be collected from each boring based on field observations to evaluate the potential presence of a CVOC source area associated with the former onsite dry cleaner;
- Borings B-4 through B-8: Maximum of three "worst-case" soil samples to evaluate the nature and extent of historic onsite landfilling operations; and
- Soil borings to be converted to Groundwater Monitoring Wells (MW-1S, MW-2D, MW-3D, MW-4S and MW-6D (Section 4.2): Maximum of three "worst-case" soil samples to further evaluate the nature and extent of historic onsite landfilling operations. Note that soil samples for laboratory analysis will not be collected from monitoring well MW-5S due to the close proximity of soil borings B-1 through B-3.

In addition to the nine soil samples discussed above, up to three deep soil samples will be collected from the natural soils underlying the historical waste deposits to provide vertical delineation of the COCs from the waste materials, making a total of approximately 12 soil samples proposed for analysis.

The three soil samples from borings B-1 through B-3 will be analyzed for VOCs only (USEPA Method 8260). The remaining nine soil samples (i.e., collected from borings B-4 through B-8, the soil borings to be converted into groundwater monitoring wells and the deep soil samples) will be analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), PCBs (USEPA Method 8082), and metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), by a NYSDOH ELAP-certified laboratory that participates in the Contract Laboratory Program (CLP). Laboratory analytical procedures will adhere to NYS Analytical Services Protocol (ASP) 2000 methodologies and protocols.

Analytical results will be reported using NYSDEC ASP 2000 Category B deliverables. Site-specific quality assurance and quality control (QA/QC) samples, including a matrix spike (MS), matrix spike duplicate (MSD), field blank and sample duplicate will also be collected per the requirements specified in the QAPP (Attachment 3). QA/QC samples will be collected at the rate of one per sample delivery group (SDG). Under no circumstances will a SDG exceed 20 samples including the QA/QC samples. The analytical data will be checked for completeness and accuracy and will be validated by a NYSDEC-approved data validation chemist and a Data Usability Summary Report (DUSR) will be prepared.

4.2 HYDROGEOLOGIC INVESTIGATION

Site investigation activities conducted by Delta in March 2005 indicated that groundwater was impacted by VOCs, SVOCs, PCBs, and metals. However, PCB and metal results are questionable due to the turbid nature of the samples, which were collected from temporary well points. The groundwater impacts are suspected to be attributable to historic landfill materials beneath the site, potential releases from the former dry cleaner location on-site, and on-site migration of COCs from off-site sources. Therefore, a site-wide hydrogeologic investigation is proposed in order to characterize the groundwater system and to determine the nature and extent of affected groundwater at the site. The goals of the groundwater investigation will be as follows:

(1) Establish the hydrogeologic setting beneath the site within the unconsolidated fill materials and the underlying natural soils, including horizontal and vertical gradients, identify any vertically restrictive units that may exist, and determining hydraulic conductivities of the various geologic units to the extent practicable;
(2) Establish "shallow" overburden groundwater quality beneath the site (i.e., first groundwater encountered, estimated to be within, or at the bottom of, the historic landfill materials at the site);
(3) Establish "deep" groundwater quality at the site (i.e., groundwater bearing zones within the natural undisturbed gravel unit situated beneath the silt layer and the historic landfill wastes);

(4) Assess for potential upgradient and/or adjacent sources (i.e., former filling stations) impacting the groundwater quality beneath the site through establishment of upgradient and/or adjacent groundwater quality at the property boundaries; and

(5) Establish the horizontal and vertical extent of COCs identified in groundwater at the site to the extent practicable given the estimated off-site extent of historic landfilling beyond the site boundaries.

4.2.1 Monitoring Well Installations

A total of nine groundwater monitoring wells, six shallow (MW-1S through MW-6S) and three deep (MW-2D, 3D and 6D), will be installed at the site to depths of approximately 25 and 50 feet below grade, respectively. Drilling methods used to install the monitoring wells will consist of 4.25-inch inside diameter (ID) hollow-stem auger (HSA) drilling techniques in the case of the shallow monitoring wells, and a combination of 6-1/4-inch ID HSA drilling techniques and 3-7/8-inch ID fluid rotary techniques for the deep monitoring wells. Estimated monitoring well locations are shown on Figure 4-1.

During drilling activities, auger cuttings will be logged by a geologist and field screened with a PID to monitor for the potential presence of VOC vapors. Continuous split-spoon soil samples will be collected during all monitoring well installation activities, with the exception of well pair locations (i.e., where both a shallow and deep monitoring well are proposed at the same location), in which case split spoon samples will not be collected at the shallow monitoring well location. Soil sampling for laboratory analysis for these borings was described in Section 4.1.2.

Each monitoring well will be constructed of two-inch-diameter PVC riser and ten feet of 0.01-inch slotted PVC well screen. In the case of the shallow monitoring wells, the well screen will be installed to straddle the estimated shallow water table, if present, above the "silt" layer. At the deep monitoring well locations, four-inch diameter steel casing will initially be installed to a depth of approximately 30 to 35 feet below grade, with the objective of sealing off any vertically restrictive layers (i.e., the silt layer), and allowing for the installation of a screen to monitor what is estimated to be a deeper sand and gravel

unit immediately underlying the silt layer (i.e., screened interval estimated to be approximately 40 to 50 feet below ground surface).

A summary of monitoring well locations is presented below. All locations and references are estimated based on an assumed westerly groundwater flow direction (**Note**: locations of monitoring wells may be adjusted in the field due to access considerations).

- MW-1S: This sidegradient monitoring well will be located along the southern property boundary to evaluate any potential offsite sources of contamination associated with the neighboring McDonald's property, or former filling station that reportedly existed where a neighboring commercial office building now exists.

- MW-2S/2D: These upgradient monitoring wells will be located along the eastern property boundary to evaluate if there are any potential offsite sources of contamination along West State Street (i.e., an identified former gas station, dry cleaner, and automobile repair facility), and to help establish upgradient water quality at the site.

- MW-3S/3D: These sidegradient monitoring wells will be located along the northern property boundary to evaluate any potential offsite sources of contamination associated with the neighboring Cheri Lindsey Memorial Park.

- MW-4S: This downgradient monitoring well will be located along the northwestern property boundary and will assist in evaluating any effects the historical site activities have exhibited on groundwater quality, and assist in evaluating groundwater quality migrating off-site.

- MW-5S: This monitoring well will be situated immediately downgradient of the former dry cleaner site location and is intended to identify effects on groundwater quality as a result of historical operations at the former dry cleaner location.

- MW-6S/6D: These downgradient monitoring wells will be located along the western property boundary and will assist in evaluating any effects the historical site activities have exhibited on groundwater quality, and assist in evaluating groundwater quality migrating off-site.

4.2.2 Well Development

Well development will begin no sooner than 24 hours after final completion of each monitoring well. Low-flow techniques will be used to develop each of the newly installed monitoring wells. Each well will be developed until the turbidity of the water is below 50 NTU, and/or field parameters (i.e., pH, conductivity and temperature) stabilize. Development water from the wells will be checked periodically for the presence of a sheen or free product. Development water will be discharged directly to the ground surface, unless there is visible evidence of impact. In the event that a sheen or free product is present, development water will be containerized pending proper management.

4.2.3 Groundwater Sampling

Groundwater sampling will be conducted no sooner than one week after final development of each monitoring well. Field parameters (i.e., pH, temperature, conductivity and turbidity) and groundwater elevation data will be collected from each monitoring well prior to purging (elevation data) and during sampling (field parameters). Groundwater elevation data will be calculated and a groundwater flow map constructed for the sampling event.

A maximum of nine groundwater samples will be analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), PCBs (USEPA Method 8082), and NYSDEC Part 360 "Routine Parameters" (as specified in 6 NYCRR Part 360, Subpart 360-2.11) by a NYSDOH ELAP-certified laboratory that participates in the CLP. Laboratory analytical procedures will adhere to NYS ASP 2000 methodologies and protocols.

Analytical results will be reported using NYSDEC ASP 2000 Category B deliverables. Site-specific quality assurance and quality control (QA/QC) samples, including a matrix spike (MS), matrix spike duplicate (MSD), field blank, trip blank (for VOCs only) and sample duplicate will also be collected. Following receipt, the analytical data will be checked for completeness and accuracy and will be validated by a NYSDEC-approved data validation chemist and a DUSR will be prepared.

4.2.4 Hydraulic Conductivity Testing

Hydraulic conductivity testing (i.e., "slug testing") will be performed on a total of four monitoring wells, two shallow and two deep, the locations of which will be determined after monitoring well installation is complete and the subsurface hydrogeology has been evaluated. Results of the testing will assist in establishing seepage velocities and contaminant transport rates as applicable.

4.3 SURFACE WATER/SEDIMENT SAMPLING

To evaluate water and sediment quality in Chenango River at locations proximal to the site, Delta will collect two surface water samples and two sediment samples from the eastern river bank at approximate locations shown on Figure 4-1. One location will be established approximately 100 feet upstream from the site (SED/SW-1) and one location will be in the vicinity of the downstream end of the property, but upstream of the municipal storm water outfall location (SED/SW-2). All sample locations will be situated within the existing water line of the river, approximately one to three feet from shore.

Surface water and sediment samples will be analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), metals (8 RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), and PCBs (USEPA Method 8082) by a NYSDOH ELAP-certified laboratory that participates in the CLP. Laboratory analytical procedures will adhere to NYS ASP 2000 methodologies and protocols where applicable.

Analytical results will be reported using NYSDEC ASP 2000 Category B deliverables. Site-specific quality assurance and quality control (QA/QC) samples, including a matrix spike (MS), matrix spike duplicate (MSD), field blank (for sediment samples only), trip blank (for VOCs associated with surface water samples only) and sample duplicate will also be collected. Following receipt, the analytical data will be checked for completeness and accuracy and will be validated by a NYSDEC-approved data validation chemist and a DUSR will be prepared.

4.4 VAPOR INTRUSION MONITORING

The potential for vapor intrusion into on-site structures and indoor air quality as a potential exposure pathway for VOCs will be evaluated as part of the investigative activities during the Site Investigation phase of the project in accordance with NYSDEC and New York State Department of Health (NYSDOH) requirements as applicable.

4.4.1 Approach

The potential for VOCs to migrate from the subsurface into existing or future structures at the site will be evaluated by measuring three parameters concurrently at the site:

(1) Target VOC concentrations in sub-slab air (i.e., in the crawl spaces beneath the buildings, and immediately beneath the pavement in parking lot areas);
(2) Target VOC concentrations in indoor air, and;
(3) Target VOC concentrations in outdoor ambient air.

As described below, a number of sample locations will be selected to ensure a representative cross section of the sampling parameters listed above, and also a representative cross section of site-wide conditions. One round of samples will be collected during the course of this investigation. Prior to conducting the air sampling, an inventory of the products (i.e., cleaning products, solvents, etc.) used in each location will be prepared. Note that it is anticipated that air sampling requirements will be delayed until after the completion of the intrusive soil and groundwater investigation phases of the Site Investigation, and potentially any Interim Remedial Measures (IRM) that may be

implemented as a result of the findings of the site investigation, such that final site conditions can be evaluated rather than pre-remedial site conditions. All samples will be collected in accordance with NYSDOH guidelines as described in Section 2.6 of the FAAP (Attachment 2).

Sub-Slab and Indoor Air Sampling Locations

The following is a list of the selected sampling locations at which samples will be collected concurrently of both the air in the crawl space and also the indoor air within the occupied space (i.e., "living" space). Note that the sampling locations listed are based on building number (refer to Figure 4-1 for building locations and numbers):

- 3 (currently vacant);
- 15 (currently vacant);
- 20 (currently vacant, former dry cleaner location);
- 24 (K-Mart);
- 29 (Furniture Shack, vacant as of June 1, 2005);
- 31 (day care center, Future Faces);
- 32 (vacant); and
- 33 (M&T Bank).

Reportedly, all of the on-site buildings were constructed on piers with vented crawl spaces (exposed soil in crawl spaces) to accommodate historical issues with methane emission from the subsurface as a result of historical landfill deposits beneath the site. As such, vented crawl spaces provide an appropriate sampling point beneath each building, representative of current "sub-slab" conditions. However, to further represent "sub-slab" conditions in the event that future structures may be constructed at the site immediately on the ground surface without the provisions of a crawl space, four additional samples are proposed for collection immediately beneath the pavement in the front and rear parking lot areas where competent pavement exists (i.e., two in the front parking area and two in the rear parking area). The locations of the front parking area samples will be field selected based on parking lot conditions, with the intention of

selecting locations in which the parking lot provides an effective seal over the underlying subsurface. The locations of the rear parking lot samples will be selected in a similar manner, however both rear parking lot samples will be biased towards the former dry cleaner location (Building 20), with at least one of the samples collected from the immediate vicinity of the former monitoring well location GSB-5 (refer to Attachment 1, Limited Site Investigation Report, Delta, March 2005).

Final locations of crawl space and indoor air sampling locations within the designated buildings will be selected based on considerations presented in Section 2.6.3 of NYSDOH's Draft Guidance for Evaluating Soil Vapor Intrusion in the State of New York (VI Guidance Document).

Ambient Outdoor Sampling Locations

Concurrent with the collection of air samples in the crawl spaces, sub-pavement, and indoor air, ambient outdoor air samples will be collected from three locations. Assuming a westerly prevailing wind direction, one "upwind" sample will be collected along the westerly property boundary at a location that approximately bisects the length of western property boundary. Two "downwind" samples will be collected concurrently with the upwind sample, one from the immediate vicinity of building 30 and one from the immediate vicinity of building 33.

All air samples collected during the course of the Site Investigation will be analyzed by Severn Trent Laboratories of Burlington, VT, a NYSDOH-certified laboratory method TO-15, with minimum reporting limits in accordance with NYSDOH standards (typically 1 ug/m^3) and sufficiently low to provide a comparison of the analytical results to established NYSDOH Background levels and NYSDOH Guideline values as listed in Section 3.2.4 of the VI Guidance Document. All analyses will include methane and methane-related analytes as appropriate.

4.5 SURVEYING

Upon completion of all field tasks, the horizontal and vertical locations of all soil borings, monitoring wells, surface water/sediment sampling locations, and exterior sub-pavement vapor sampling locations will be surveyed by a New York State (NYS) licensed land surveyor. Vertical elevations will be recorded to the nearest 0.01-foot. Top-of-casing elevations for each monitoring well will also be recorded to the nearest 0.01-foot. All sampling points will be referenced to an onsite fixed datum point.

4.6 DATA EVALUATION

4.6.1 Soil, Groundwater, Sediment, and Surface Water Sampling Data

Upon receipt, the analytical data packages will be reviewed for completeness and accuracy. All data will then be validated, and a DUSR will be prepared. Following validation the data will be compared to applicable standards, criteria, and guidance values as follows:

- Soil Data: *NYSDEC TAGM 4046* recommended soil cleanup objectives.
- Groundwater Data: *NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS)* ambient water quality standards and guidance values for groundwater. These values are derived from 6 NYCRR Parts 700-705, Water Quality Regulations. Groundwater elevation and flow data will also be reviewed and evaluated.
- Surface Water Data: 6 NYCRR Part 703, Class AA-S Surface Water Standards
- Sediment Data: NYSDEC's Division of Fish, Wildlife and Marine Resources Technical Guidance for Screening Contaminated Sediments (updated January 25, 1999).

4.6.2 Vapor Intrusion Monitoring Data

The results of the vapor intrusion monitoring as described above under Section 4.4 will be compared to established NYSDOH Background levels and NYSDOH Guideline values as listed in Section 3.2.4 of the NYSDOH's Draft Guidance for Evaluating Soil Vapor Intrusion in the State of New York, as applicable.

4.7 FISH AND WILDLIFE IMPACT ANALYSIS

Step 1 of NYSDEC's Fish and Wildlife Impact Analysis (FWIA) will be performed (NYSDEC, 1994). The objectives of the FWIA – Step 1 are to identify fish and wildlife resources that currently exist and also that may have existed before COC introduction, and to provide information necessary for the design of subsequent Site Investigation activities, if justified. Possible pathways of contaminant migration affecting fish and wildlife resources are identified through tasks performed for Step-1, as follows:

- Creation of site topographic, cover-type and drainage maps clearly identifying the specific features (i.e., site location and perimeter, fish and wildlife resources, wetlands, aquatic habitats, NYSDEC significant habitats, etc.) described in the guidance;
- Description of the fish and wildlife resources, including the expected fauna and vegetative cover-types as well as any areas of observed stress in the study area;
- Description of the fish and wildlife resources value including the value of the habitat to associated fauna and the value of these resources to humans; and
- Identification of applicable fish and wildlife regulatory criteria.

Based on the results of Step 1 of the FWIA and other investigative activities conducted as part of the Site Investigation, the need for additional FWIA steps will be evaluated in accordance with the criteria set forth in the guidance. If an ecological risk assessment (ERA) is deemed necessary, it will be performed in accordance with the ERA guidance developed by the NYSDEC and the USEPA for Onondaga Lake Subsites (NYSDEC, 1998). This guidance includes a combination of NYSDEC's FWIA guidance and USEPA's Ecological Risk Assessment Guidance for Superfund (USEPA, 1997).

5.0 HEALTH AND SAFETY

All project work will be performed in accordance with the site-specific Health and Safety Plan (HASP), provided as Attachment 4.

6.0 REPORTING

A Site Investigation Report, which includes appropriate support documentation (tables, maps, laboratory data reports, data validation reports, etc.), field data, and analytical data summaries will be prepared at the completion of field activities. The report will present findings, conclusions, and recommendations for additional work and/or remediation, if necessary. The Site Investigation Report will be prepared in general accordance with BCP Section 3.10 of the Draft Brownfield Cleanup Program Guide.

Monthly reports will be prepared and submitted to NYSDEC by the 10th day of each month, commencing with the month subsequent to the approval of the Investigation Work Plan and ending with the termination date. The monthly reports will include, at a minimum, the following information.

- Activities conducted during the reporting period;
- Anticipated activities for the next reporting period;
- Activity modifications;
- Sampling results;
- Project percentage completion;
- Corrective actions; and
- Citizen participation activities.

7.0 CITIZEN PARTICIPATION PLAN

A Citizen Participation Plan (CPP) will be prepared for use and implementation during the Site Investigation. The CPP will be submitted to NYSDEC, approved and implemented prior to the commencement of fieldwork at the site. The participation plan will include required elements as detailed in the NYSDEC Division of Environmental Remediation (DER) Guidebook titled, *Citizen Participation in New York's Hazardous Waste Site Remediation Program,* dated June 1998. NYSDEC will take the lead on performing public meetings. Preparation of required fact sheets and notices, creation of an appropriate mailing/contact list, completing mailings, maintenance of the document repository and updating the CPP will be the responsibility of the municipality. The CPP will include the following elements:

- Introduction – to include public involvement goals and objectives, schedule, and access information;
- Historical Information;
- Site Description and History (including fact sheet for distribution);
- Community Profile;
- Community Relations Program – to include community relations tools, access to records and information, and advertising information; and,
- References and contact information for elected officials and regulatory agencies.

8.0 SCHEDULE

Summarized below is a tentative schedule for completion of project milestones.

Task	Completion Date
Submission of Site Investigation (SI) Work Plan to NYSDEC:	5 August 2005
NYSDEC Provides SI Work Plan Comments to BPI:	16 September 2005
BPI Provides Response to NYSDEC Comments:	30 September 2005
Submission of Final SI Work Plan to NYSDEC:	30 September 2005
NYSDEC Work Plan Approval / Work Authorized / Authorize Work	14 October 2005
Begin Fieldwork*:	31 October 2005
Finish Fieldwork:	2 December 2005
Submit SI Report to NYSDEC:	20 January 2006
NYSDEC Provides SI Report Comments to BPI:	10 March 2006
BPI Provides Response to NYSDEC Comments:	24 March 2006
Final SI Report Provided to NYSDEC:	7 April 2006

Actual schedule will be dependent on NYSDEC approval of the Site Investigation Work Plan and the schedule may be accelerated or delayed to avoid problems associated with performing the field investigation in winter weather conditions.

*Note: The vapor intrusion monitoring and reporting schedule will be determined at a later date pending the results of the soil and groundwater investigation activities, and after the completion of any subsequent Interim Remedial Measures as necessary.

ATTACHMENT 1

SUPPORT DOCUMENTATION

Privileged & Confidential

September 19, 2002

786 Mountain Boulevard
Suite 200
Watchung, NJ 07069
908.668.7777
908.754.5936 fax

Gwynedd Corporate Center
1120 Welsh Road
Suite 100
North Wales, PA 19454
215.393.8200
215.393.8574 fax

22630 Davis Drive
Suite 200
Sterling, VA 20164
703.464.5858
703.464.8583 fax

www.whitestoneassoc.com

McDONALD'S CORPORATION
Mellon Gateway Center
3025 Chemical Road, Suite 100
Plymouth Meeting, Pennsylvania 19462

Attention: Mr. Ed Cox

Regarding: LIMITED PHASE II SITE INVESTIGATION
FORMER BURGER KING RESTAURANT SITE
3 WEST STATE STREET
BINGHAMTON, BROOME COUNTY, NEW YORK
WHITESTONE PROJECT NO.: WP02-5444

Dear Mr. Cox:

Whitestone Associates, Inc. (Whitestone) conducted field activities associated with a Limited Phase II Site Investigation (SI) to evaluate subsurface conditions at the above-referenced site on September 5, 2002. A summary of Whitestone's findings, conclusions, and recommendations associated with this effort is presented below.

1.0 SCOPE OF WORK AND LIMITATIONS

The current investigation included limited soil and groundwater sampling and laboratory analyses to address certain recognized environmental conditions identified in Whitestone's May 17, 2002 *Summary Report of Findings - Phase I Environmental Site Assessment and Survey for Asbestos Containing Materials* for the subject property. The primary goal of this limited Phase II SI was to preliminarily evaluate subsurface conditions through the collection and analysis of soil and groundwater samples to determine if on-site conditions have been adversely impacted by historical placement of fill material and/or historical site operations which included a municipal incinerator and associated junkyard. Specifically, the limited Phase II SI included:

- installing nine borings with Geoprobe drilling equipment to facilitate soil screening and select sample collection;
- logging and screening soil samples with a photoionization detector (PID) for total volatile organic (VO) concentrations; and
- submitting select soil and groundwater samples for laboratory analyses.

This limited Phase II SI was not intended to be an exhaustive evaluation of subsurface conditions at the subject property and is submitted for the sole use of McDonald's

Corporation. This document should not be relied upon by any third party without Whitestone's written consent.

2.0 SAMPLING METHODOLOGY

Nine soil borings (B-1 through B-9) were installed throughout the subject property utilizing truck mounted Geoprobe equipment subcontracted from Enviroprobe Services Inc. (Enviroprobe). Soils within the borings were screened with a PID to identify potential concentrations of volatile organic compounds. The soil interval displaying the highest PID reading or visible/olfactory evidence of contamination was targeted for laboratory analyses. Sampling equipment was decontaminated between successive uses.

Four soil samples (5444-B1, 5444-B4, 5444-B7, and 5444-B9) were collected from corresponding borings and submitted to QC Laboratories (QC) of Southampton, Pennsylvania (NYSDEC Certificate #11223) for volatile organics (VO), base neutral organics (BN), and priority pollutant metals (PP Metals) analyses. Two groundwater samples (5444-B1-GW and 5444-B7-GW) also were submitted to QC for VO and BN analyses. Analytical results comprise Attachment B and are summarized in Table 1 (Soil and Groundwater Sampling Summary), Table 2 (Soil Sampling and Analysis Data Summary), and Table 3 (Groundwater Sampling and Analysis Data Summary). A site location map is provided as Figure 1 and boring locations are shown on Figure 2.

3.0 SAMPLING AND ANALYSIS DATA SUMMARY

Soil borings B-1 through B-9 were completed at the subject site to depths ranging from 12.0 feet below ground surface (fbgs) to 20.0 fbgs. Borings generally were distributed throughout the subject property to provide broad coverage of subsurface conditions at the site, however, **borings B-1 through B-3 were placed within the proposed McDonald's restaurant building area and borings B-4 through B-9 were placed in the vicinity of the former municipal incinerator. Groundwater was encountered at depths ranging from approximately 10.0 feet below ground surface (fbgs) and 17.0 fbgs** in borings advanced during the limited Phase II SI.

Materials encountered in the borings included various fill consisting of brown to gray silt and sand and gray clay. These soils also contained varying amounts of gravel, brick fragments, paper, ash, wood, and glass. **Natural soils were not encountered during the limited Phase II SI.**

Contaminant concentrations exhibited within the soil samples were compared to the NYSDEC 1994 *Technical and Administrative Guidance Memorandum* (*TAGM*) Recommended Soil Cleanup Objectives. PP Metals concentrations also were compared Eastern USA Background Levels. Groundwater concentrations were compared to NYSDEC *TAGM* Groundwater Standards.

3.1 Proposed Building Area

Soil borings B-1 through B-3 were installed within the proposed McDonald's restaurant building footprint. Although elevated PID readings were not detected above background

levels in soils collected from borings B-1 through B-3 slight petroleum odors were detected in the approximately 7.0 fbgs to 8.0 fbgs soil interval in borings B-1 and B-3. Visual/olfactory evidence of contamination was not detected in soil collected from boring B-2. Soil sample 5444-B1 was collected from its corresponded boring and submitted for PP Metal, VO, and BN analyses.

Laboratory analysis of soil sample 5444-B1 yielded benzene at a concentration of 112 parts per billion (ppb), zinc at a concentration of 209 parts per million (ppm), and mercury at a concentration of 0.33 ppm. These contaminant concentrations exceed applicable NYSDEC *TAGM* Recommended Soil Cleanup Objectives of 60 ppb for benzene, 20 ppm for zinc, and 0.1 ppm for mercury. Zinc and mercury concentrations also exceed the Eastern USA Background Levels for these respective metals. Furthermore arsenic, beryllium, chromium, and copper were detected at concentrations exceeding NYSDEC *TAGM* Recommended Soil Cleanup Objectives, however, these metal concentrations are within the Eastern USA Background Level ranges for these respective metals. As shown in Table 2, additional PP Metals, VO compounds, and BN compounds were detected at concentrations exceeding laboratory Method Detection Limits (MDLs), however, these additional contaminant concentrations do not exceed applicable NYSDEC *TAGM* Recommended Soil Cleanup Objectives and/or Eastern USA Background Levels.

Groundwater sample 5444-B1-GW was collected from boring B-1, and submitted for VO and BN analyses. As outlined in Table 3, benzene, ethyl benzene, naphthalene, acenaphthylene, phenanthrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene were detected in laboratory analysis of groundwater sample 5444-B1-GW at concentrations exceeding NYSDEC *TAGM* Groundwater Standards. As outlined in Table 3, additional VO and BN compounds were detected in laboratory analysis of 5444-B1-GW at concentrations exceeding laboratory MDLs, however, these additional constituent concentrations are below applicable NYSDEC *TAGM* Groundwater Standards.

3.2 Former Municipal Incinerator Area

Soil borings B-4 through B-6 were installed throughout the former municipal incinerator area situated in the western portion of the subject site. Elevated PID readings above background levels and visual/olfactory evidence of contamination was not detected in these borings. However, due to the significant quantities of uncontrolled fill within these borings (and throughout the subject site) soil sample 5444-B4 was collected from its corresponding boring and submitted for laboratory analyses.

Laboratory analyses of soil sample 5444-B4 detected zinc at a concentration of 165 ppm, mercury at a concentration of 0.299 ppm, benzo(a)anthracene at an estimated concentration of 791 ppb, chrysene at an estimated concentration of 781 ppb, and benzo(a)pyrene at an estimated concentration of 718 ppb. These contaminant concentrations exceed applicable NYSDEC *TAGM* Recommended Soil Cleanup Objectives of 20 ppm for zinc, 0.1 ppm for mercury, 224 ppb for benzo(a)anthracene, 400 ppb for chrysene, and 61 ppb for benzo(a)pyrene. Zinc and mercury concentrations detected in laboratory analysis of 5444-B4 also exceed Eastern USA Background Levels. Arsenic, beryllium, chromium, copper, and nickel also were detected in soil sample 5444-B4 at concentrations exceeding NYSDEC *TAGM* Recommended Soil Cleanup Objectives, however, these metal concentrations are within the range established by Eastern USA Background Levels. Several additional VO,

BN, and PP Metal constituents also were detected above laboratory MDLs in soil sample 5444-B4, however, these concentrations did not exceed NYSDEC *TAGM* Recommended Soil Cleanup Objectives and/or Eastern USA Background Levels.

3.3 Historic Site Usage

Soil borings B-7 through B-9 were installed throughout the parking area of the former Burger King restaurant, however, borings B-7 and B-8 were biased toward the areas of the former on-site junkyard operations which was located in the northern portion of the site. Boring B-9 was installed along the northeastern border of the property to determine if subsurface conditions at the subject property have been impacted by a former gasoline station situated to the immediate northeast of the site. A maximum PID reading of approximately 7.4 ppm and a gasoline odor were detected in soil boring B-7. Elevated PID readings above background levels were not detected in soil borings B-8 or B-9, however, a gasoline odor was detected in soils collected from boring B-9. Soil samples 5444-B7 and 5444-B9 were collected from their corresponding borings and submitted to QC for PP Metals, VO, and BN analyses.

Laboratory analysis of soil sample 5444-B7 detected zinc at a concentration of 104 ppm, benzene at an estimated concentration of 103 ppb, toluene at a concentration of 73,300 ppb, total xylenes at a concentration of 27,280 ppb, benzo(a)anthracene at an estimated concentration of 873 ppb, chrysene at an estimated concentration of 1,070 ppb, and benzo(a)pyrene at an estimated concentration of 775 ppb. These contaminant concentrations exceed applicable NYSDEC *TAGM* Recommended Soil Cleanup Objectives of 20 ppm for zinc, 60 ppb for benzene, 1,500 ppb for toluene, 1,200 ppb for total xylenes, 224 for benzo(a)anthracene, 400 ppb for chrysene, and 61 ppb for benzo(a)pyrene. As outlined in Table 2, additional PP Metals, VO, and BN compounds also were detected in laboratory analysis of soil sample 5444-B4 at concentrations which did not exceed applicable NYSDEC *TAGM* Recommended Soil Cleanup Objectives and/or Eastern USA Background Levels.

Laboratory analysis of soil sample 5444-B9 detected arsenic at a concentration of 15.9 ppm, cadmium at a concentration of 3.32 ppm, zinc at a concentration of 32,700 ppm, mercury at a concentration of 0.999 ppm, and naphthalene at an estimated concentration of 33,100 ppb. These contaminant concentrations exceed applicable NYSDEC *TAGM* Recommended *Soil Cleanup Objectives and/or Eastern USA Background Levels. As detailed in Table 2,* additional PP Metals, BN, and VO compounds also were detected at concentrations exceeding laboratory MDLs, but below applicable NYSDEC *TAGM* Recommended Soil Cleanup Objectives and/or Eastern USA Background Levels.

The following VO and BN constituents were detected at concentrations exceeding NYSDEC *TAGM* Groundwater Standards in laboratory analysis of groundwater sample 5444-B7-GW: vinyl chloride at an estimated concentration of 2.75 ppb, benzene at an estimated concentration of 5.0 ppb, toluene at a concentration of 12 ppb, total xylenes at an estimated concentration of 12.6 ppb, naphthalene at an estimated concentration of 15.5 ppb, and benzo(a)anthracene at an estimated concentration of 3.28 ppb. The NYSDEC *TAGM* Groundwater Standards for vinyl chloride, benzene, toluene, total, naphthalene, and benzo(a)anthracene are 2 ppb, 0.7 ppb, 5 ppb, 5 ppb, 10 ppb, and 0.002 ppb, respectively. As detailed in Table 3, additional VO and BN compounds were detected above laboratory

MDLs in groundwater sample 5444-B7-GW, however these concentrations do not exceed applicable NYSDEC *TAGM* Groundwater Standards for these compounds.

4.0 RECOMMENDATIONS AND CONCLUSIONS

Whitestone conducted limited Phase II SI activities to preliminarily determine if on-site conditions have been adversely impacted by historical placement of fill material and/or historical site operations which included a municipal incinerator and associated junkyard. Based on the limited soil sampling and analyses described herein, each of the four soil samples submitted for laboratory analyses exhibited VO, BN compounds, and/or PP Metals at concentrations exceeding applicable NYSDEC *TAGM* Recommended Soil Cleanup Standards and/or Eastern USA Background Levels. Furthermore, each of the two groundwater samples submitted for laboratory analyses exhibited VO and BN constituents at concentrations exceeding NYSDEC *TAGM* Groundwater Standards.

The contaminant conditions identified above indicate a site-wide contamination condition within the fill material. This condition must be reported to NYSDEC by the site owner and the site owner may enter into NYSDEC's Voluntary Cleanup Program (VCP). Supplemental site investigation activities should be conducted pursuant to NYSDEC's VCP to further characterize the fill material and groundwater and to determine potential corrective action alternatives. These supplemental activities would include collecting additional soil/fill samples for laboratory analysis and the installation and sampling of groundwater monitor wells.

From the data obtained to date, the impacted fill material identified on the subject property likely may remain on site with the implementation of engineering controls (asphalt cap, site building, etc.) and institutional controls (deed acknowledgment). Material requiring excavation for construction purposes will require a regulated off-site treatment/recycling and disposal unless this material can remain on site for non-structural applications.

The recommendations presented above are intended to supplement those outlined in Whitestone's May 17, 2002 *Summary Report of Findings - Phase I Environmental Site Assessment and Survey for Asbestos Containing Materials* for the subject site.

If you have any questions or require any additional information regarding these matters, please do not hesitate to contact us.

Sincerely,

WHITESTONE ASSOCIATES, INC.

Keith T. D'Ambrosio, P.E.
Manager, Environmental Services

Yohan Lee
Environmental Engineer

YML/jb X:\WStone\2002\5444\5444-P2SI.wpd
Enclosures
cc: Michael E. Jeitner, P.E., Bohler Engineering, Inc.
File #WP02-5444

WHITESTONE ASSOCIATES, INC.

TABLES 1 through 3
Soil and Groundwater Sampling and Analysis Summary Tables

TABLE 1
SOIL SAMPLING SUMMARY
Former Burger King Restaurant Site • 3 West State Street, Binghamton, Broome County, New York

Boring Number	Soil Sample Interval (fbgs)	Total Boring Depth (fbgs)	GW Depth (fbgs)	Maximum PID Reading (ppm)
B-1	7.0 to 7.5	20.0	17.0	0.0
B-2	NS	20.0	12.0	0.0
B-3	NS	16.0	10.0	0.0
B-4	7.0 to 7.5	18.5	NE	0.0
B-5	NS	14.5	12.5	0.0
B-6	NS	16.0	10.0	0.0
B-7	6.0 to 6.5	12.0	11.0	7.4
B-8	NS	12.0	11.0	0.0
B-9	13.5 to 14.0	8.0	NE	0.0

NOTES:

fbgs	feet below ground surface
GW	Groundwater
NE	Not Encountered
PID	Photoionization detector
ppm	parts per million
NS	Not Sampled

TABLE 2
SOIL SAMPLING & ANALYSIS DATA SUMMARY
Former Burger King Restaurant Site • 3 West State Street, Binghamton, Broome County, New York

Sample Number	PPMetals Detected Above MDLs (ppm)	VO Constituents Detected Above MDLs (ppb)	BN Constituents Detected Above MDLs (ppb)
5444-B1	*arsenic - 7.85 *beryllium - 0.434 *chromium - 13.4 *copper - 44.1 nickel - 15.9 lead - 122 **zinc - 209** mercury - 0.33	**benzene - 112 J** toluene - 237 J ethyl benzene - 203 J total xylenes - 279 J	bis(2-ethylhexyl)phthalate - 2,600
5444-B4	*arsenic - 8.25 *beryllium - 0.541 *chromium - 19.6 *copper - 31.6 *nickel - 19.3 lead - 156.0 **zinc - 165.0** mercury - 0.299	carbon disulfide - 3.90 J methylene chloride - 57.0	naphthalene - 801 J 2-methylnaphthalene - 298 J acenaphthene - 334 J fluorene - 311 J phenanthrene - 1,660 anthracene - 493 J carbazole - 480 J fluoranthene - 1,600 J pyrene - 1,510 J **benzo(a)anthracene - 791 J** **chrysene - 781 J** bis(2-ethylhexyl)phthalate - 1,700 benzo(b)fluoranthene - 605 J benzo(k)fluoranthene - 640 J **benzo(a)pyrene - 718 J** indeno(1,2,3-cd)pyrene - 291 J benzo(g,h,i)perylene - 304 J
5444-B7	arsenic - 6.62 *beryllium - 0.353 *chromium - 14.0 copper - 20.7 *nickel - 21.5 lead - 95.4 **zinc - 104**	**benzene - 103 J** trichloroethene - 236 J **toluene - 73,300** ethyl benzene - 5,360 **total xylenes - 27,280**	phenanthrene - 1,770 J fluoranthene - 2,090 J pyrene - 1,990 J **benzo(a)anthracene - 873 J** **chrysene - 1,070 J** bis(2-ethylhexyl)phthalate - 585 J benzo(b)fluoranthene - 732 J benzo(k)fluoranthene - 802 J **benzo(a)pyrene - 775 J**
5444-B9	**arsenic - 15.9** *beryllium - 0.489 **cadmium - 3.32** *chromium - 16.9 *copper - 26.5 *nickel - 23.3 lead - 352 **zinc - 32,700** mercury - 0.999	acetone - 76.5 2-butanone - 11.5 total xylenes - 1.22 J	**naphthalene - 33,400 J** 2-methylnaphthalene - 19,500 J

NOTES:

[BOLD]	Exceeds NYSDEC *Technical and Administrative Guidance Memorandum* Recommended Soil Cleanup Objectives and/or Eastern USA Background Level Ranges
*	Exceeds NYSDEC *Technical and Administrative Guidance Memorandum* Recommended Soil Cleanup Objectives but within Eastern USA Background Level Ranges
VO	Volatile Organics (Method 8260)
BN	Base Neutral Organics (Method 8270)
PP Metals	Priority Pollutant Metals (Method 6010 and 7471)
ppb	parts per billion
ppm	parts per million
MDL	Laboratory Method Detection Limits
J	Indicates an estimated concentration

TABLE 3
GROUNDWATER SAMPLING & ANALYSIS DATA SUMMARY
Former Burger King Restaurant Site • 3 West State Street, Binghamton, Broome County, New York

Sample Number	VO Constituents Detected Above MDLs (ppb)	BN Constituents Detected Above MDLs (ppb)
5444-B1-GW	acetone - 17.4 J **benzene - 9.80 J** **ethyl benzene - 7.35 J** total xylenes - 3.20 J	**naphthalene - 82.3** 2-methylnaphthalene - 13.3 J acenaphthylene - 6.91 J acenaphthene - 40.3 fluorene - 23.6 phenanthrene - 74.7 anthracene - 17.1 J fluoranthene - 23.9 pyrene - 44.2 **benzo(a)anthracene - 11.8 J** chrysene - 11.1 J bis(2-ethylhexyl)phthalate - 8.35 J **benzo(b)fluoranthene - 5.44 J** **benzo(k)fluoranthene - 6.74 J** benzo(a)pyrene - 10.8 J benzo(g,h,i)perylene - 4.81 J
5444-B7-GW	**vinyl chloride - 2.75 J** acetone - 22.8 J 1,1-dichloroethane - 2.60 J cis-1,2-dichloroethene - 2.50 J **benzene - 5.00 J** **toluene - 121** **total xylenes - 12.6 J**	naphthalene - 15.5 J 2-methylnaphthalene - 6.40 J acenaphthene - 5.56 J dibenzofuran - 4.04 J fluorene - 8.12 J phenanthrene - 17.3 J anthracene - 3.44 J carbazole - 4.84 J fluoranthene - 10.7 J pyrene - 8.44 J **benzo(a)anthracene - 3.28 J** bis(2-ethylhexyl)phthalate - 8.40 J

NOTES:

[BOLD]	Exceeds NYSDEC *Technical and Administrative Guidance Memorandum* Groundwater Standard
VO	Volatile Organics (Method 8260)
BN	Base Neutral Organics (Method 8270)
ppb	parts per billion
ppm	parts per million
MDL	Laboratory Method Detection Limits
J	Indicates an estimated concentration

WHITESTONE ASSOCIATES INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-1

Project:	Existing Burger King Restaurant	WAI Project No.:	WP02-5444
Location:	3 West State Street; Binghamton, Broome County, NY	Client:	McDonald's Corporation

Surface Elevation:	Not Surveyed	Date Started:	09/05/02	Water Depths (feet)	Cave-in Depths (feet)
Termination Depth:	20.0 feet bgs	Date Completed:	09/05/02		
Proposed Location:		Logged By:	Y. Lee	While Drilling: 17.0 ▽	
Drilling/Test Method:	Hammer / Macrocore	Driller:	Enviroprobe	At Completion: ▽	At Completion:
		Rig Type:	Geoprobe 5400		

Sample Information					Depth (feet)	Strata	DESCRIPTION OF MATERIALS (Classification)	PID READINGS (ppm)	REMARKS
Depth (feet)	Number	Type	Blows Per 6" / Recovery	N					
0.0 - 4.0			28 in.		0	FILL	Fine to Medium Sand and Silt, Some Gravel, Little Brick Fragments, Little Asphalt (FILL)	0.0 0.0 0.0 0.0 0.0	
4.0 - 8.0			28 in.		4.0		Gray Silt and Some Fine Sand, Some Gravel, Little Paper/Ash, Faint Petroleum Odor at 7.0 to 8.0 fbgs (FILL)	0.0 0.0 0.0 0.0 0.0	
8.0 - 12.0			16 in.		8.0		As Above	0.0 0.0 0.0	
12.0 - 16.0			18 in.		12.0		As Above	0.0 0.0 0.0	
16.0 - 20.0			12 in.		16.0 ▽ 17.0		Gray Clay, Some Fine Sand and Gravel	0.0 0.0	
					20.0		Boring B-1 Terminated at 20.0 Feet Below Ground Surface Sampled @ 7.0 to 7.5 fbgs		

NOTES: NR = No Recovery

WHITESTONE ASSOCIATES INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-2

Project:	Existing Burger King Restaurant	WAI Project No.:	WP02-5444
Location:	3 West State Street; Binghamton, Broome County, NY	Client:	McDonald's Corporation

				Water Depths (feet)	Caving Depths (feet)
Surface Elevation:	Not Surveyed	Date Started:	09/05/02		
Termination Depth:	20.0 feet bgs	Date Completed:	09/05/02		
Proposed Location:		Logged By:	Y. Lee	While Drilling: 12.0 ▽	
Drilling/Test Method:	Hammer / Macrocore	Driller:	Enviroprobe	At Completion: ▽	At Completion:
		Rig Type:	Geoprobe 5400		

Sample Information					Depth (feet)	Strata	DESCRIPTION OF MATERIALS (Classification)	PID READINGS (ppm)	REMARKS
Depth (feet)	Number	Type	Blows Per 6" / Recovery	N					
0.0 - 4.0			30 in.		0.0	FILL	Brown to Gray Silt, Some Fine Sand, Little Clay, Little Gravel (FILL)	0.0 0.0 0.0 0.0 0.0	
					4.0				
4.0 - 8.0			10 in.				As Above, Asphalt Layer at 10.0 fbgs (FILL)	0.0 0.0	
					8.0				
8.0 - 12.0			8 in.				As Above (FILL)	0.0 0.0	
					12.0 ▽				
12.0 - 16.0			16 in.				Gray Silt, Little Clay, Little Wood, Gravel and Glass (FILL)	0.0 0.0 0.0	
					16.0				
16.0 - 20.0			16 in.				As Above (FILL)	0.0 0.0	
					20.0				
							Boring B-2 Terminated at 20.0 Feet Below Ground Surface		

NOTES: NR = No Recovery

WHITESTONE ASSOCIATES INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-3

(Page 1 of 1)

Project:	Existing Burger King Restaurant	WAI Project No.:	WP02-5444
Location:	3 West State Street; Binghamton, Broome County, NY	Client:	McDonald's Corporation
Surface Elevation:	Not Surveyed	Date Started:	09/05/02
Termination Depth:	16.0 feet bgs	Date Completed:	09/05/02
Proposed Location:		Logged By:	Y. Lee
Drilling/Test Method:	Hammer / Macrocore	Driller:	Enviroprobe
		Rig Type:	Geoprobe 5400

Water Depths (feet)		Cave-in Depths (feet)
While Drilling:	10.0 ▽	
At Completion:	▽	At Completion

Sample Information					Depth (feet)	Strata	DESCRIPTION OF MATERIALS (Classification)	PID READINGS (ppm)	REMARKS
Depth (feet)	Number	Type	Blows Per 6" / Recovery	N					
0.0 - 4.0			42 in.		0.0	FILL	Brown to Gray Silt and Clay, Little Fine Sand and Gravel, Trace Brick Fragments, Wood and Glass (FILL)	0.0 0.0 0.0 0.0 0.0 0.0 0.0	
4.0 - 8.0			42 in.		4.0		As Above, Brick and Asphalt Layer at 6.5 fbgs, Faint Petroleum Odor at 7.0 to 8.0 fbgs (FILL)	0.0 0.0 0.0 0.0 0.0 0.0 0.0	
8.0 - 12.0			8 in.	▽	8.0		As Above, Wet (FILL)	0.0 0.0	
12.0 - 16.0			2 in.		12.0		As Above (FILL)	0.0	
					16.0		Boring B-3 Terminated at 16.0 Feet Below Ground Surface Due to Refusal		

NOTES: NR = No Recovery

WHITESTONE ASSOCIATES INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-4

Project:	Existing Burger King Restaurant	WAI Project No.:	WP02-5444
Location:	3 West State Street; Binghamton, Broome County, NY	Client:	McDonald's Corporation

Surface Elevation:	Not Surveyed	Date Started:	09/05/02	Water Depths (feet)	Caved Depths (feet)
Termination Depth:	18.5 feet bgs	Date Completed:	09/05/02		
Proposed Location:		Logged By:	Y. Lee	While Drilling: NE ▽	
Drilling/Test Method:	Hammer / Macrocore	Driller:	Enviroprobe	At Completion: ▽	At Completion:
		Rig Type:	Geoprobe 5400		

Sample Information					Depth (feet)	Strata	DESCRIPTION OF MATERIALS (Classification)	PID READINGS (ppm)	REMARKS
Depth (feet)	Number	Type	Blows Per 6" / Recovery	N					
0.0 - 4.0			24 in.		0.0	FILL	Brown to Light Brown Silt, Some Fine Sand, Some Gravel (FILL)	0.0 0.0 0.0 0.0	
					4.0				
4.0 - 8.0			20 in.				As Above (FILL)	0.0 0.0 0.0 0.0	
					8.0				
8.0 - 12.0			20 in.				Gray Organic Clay and Silt, Some Wood Fragments, Little Glass (FILL)	0.0 0.0 0.0	
					12.0				
12.0 - 16.0			2 in.					0.0	
					16.0				
16.0 - 18.5			2 in.				As Above, Little Wood Fragments (FILL)	0.0	
					18.5				
							Boring B-4 Terminated at 16.0 Feet Below Ground Surface Sampled @ 7.0 to 7.5 fbgs		

NOTES: NR = No Recovery

WHITESTONE ASSOCIATES, INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-5

(Page 1 of 1)

Project: Existing Burger King Restaurant — WAI Project No.: WP02-5444

Location: 3 West State Street; Binghamton, Broome County, NY — Client: McDonald's Corporation

Surface Elevation:	Not Surveyed	Date Started:	09/05/02	Water Depths (feet)	Cave-in Depths (feet)
Termination Depth:	14.5 feet bgs	Date Completed:	09/05/02		
Proposed Location:		Logged By:	Y. Lee	While Drilling: 12.5 ▽	
Drilling/Test Method:	Hammer / Macrocore	Driller:	Enviroprobe	At Completion: ▽	At Completion
		Rig Type:	Geoprobe 5400		

Sample Information					Depth (feet)	Strata	DESCRIPTION OF MATERIALS (Classification)	PID READINGS (ppm)	REMARKS
Depth (feet)	Number	Type	Blows Per 6" / Recovery	N					
0.0 - 4.0			24 in.		0.0	FILL	Brown to Dark Brown Medium Sand, Some Silt, Some Gravel, Little Brick, Wood Fragments and Glass (FILL)	0.0 0.0 0.0 0.0	
					4.0				
4.0 - 8.0			16 in.				As Above (FILL)	0.0 0.0 0.0 0.0	
					8.0				
8.0 - 12.0			8 in.				As Above (FILL)	0.0 0.0	
					12.0				
12.0 - 14.5			2 in.		▽ 12.5		Organic Gray Clay, Some Silt	0.0	
					14.5		Boring B-5 Terminated at 14.5 Feet Below Ground Surface Due to Refusal		

NOTES: NR = No Recovery

WHITESTONE ASSOCIATES INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-6

Project:	Existing Burger King Restaurant	WAI Project No.:	WP02-5444
Location:	3 West State Street; Binghamton, Broome County, NY	Client:	McDonald's Corporation

				Water Depths (feet)	Cave-in Depths (feet)
Surface Elevation:	Not Surveyed	Date Started:	09/05/02		
Termination Depth:	16.0 feet bgs	Date Completed:	09/05/02		
Proposed Location:		Logged By:	Y. Lee	While Drilling: 10.0 ▽	
Drilling/Test Method:	Hammer / Macrocore	Driller:	Enviroprobe	At Completion: ▽	At Completion:
		Rig Type:	Geoprobe 5400		

Sample Information					Depth (feet)	Strata	DESCRIPTION OF MATERIALS (Classification)	PID READINGS (ppm)	REMARKS
Depth (feet)	Number	Type	Blows Per 6" / Recovery	N					
0.0 - 4.0			28 in.		0	FILL	Sand, Gravel, Brick, Glass, Wood (FILL)	0.0 0.0 0.0 0.0 0.0	
					4.0				
4.0 - 8.0			14 in.				Gray Organic Silt, Some Clay, Trace Root Fragments, Brick and Wood (FILL)	0.0 0.0 0.0	
					8.0				
8.0 - 12.0			8 in.	▽			As Above (FILL)	0.0 0.0	
					12.0				
12.0 - 16.0			3 in.				As Above, Wet (FILL)	0.0 0.0	
					16.0				
							Boring B-6 Terminated at 16.0 Feet Below Ground Surface		

NOTES: NR = No Recovery

WHITESTONE ASSOCIATES, INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-7

(Page 1 of 1)

Project:	Existing Burger King Restaurant	WAI Project No.:	WP02-5444
Location:	3 West State Street; Binghamton, Broome County, NY	Client:	McDonald's Corporation

						Water Depths (feet)		Cave-in Depths (feet)
Surface Elevation:	Not Surveyed	Date Started:	09/05/02					
Termination Depth:	12.0 feet bgs	Date Completed:	09/05/02					
Proposed Location:		Logged By:	Y. Lee	While Drilling:	11.0	▽		
Drilling/Test Method:	Hammer / Macrocore	Driller:	Enviroprobe	At Completion:		▽	At Completion:	
		Rig Type:	Geoprobe 5400					

Sample Information					Depth (feet)	Strata	DESCRIPTION OF MATERIALS (Classification)	PID READINGS (ppm)	REMARKS
Depth (feet)	Number	Type	Blows Per 6" / Recovery	N					
0.0 - 4.0			24 in.		0.0	FILL	Dark Brown to Black Silt, Some Gravel, Glass, Wood Fragments (FILL)	0.0 0.0 0.0 0.0	
					4.0				
4.0 - 8.0			20 in.				As Above, Petroleum Stained Soil (FILL)	0.0 0.0 0.0 7.4	
					8.0				
8.0 - 12.0			46 in.				As Above (FILL)	0.0 0.0 0.0 0.0 0.0 0.0 0.0	
					12.0		Boring B-7 Terminated at 12.0 Feet Below Ground Surface Sampled @ 6.0 to 6.5 fbgs		

NOTES: NR = No Recovery

WHITESTONE ASSOCIATES INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-8

(Page 1 of 1)

Project:	Existing Burger King Restaurant	WAI Project No.:	WP02-5444
Location:	3 West State Street; Binghamton, Broome County, NY	Client:	McDonald's Corporation

				Water Depths (feet)	Cave-in Depths (feet)
Surface Elevation:	Not Surveyed	Date Started:	09/05/02		
Termination Depth:	12.0 feet bgs	Date Completed:	09/05/02		
Proposed Location:		Logged By:	Y. Lee	While Drilling: 11.0 ▽	
Drilling/Test Method:	Hammer / Macrocore	Driller:	Enviroprobe	At Completion: ▽	At Completion:
		Rig Type:	Geoprobe 5400		

Sample Information					Depth (feet)	Strata	DESCRIPTION OF MATERIALS (Classification)	PID READINGS (ppm)	REMARKS
Depth (feet)	Number	Type	Blows Per 6" / Recovery	N					
0.0 - 4.0			24 in.		4.0	FILL	Gray Silt, Some Gravel and Sand, Little Glass, Wood Fragments (FILL)	0.0 0.0 0.0 0.0	
4.0 - 8.0			18 in.		8.0		As Above (FILL)	0.0 0.0 0.0	
8.0 - 12.0			8 in.		12.0		As Above (FILL)	0.0 0.0	
							Boring B-8 Terminated at 12.0 Feet Below Ground Surface		

NOTES: NR = No Recovery

WHITESTONE ASSOCIATES INC.

RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-9

(Page 1 of 1)

Project:	Existing Burger King Restaurant	WAI Project No.:	WP02-5444
Location:	3 West State Street; Binghamton, Broome County, NY	Client:	McDonald's Corporation
Surface Elevation:	Not Surveyed	Date Started:	09/05/02
Termination Depth:	14.0 feet bgs	Date Completed:	09/05/02
Proposed Location:		Logged By:	Y. Lee
Drilling/Test Method:	Hammer / Macrocore	Driller:	Enviroprobe
		Rig Type:	Geoprobe 5400
Water Depths (feet)		While Drilling:	NE ▽
		At Completion:	▽
Cave-in Depths (feet)		At Completion:	

Sample Information: Depth (feet)	Number	Type	Blows Per 6" / Recovery	N	Depth (feet)	Strata	DESCRIPTION OF MATERIALS (Classification)	PID READINGS (ppm)	REMARKS
0.0 - 4.0			28 in.		4.0	FILL	Gray Silt, Some Gravel and Sand, Wood, Brick, Glass Fragments (FILL)	0.0 0.0 0.0 0.0 0.0	
4.0 - 8.0			28 in.		8.0		As Above (FILL)	0.0 0.0 0.0	
8.0 - 12.0			16 in.		12.0		As Above (FILL)	0.0 0.0 0.0	
12.0 - 14.0			18 in.		14.0		As Above, Faint Petroleum Odor (FILL)	0.0	
							Boring B-9 Terminated at 14.0 Feet Below Ground Surface Due to Refusal Sampled @ 13.5 to 14.0 fbgs		

NOTES: NR = No Recovery

WHITESTONE ASSOCIATES, INC.

ATTACHMENT B
Laboratory Analytical Results

QC Laboratories

Analytical Results

09/16/02 02:26pm

KEITH D'AMBROSIO
WHITESTONE ASSOCIATES
1120 WELSH ROAD
SUITE 100
NORTH WALES, PA 19454

Regarding:

KEITH D'AMBROSIO
WHITESTONE ASSOCIATES
1120 WELSH ROAD
SUITE 100
NORTH WALES, PA 19454

Account No: B00195, WHITESTONE ASSOCIATES PA
Project No: B00195, WHITESTONE ASSOCIATES PA

P.O. No: WP02-5444 Inv. No:
PWSID No:

Sample Number: L941115-1
Sample Description: WP02 5444 21
Received Temp: 37°F Iced (Y/N): Y
Samp. Date/Time/Temp: 09/05/02 10:00am AA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
SILVER	SW846 Method 6010	ND mg/kg DRY	1.13 mg/kg	09/12/02 10:56AM JAB
ARSENIC	SW846 Method 6010	7.85 mg/kg DRY	1.13 mg/kg	09/12/02 10:56AM JAB
BERYLLIUM	SW846 Method 6010	0.434 mg/kg DRY	0.227 mg/kg	09/12/02 10:56AM JAB
CADMIUM	SW846 Method 6010	ND mg/kg DRY	0.453 mg/kg	09/12/02 10:56AM JAB
CHROMIUM	SW846 Method 6010	13.4 mg/kg DRY	1.13 mg/kg	09/12/02 10:56AM JAB
COPPER	SW846 Method 6010	44.1 mg/kg DRY	1.13 mg/kg	09/12/02 10:56AM JAB
NICKEL	SW846 Method 6010	15.9 mg/kg DRY	1.13 mg/kg	09/12/02 10:56AM JAB
LEAD	SW846 Method 6010	122. mg/kg DRY	1.27 mg/kg	09/12/02 10:56AM JAB
ANTIMONY	SW846 Method 6010	ND mg/kg DRY	1.27 mg/kg	09/12/02 10:56AM JAB
SELENIUM	SW846 Method 6010	ND mg/kg DRY	1.27 mg/kg	09/12/02 10:56AM JAB
THALLIUM	SW846 Method 6010	ND mg/kg DRY	1.13 mg/kg	09/12/02 10:56AM JAB
ZINC	SW846 Method 6010	209. mg/kg DRY	1.13 mg/kg	09/12/02 10:56AM JAB
MERCURY	SW846 Method 7471	0.330 mg/kg DRY	0.112 mg/kg	09/12/02 01:43PM JAB
N NITROSODIMETHYLAMINE	EPA Method 8270	ND ug/kg DRY	375. ug/kg	09/12/02 02:55PM AJB
BIS(2 CHLOROETHYL) ETHER	EPA Method 8270	ND ug/kg DRY	187. ug/kg	09/12/02 02:55PM AJB
1,3-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	134. ug/kg	09/12/02 02:55PM AJB
1,4-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	177. ug/kg	09/12/02 02:55PM AJB
BENZYL ALCOHOL	EPA Method 8270	ND ug/kg DRY	156. ug/kg	09/12/02 02:55PM AJB
1,2-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	174. ug/kg	09/12/02 02:55PM AJB
BIS(2-CHLOROISOPROPYL) ETHER	EPA Method 8270	ND ug/kg DRY	132. ug/kg	09/12/02 02:55PM AJB
N-NITROSO-DI-N-PROPYLAMINE	EPA Method 8270	ND ug/kg DRY	152. ug/kg	09/12/02 02:55PM AJB
HEXACHLOROETHANE	EPA Method 8270	ND ug/kg DRY	196. ug/kg	09/12/02 02:55PM AJB
NITROBENZENE	EPA Method 8270	ND ug/kg DRY	111. ug/kg	09/12/02 02:55PM AJB
ISOPHORONE	EPA Method 8270	ND ug/kg DRY	178. ug/kg	09/12/02 02:55PM AJB
BENZOIC ACID	EPA Method 8270	ND ug/kg DRY	1060 ug/kg	09/12/02 02:55PM AJB

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accidental
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the Laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requir
holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA166, PEN-NELAP labs: Wind Gap-NJ PA001,
Alltest-NJ 02015, Vineland-NJ 06005;PA 68-530.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-1900 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA
Project No: 800195, WHITESTONE ASSOCIATES PA

P.O. No: 9102-5444
PWSID No:

Inv. No:

Sample Number: L941115-1
Sample Description: WP02-5444-31
Samp. Date/Time/Temp: 09/05/02 10:( )am NA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
BIS(2-CHLOROETHOXY)METHANE	EPA Method 8270	ND ug/kg DRY	180. ug/kg	09/11/02 02:55PM A B
1,2,4-TRICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	192. ug/kg	09/11/02 02:55PM A B
NAPHTHALENE	EPA Method 8270	ND ug/kg DRY	131. ug/kg	09/11/02 02:55PM A B
4-CHLOROANILINE	EPA Method 8270	ND ug/kg DRY	140 ug/kg	09/11/02 02:55PM A B
HEXACHLOROBUTADIENE	EPA Method 8270	ND ug/kg DRY	150. ug/kg	09/11/02 02:55PM A B
2-METHYLNAPHTHALENE	EPA Method 8270	ND ug/kg DRY	300 ug/kg	09/11/02 02:55PM A B
HEXACHLOROCYCLOPENTADIENE	EPA Method 8270	ND ug/kg DRY	52. ug/kg	09/11/02 02:55PM A B
2-CHLORONAPHTHALENE	EPA Method 8270	ND ug/kg DRY	17. ug/kg	09/11/02 02:55PM A B
2-NITROANILINE	EPA Method 8270	ND ug/kg DRY	76. ug/kg	09/11/02 02:55PM A B
DIMETHYL PHTHALATE	EPA Method 8270	ND ug/kg DRY	34. ug/kg	09/11/02 02:55PM A B
ACENAPHTHYLENE	EPA Method 8270	ND ug/kg DRY	14. ug/kg	09/11/02 02:55PM A B
2,6-DINITROTOLUENE	EPA Method 8270	ND ug/kg DRY	34. ug/kg	09/11/02 02:55PM A B
3-NITROANILINE	EPA Method 8270	ND ug/kg DRY	110 ug/kg	09/11/02 02:55PM A B
ACENAPHTHENE	EPA Method 8270	ND ug/kg DRY	15. ug/kg	09/11/02 02:55PM A B
DIBENZOFURAN	EPA Method 8270	ND ug/kg DRY	16. ug/kg	09/11/02 02:55PM A B
2,4-DINITROTOLUENE	EPA Method 8270	ND ug/kg DRY	60. ug/kg	09/11/02 02:55PM A B
DIETHYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	145. ug/kg	09/11/02 02:55PM A B
4-CHLOROPHENYL PHENYL ETHER	EPA Method 8270	ND ug/kg DRY	43. ug/kg	09/11/02 02:55PM A B
FLUORENE	EPA Method 8270	ND ug/kg DRY	32. ug/kg	09/11/02 02:55PM A B
4-NITROANILINE	EPA Method 8270	ND ug/kg DRY	550 ug/kg	09/11/02 02:55PM A B
1,2-DIPHENYLHYDRAZINE	EPA Method 8270	ND ug/kg DRY	75. ug/kg	09/11/02 02:55PM A B
N-NITROSODIPHENYLAMINE	EPA Method 8270	ND ug/kg DRY	67. ug/kg	09/11/02 02:55PM A B
4-BROMOPHENYL PHENYL ETHER	EPA Method 8270	ND ug/kg DRY	50. ug/kg	09/11/02 02:55PM A B
HEXACHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	54. ug/kg	09/11/02 02:55PM A B
PHENANTHRENE	EPA Method 8270	ND ug/kg DRY	50. ug/kg	09/11/02 02:55PM A B
ANTHRACENE	EPA Method 8270	ND ug/kg DRY	34. ug/kg	09/11/02 02:55PM A B
CARBAZOLE	EPA Method 8270	ND ug/kg DRY	100 ug/kg	09/11/02 02:55PM A B
DI-N-BUTYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	71. ug/kg	09/11/02 02:55PM A B
FLUORANTHENE	EPA Method 8270	ND ug/kg DRY	37. ug/kg	09/11/02 02:55PM A B
BENZIDINE	EPA Method 8270	ND ug/kg DRY	1700 ug/kg	09/11/02 02:55PM A B
PYRENE	EPA Method 8270	ND ug/kg DRY	70. ug/kg	09/11/02 02:55PM A B
BUTYL BENZYL PHTHALATE	EPA Method 8270	ND ug/kg DRY	17. ug/kg	09/11/02 02:55PM A B
3,3'-DICHLOROBENZIDINE	EPA Method 8270	ND ug/kg DRY	1100 ug/kg	09/11/02 02:55PM A B
BENZO(A)ANTHRACENE	EPA Method 8270	ND ug/kg DRY	37. ug/kg	09/11/02 02:55PM A B
CHRYSENE	EPA Method 8270	ND ug/kg DRY	34. ug/kg	09/11/02 02:55PM A B
BIS(2-ETHYLHEXYL) PHTHALATE	EPA Method 8270	2600 ug/kg DRY	21. ug/kg	09/11/02 02:55PM A B
DI-N-OCTYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	35. ug/kg	09/11/02 02:55PM A B

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA166. Non-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005;PA 66-530.
All samples are collected as "grab" samples unless otherwise identified.

 Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: B00195, WHITESTONE ASSOCIATES PA C.O. No: 9102-5444 Inv. No:
Project No: B00195, WHITESTONE ASSOCIATES PA PWSID No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
L941115-1	WP02-5444-31	09/05/02 10:00am NA°F	Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
BENZO(B)FLUORANTHENE	EPA Method 8270	ND ug/kg DRY	317. ug/kg	09/11/02 02:55PM EB
BENZO(K)FLUORANTHENE	EPA Method 8270	ND ug/kg DRY	304. ug/kg	09/11/02 02:55PM EB
BENZO(A)PYRENE	EPA Method 8270	ND ug/kg DRY	457. ug/kg	09/11/02 02:55PM EB
INDENO(1,2,3-CD)PYRENE	EPA Method 8270	ND ug/kg DRY	245. ug/kg	09/11/02 02:55PM EB
DIBENZ(A,H)ANTHRACENE	EPA Method 8270	ND ug/kg DRY	246. ug/kg	09/11/02 02:55PM EB
BENZO(G,H,I)PERYLENE	EPA Method 8270	ND ug/kg DRY	257. ug/kg	09/11/02 02:55PM EB
HEXADECANOIC ACID	EPA 8270 Library Search	2660 JN ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN-1	EPA 8270 Library Search	5160 J ug/kg DRY		09/11/02 02:55PM EB
SUBSTITUTED PAH 1	EPA 8270 Library Search	2130 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN ALKANE 1	EPA 8270 Library Search	1260 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN-2	EPA 8270 Library Search	1320 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN ALKANE-2	EPA 8270 Library Search	2510 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN ALKANE-3	EPA 8270 Library Search	1030 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN ALKANE-4	EPA 8270 Library Search	1380 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN ALKANE-5	EPA 8270 Library Search	2100 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN ALKANE-6	EPA 8270 Library Search	1260 J ug/kg DRY		09/11/02 02:55PM EB
SUBSTITUTED PAH-2	EPA 8270 Library Search	1200 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN-3	EPA 8270 Library Search	2560 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN-4	EPA 8270 Library Search	1490 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN-5	EPA 8270 Library Search	2280 J ug/kg DRY		09/11/02 02:55PM EB
UNKNOWN-6	EPA 8270 Library Search	1240 J ug/kg DRY		09/11/02 02:55PM EB
CHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	193. ug/kg	09/10/02 02:50PM NJP
VINYL CHLORIDE	EPA Method 8260	ND ug/kg DRY	193. ug/kg	09/10/02 02:50PM NJP
BROMOMETHANE	EPA Method 8260	ND ug/kg DRY	1270 ug/kg	09/10/02 02:50PM NJP
CHLOROETHANE	EPA Method 8260	ND ug/kg DRY	425. ug/kg	09/10/02 02:50PM NJP
1,1 DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	425. ug/kg	09/10/02 02:50PM NJP
ACETONE	EPA Method 8260	ND ug/kg DRY	1420 ug/kg	09/10/02 02:50PM NJP
CARBON DISULFIDE	EPA Method 8260	ND ug/kg DRY	157. ug/kg	09/10/02 02:50PM NJP
METHYLENE CHLORIDE	EPA Method 8260	ND ug/kg DRY	850. ug/kg	09/10/02 02:50PM NJP
TRANS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	142. ug/kg	09/10/02 02:50PM NJP
ACROLEIN	EPA Method 8260	ND ug/kg DRY	1130 ug/kg	09/10/02 02:50PM NJP
ACRYLONITRILE	EPA Method 8260	ND ug/kg DRY	1270 ug/kg	09/10/02 02:50PM NJP
1,1-DICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	19.2 ug/kg	09/10/02 02:50PM NJP
VINYL ACETATE	EPA Method 8260	ND ug/kg DRY	1130 ug/kg	09/10/02 02:50PM NJP
CIS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	13.6 ug/kg	09/10/02 02:50PM NJP
2-BUTANONE	EPA Method 8260	ND ug/kg DRY	567. ug/kg	09/10/02 02:50PM NJP
CHLOROFORM	EPA Method 8260	ND ug/kg DRY	13.6 ug/kg	09/10/02 02:50PM NJP

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accriden
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the regular
holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PA09R 09-131,NJDEP PA356, NON-NELAP labs: Wind Gap-NJ PA001,
Allfest-NJ 02015, Vineland-NJ 06005;PA 68-530.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allan D. Schopbach

Allan D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/03 02:26pm

Account No: B00195, WHITESTONE ASSOCIATES PA
Project No: B00195, WHITESTONE ASSOCIATES PA

C.O. No: 0003-5444 Inv. No:
PWSID No:

Sample Number: LB61115-1
Sample Description: WP03-5444-21
Samp. Date/Time/Temp: 09/05/03 10:30am AR°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
1,1,1-TRICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	283. ug/kg	09/10/03 02:50PM MEP
CARBON TETRACHLORIDE	EPA Method 8260	ND ug/kg DRY	283. ug/kg	09/10/03 02:50PM MEP
BENZENE	EPA Method 8260	113. J ug/kg DRY	70.8 ug/kg	09/10/03 02:50PM MEP
1,2-DICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	70.8 ug/kg	09/10/03 02:50PM MEP
TRICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	113. ug/kg	09/10/03 02:50PM MEP
1,2-DICHLOROPROPANE	EPA Method 8260	ND ug/kg DRY	113. ug/kg	09/10/03 02:50PM MEP
BROMODICHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	283. ug/kg	09/10/03 02:50PM MEP
2-CHLOROETHYL VINYL ETHER	EPA Method 8260	ND ug/kg DRY	1700 ug/kg	09/10/03 02:50PM MEP
CIS 1,3 DICHLOROPROPENE	EPA Method 8260	ND ug/kg DRY	283. ug/kg	09/10/03 02:50PM MEP
4 METHYL 2 PENTANONE	EPA Method 8260	ND ug/kg DRY	567. ug/kg	09/10/03 02:50PM MEP
TOLUENE	EPA Method 8260	237. J ug/kg DRY	70.8 ug/kg	09/10/03 02:50PM MEP
TRANS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/kg DRY	283. ug/kg	09/10/03 02:50PM MEP
1,1,2-TRICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	70.8 ug/kg	09/10/03 02:50PM MEP
TETRACHLOROETHENE	EPA Method 8260	ND ug/kg DRY	283. ug/kg	09/10/03 02:50PM MEP
2-HEXANONE	EPA Method 8260	ND ug/kg DRY	1700 ug/kg	09/10/03 02:50PM MEP
DIBROMOCHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	283. ug/kg	09/10/03 02:50PM MEP
CHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	56.7 ug/kg	09/10/03 02:50PM MEP
ETHYL BENZENE	EPA Method 8260	201. J ug/kg DRY	56.7 ug/kg	09/10/03 02:50PM MEP
M&P-XYLENES	EPA Method 8260	279. J ug/kg DRY	142. ug/kg	09/10/03 02:50PM MEP
O-XYLENE	EPA Method 8260	ND ug/kg DRY	70.8 ug/kg	09/10/03 02:50PM MEP
STYRENE	EPA Method 8260	ND ug/kg DRY	283. ug/kg	09/10/03 02:50PM MEP
BROMOFORM	EPA Method 8260	ND ug/kg DRY	425. ug/kg	09/10/03 02:50PM MEP
1,1,2,2-TETRACHLOROETHANE	EPA Method 8260	ND ug/kg DRY	425. ug/kg	09/10/03 02:50PM MEP
1,3-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	70.8 ug/kg	09/10/03 02:50PM MEP
1,4-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	12.5 ug/kg	09/10/03 02:50PM MEP
1,2 DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	15.0 ug/kg	09/10/03 02:50PM MEP
DIETHYLBENZENE ISOMER	EPA 8260 Library Search	709. J ug/kg DRY		09/10/03 02:50PM MEP
UNKNOWN AROMATIC	EPA 8260 Library Search	836. J ug/kg DRY		09/10/03 02:50PM MEP
TETRAMETHYLBENZENE ISOMER-1	EPA 8260 Library Search	796. J ug/kg DRY		09/10/03 02:50PM MEP
TETRAMETHYLBENZENE ISOMER-2	EPA 8260 Library Search	768. J ug/kg DRY		09/10/03 02:50PM MEP
NAPHTHALENE	EPA 8260 Library Search	1540 NJ ug/kg DRY		09/10/03 02:50PM MEP
TOTAL SOLIDS PERCENT	STD Methods 18th Ed. 2540G	88.24 %	0.0100 %	09/09/03 04:30PM JF

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND-not detected; NEG-negative; POS-positive; COL-colonies; RLs-laboratory reporting limits; L/A-Laboratory accident
TNTC-too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test pH label is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requir holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 68-521,NJDEP PA016, NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 05005;PA 68-580.
All samples are collected as "grab" samples unless otherwise identified.

Unverified Copy

Allen D. Schopbach

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3300 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA
Project No: 800195, WHITESTONE ASSOCIATES PA

P.O. No: W02-5444
PWSID No:

Inv. No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
2941115-3	5444-B4 Received Temp: 37°F Iced (Y/N): Y	09/05/02 12:[illegible]pm NA°F	Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
SILVER	SW846 Method 6010	ND mg/kg DRY	[illegible].32 mg/kg	09/1[illegible]/02 10:56AM [illegible]
ARSENIC	SW846 Method 6010	8.25 mg/kg DRY	[illegible].32 mg/kg	09/11/02 10:56AM [illegible]
BERYLLIUM	SW846 Method 6010	0.541 mg/kg DRY	[illegible] 262 mg/kg	09/11/02 10:56AM [illegible]
CADMIUM	SW846 Method 6010	ND mg/kg DRY	[illegible] 529 mg/kg	09/11/02 10:56AM [illegible]
CHROMIUM	SW846 Method 6010	13.6 mg/kg DRY	[illegible].32 mg/kg	09/11/02 10:56AM [illegible]
COPPER	SW846 Method 6010	31.6 mg/kg DRY	[illegible].32 mg/kg	09/11/02 10:56AM [illegible]
NICKEL	SW846 Method 6010	19.3 mg/kg DRY	1.32 mg/kg	09/11/02 10:56AM [illegible]
LEAD	SW846 Method 6010	156. mg/kg DRY	[illegible].65 mg/kg	09/11/02 10:56AM [illegible]
ANTIMONY	SW846 Method 6010	ND mg/kg DRY	[illegible].65 mg/kg	09/11/02 10:56AM [illegible]
SELENIUM	SW846 Method 6010	ND mg/kg DRY	1.65 mg/kg	09/11/02 10:56AM [illegible]
THALLIUM	SW846 Method 6010	ND mg/kg DRY	[illegible].32 mg/kg	09/11/02 10:56AM [illegible]
ZINC	SW846 Method 6010	165. mg/kg DRY	[illegible].32 mg/kg	09/11/02 10:56AM [illegible]
MERCURY	SW846 Method 7471	0.299 mg/kg DRY	[illegible] 132 mg/kg	09/11/02 01:43PM [illegible]
N-NITROSODIMETHYLAMINE	EPA Method 8270	ND ug/kg DRY	[illegible]22. ug/kg	09/11/02 03:39PM [illegible]
BIS(2-CHLOROETHYL) ETHER	EPA Method 8270	ND ug/kg DRY	[illegible]47. ug/kg	09/11/02 03:39PM [illegible]
1,3-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	[illegible]37. ug/kg	09/11/02 03:39PM [illegible]
1,4-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	[illegible]23. ug/kg	09/11/02 03:39PM [illegible]
BENZYL ALCOHOL	EPA Method 8270	ND ug/kg DRY	[illegible]130 ug/kg	09/11/02 03:39PM [illegible]
1,2-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	[illegible]36. ug/kg	09/1[illegible]/02 03:39PM [illegible]
BIS(2-CHLOROISOPROPYL) ETHER	EPA Method 8270	ND ug/kg DRY	[illegible]52. ug/kg	09/1[illegible]/02 03:39PM [illegible]
N-NITROSO-DI-N-PROPYLAMINE	EPA Method 8270	ND ug/kg DRY	[illegible]73. ug/kg	09/11/02 03:39PM [illegible]
HEXACHLOROETHANE	EPA Method 8270	ND ug/kg DRY	[illegible]10. ug/kg	09/11/02 03:39PM [illegible]
NITROBENZENE	EPA Method 8270	ND ug/kg DRY	3[illegible]3. ug/kg	09/11/02 03:39PM [illegible]
ISOPHORONE	EPA Method 8270	ND ug/kg DRY	3[illegible]5. ug/kg	09/11/02 03:39PM [illegible]
BENZOIC ACID	EPA Method 8270	ND ug/kg DRY	[illegible]90 ug/kg	09/11/02 03:39PM [illegible]
BIS(2-CHLOROETHOXY)METHANE	EPA Method 8270	ND ug/kg DRY	[illegible]0. ug/kg	09/11/02 03:39PM [illegible]
1,2,4-TRICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	[illegible]2. ug/kg	09/11/02 03:39PM [illegible]
NAPHTHALENE	EPA Method 8270	801. J ug/kg DRY	[illegible]8. ug/kg	09/11/02 03:39PM [illegible]
4-CHLOROANILINE	EPA Method 8270	ND ug/kg DRY	[illegible]30 ug/kg	09/11/02 03:39PM [illegible]
HEXACHLOROBUTADIENE	EPA Method 8270	ND ug/kg DRY	[illegible]8. ug/kg	09/11/02 03:39PM [illegible]
2-METHYLNAPHTHALENE	EPA Method 8270	298. J ug/kg DRY	[illegible]170 ug/kg	09/11/02 03:39PM [illegible]
HEXACHLOROCYCLOPENTADIENE	EPA Method 8270	ND ug/kg DRY	[illegible]0. ug/kg	09/11/02 03:39PM [illegible]
2-CHLORONAPHTHALENE	EPA Method 8270	ND ug/kg DRY	[illegible]4. ug/kg	09/11/02 03:39PM [illegible]
2-NITROANILINE	EPA Method 8270	ND ug/kg DRY	[illegible]40 ug/kg	09/11/02 03:39PM [illegible]
DIMETHYL PHTHALATE	EPA Method 8270	ND ug/kg DRY	[illegible]3. ug/kg	09/11/02 03:39PM [illegible]
ACENAPHTHYLENE	EPA Method 8270	ND ug/kg DRY	[illegible]0. ug/kg	09/1[illegible]/02 03:39PM [illegible]
2,6-DINITROTOLUENE	EPA Method 8270	ND ug/kg DRY	[illegible] ug/kg	09/1[illegible]/02 03:39PM [illegible]

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND-not detected; NEG-negative; POS-positive; COL-colonies; RLs-laboratory reporting limits; L/A-laboratory accid[illegible]
TNTC-too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test pH lab is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <48 hrs are available upon request. All testing is completed within the requ[illegible]
holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADEP 09-131,NJDEP PA166. NON-NELAP labs: Wind Gap-NJ PA001,
Alltest-NJ 02015, Vineland-NJ 06005;PA 68-530.
All samples are collected as "grab" samples unless otherwise identified.

 Unserialized Copy

Allen O. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-39[illegible] Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA P.O. No: 0002-5444 Inv. No:
Project No: 800195, WHITESTONE ASSOCIATES PA PWSID No:

Sample Number: 2941115-2 Sample Description: 5444-04
Samp. Date/Time/Temp: 09/05/02 12:10pm NA°F Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
3-NITROANILINE	EPA Method 8270	ND ug/kg DRY	1260 ug/kg	09/11/02 03:39PM EB
ACENAPHTHENE	EPA Method 8270	334. J ug/kg DRY	251. ug/kg	09/11/02 03:39PM EB
DIBENZOFURAN	EPA Method 8270	ND ug/kg DRY	1370 ug/kg	09/11/02 03:39PM EB
2,4-DINITROTOLUENE	EPA Method 8270	ND ug/kg DRY	333. ug/kg	09/11/02 03:39PM EB
DIETHYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	296. ug/kg	09/11/02 03:39PM EB
4-CHLOROPHENYL PHENYL ETHER	EPA Method 8270	ND ug/kg DRY	234. ug/kg	09/11/02 03:39PM EB
FLUORENE	EPA Method 8270	311. J ug/kg DRY	271. ug/kg	09/11/02 03:39PM EB
4-NITROANILINE	EPA Method 8270	ND ug/kg DRY	2160 ug/kg	09/11/02 03:39PM EB
1,2 DIPHENYLHYDRAZINE	EPA Method 8270	ND ug/kg DRY	321. ug/kg	09/11/02 03:39PM EB
N NITROSODIPHENYLAMINE	EPA Method 8270	ND ug/kg DRY	312. ug/kg	09/11/02 03:39PM EB
4-BROMOPHENYL PHENYL ETHER	EPA Method 8270	ND ug/kg DRY	332. ug/kg	09/11/02 03:39PM EB
HEXACHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	590. ug/kg	09/11/02 03:39PM EB
PHENANTHRENE	EPA Method 8270	1260 ug/kg DRY	537. ug/kg	09/11/02 03:39PM EB
ANTHRACENE	EPA Method 8270	493. J ug/kg DRY	331. ug/kg	09/11/02 03:39PM EB
CARBAZOLE	EPA Method 8270	490. J ug/kg DRY	1200 ug/kg	09/11/02 03:39PM EB
DI-N-BUTYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	316. ug/kg	09/11/02 03:39PM EB
FLUORANTHENE	EPA Method 8270	1600 J ug/kg DRY	511. ug/kg	09/11/02 03:39PM EB
BENZIDINE	EPA Method 8270	ND ug/kg DRY	2500 ug/kg	09/11/02 03:39PM EB
PYRENE	EPA Method 8270	1510 J ug/kg DRY	325. ug/kg	09/11/02 03:39PM EB
BUTYL BENZYL PHTHALATE	EPA Method 8270	ND ug/kg DRY	435. ug/kg	09/11/02 03:39PM EB
3,3'-DICHLOROBENZIDINE	EPA Method 8270	ND ug/kg DRY	1100 ug/kg	09/11/02 03:39PM EB
BENZO(A)ANTHRACENE	EPA Method 8270	791. J ug/kg DRY	592. ug/kg	09/11/02 03:39PM EB
CHRYSENE	EPA Method 8270	781. J ug/kg DRY	276. ug/kg	09/11/02 03:39PM A EB
BIS(2-ETHYLHEXYL) PHTHALATE	EPA Method 8270	1700 ug/kg DRY	259. ug/kg	09/11/02 03:39PM A EB
DI-N-OCTYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	626. ug/kg	09/11/02 03:39PM A EB
BENZO(B)FLUORANTHENE	EPA Method 8270	605. J ug/kg DRY	371. ug/kg	09/11/02 03:39PM A EB
BENZO(K)FLUORANTHENE	EPA Method 8270	640. J ug/kg DRY	355. ug/kg	09/11/02 03:39PM A EB
BENZO(A)PYRENE	EPA Method 8270	716. J ug/kg DRY	324. ug/kg	09/11/02 03:39PM A EB
INDENO(1,2,3-CD)PYRENE	EPA Method 8270	291. J ug/kg DRY	186. ug/kg	09/11/02 03:39PM A EB
DIBENZ(A,H)ANTHRACENE	EPA Method 8270	ND ug/kg DRY	137. ug/kg	09/11/02 03:39PM A EB
BENZO(G,H,I)PERYLENE	EPA Method 8270	304. J ug/kg DRY	100. ug/kg	09/11/02 03:39PM A EB
HEXADECANOIC ACID	EPA 8270 Library Search	15800 JN ug/kg DRY		09/11/02 03:39PM A EB
OCTADECANOIC ACID	EPA 8270 Library Search	3730 JN ug/kg DRY		09/11/02 03:39PM A EB
SUBSTITUTED PAH	EPA 8270 Library Search	1490 J ug/kg DRY		09/11/02 03:39PM A EB
UNKNOWN ALKANE-1	EPA 8270 Library Search	2190 J ug/kg DRY		09/11/02 03:39PM A EB
UNKNOWN ALKANE-2	EPA 8270 Library Search	2880 J ug/kg DRY		09/11/02 03:39PM A EB
UNKNOWN ALKANE-3	EPA 8270 Library Search	4090 J ug/kg DRY		09/11/02 03:39PM A EB

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory acc.den
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test*pH lab*is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the regulr holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA166. NON-NELAC labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005;PA 68-530.
All samples are collected as "grab" samples unless otherwise identified.

  Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA
Project No: 800195, WHITESTONE ASSOCIATES PA

P.O. No: WP02-5444
PWSID No:

Inv. No:

Sample Number: 1941116-2
Sample Description: 5444-B4
Samp. Date/Time/Temp: 09/05/02 12:00pm NA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
UNKNOWN ALKANE-4	EPA 8270 Library Search	3440 J ug/kg DRY		09/12/02 03:39PM EB
UNKNOWN ALKANE-5	EPA 8270 Library Search	4530 J ug/kg DRY		09/12/02 03:39PM EB
UNKNOWN ALKANE-6	EPA 8270 Library Search	4390 J ug/kg DRY		09/12/02 03:39PM EB
UNKNOWN ALKANE-7	EPA 8270 Library Search	4380 J ug/kg DRY		09/12/02 03:39PM EB
UNKNOWN ALKANE-8	EPA 8270 Library Search	3400 J ug/kg DRY		09/12/02 03:39PM EB
UNKNOWN ALKANE-9	EPA 8270 Library Search	2450 J ug/kg DRY		09/12/02 03:39PM EB
UNKNOWN	EPA 8270 Library Search	1770 J ug/kg DRY		09/12/02 03:39PM EB
UNKNOWN ALKANE-10	EPA 8270 Library Search	1330 J ug/kg DRY		09/12/02 03:39PM EB
CHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	3.97 ug/kg	09/09/02 10:09PM N EP
VINYL CHLORIDE	EPA Method 8260	ND ug/kg DRY	3.97 ug/kg	09/09/02 10:09PM N EP
BROMOMETHANE	EPA Method 8260	ND ug/kg DRY	13.2 ug/kg	09/09/02 10:09PM N EP
CHLOROETHANE	EPA Method 8260	ND ug/kg DRY	3.97 ug/kg	09/09/02 10:09PM N EP
1,1-DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	3.65 ug/kg	09/09/02 10:09PM N EP
ACETONE	EPA Method 8260	ND ug/kg DRY	19.5 ug/kg	09/09/02 10:09PM N EP
CARBON DISULFIDE	EPA Method 8260	3.90 J ug/kg DRY	3.31 ug/kg	09/09/02 10:09PM N EP
METHYLENE CHLORIDE	EPA Method 8260	57.0 ug/kg DRY	3.97 ug/kg	09/09/02 10:09PM N EP
TRANS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	1.96 ug/kg	09/09/02 10:09PM N EP
ACROLEIN	EPA Method 8260	ND ug/kg DRY	19.5 ug/kg	09/09/02 10:09PM N EP
ACRYLONITRILE	EPA Method 8260	ND ug/kg DRY	13.2 ug/kg	09/09/02 10:09PM N EP
1,1-DICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	3.29 ug/kg	09/09/02 10:09PM N EP
VINYL ACETATE	EPA Method 8260	ND ug/kg DRY	13.2 ug/kg	09/09/02 10:09PM N EP
CIS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	3.31 ug/kg	09/09/02 10:09PM N EP
2-BUTANONE	EPA Method 8260	ND ug/kg DRY	13.2 ug/kg	09/09/02 10:09PM N EP
CHLOROFORM	EPA Method 8260	ND ug/kg DRY	3.29 ug/kg	09/09/02 10:09PM N EP
1,1,1-TRICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	1.95 ug/kg	09/09/02 10:09PM N EP
CARBON TETRACHLORIDE	EPA Method 8260	ND ug/kg DRY	3.65 ug/kg	09/09/02 10:09PM N EP
BENZENE	EPA Method 8260	ND ug/kg DRY	3.25 ug/kg	09/09/02 10:09PM N EP
1,2-DICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	1.95 ug/kg	09/09/02 10:09PM N EP
TRICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	1.95 ug/kg	09/09/02 10:09PM N EP
1,2-DICHLOROPROPANE	EPA Method 8260	ND ug/kg DRY	1.96 ug/kg	09/09/02 10:09PM N EP
BROMODICHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	3.97 ug/kg	09/09/02 10:09PM N EP
2-CHLOROETHYL VINYL ETHER	EPA Method 8260	ND ug/kg DRY	1.96 ug/kg	09/09/02 10:09PM N EP
CIS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/kg DRY	1.96 ug/kg	09/09/02 10:09PM N EP
4-METHYL-2-PENTANONE	EPA Method 8260	ND ug/kg DRY	13.2 ug/kg	09/09/02 10:09PM N EP
TOLUENE	EPA Method 8260	ND ug/kg DRY	1.93 ug/kg	09/09/02 10:09PM N EP
TRANS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:09PM N EP
1,1,2-TRICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:09PM N EP

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the regulatory holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PA068 09-131,NJDEP PA356. NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 05005;PA 68-330.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA — P.O. No: P03-5444 — Inv. No:
Project No: 800195, WHITESTONE ASSOCIATES PA — PWSID No:

Sample Number: L941115-3 — Sample Description: 5444-B4 — Samp. Date/Time/Temp: 09/05/02 11:30pm NA°F — Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
TETRACHLOROETHENE	EPA Method 8260	ND ug/kg DRY	2.65 ug/kg	C9/09/02 10:09PM JEP
2-HEXANONE	EPA Method 8260	ND ug/kg DRY	13.2 ug/kg	C9/09/02 10:09PM JEP
DIBROMOCHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	1.99 ug/kg	C9/09/02 10:09PM JEP
CHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	1.99 ug/kg	C9/09/02 10:09PM JEP
ETHYL BENZENE	EPA Method 8260	ND ug/kg DRY	1.99 ug/kg	C9/09/02 10:09PM JEP
M&P-XYLENES	EPA Method 8260	ND ug/kg DRY	3.31 ug/kg	C9/09/02 10:09PM JEP
O-XYLENE	EPA Method 8260	ND ug/kg DRY	1.99 ug/kg	C9/09/02 10:09PM JEP
STYRENE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	C9/09/02 10:09PM JEP
BROMOFORM	EPA Method 8260	ND ug/kg DRY	3.97 ug/kg	C9/09/02 10:09PM JEP
1,1,2,2 TETRACHLOROETHANE	EPA Method 8260	ND ug/kg DRY	2.65 ug/kg	C9/09/02 10:09PM JEP
1,3-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	1.99 ug/kg	C9/09/02 10:09PM JEP
1,4-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	C9/09/02 10:09PM JEP
1,2-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	C9/09/02 10:09PM JEP
UNKNOWN ALKANE-1	EPA 8260 Library Search	10.5 J ug/kg DRY		C9/09/02 10:09PM JEP
UNKNOWN ALKANE-2	EPA 8260 Library Search	10.4 J ug/kg DRY		C9/09/02 10:09PM JEP
UNKNOWN CYCLOALKANE-1	EPA 8260 Library Search	15.4 J ug/kg DRY		C9/09/02 10:09PM JEP
UNKNOWN ALKANE-3	EPA 8260 Library Search	26.5 J ug/kg DRY		C9/09/02 10:09PM JEP
UNKNOWN ALKANE-4	EPA 8260 Library Search	10.2 J ug/kg DRY		C9/09/02 10:09PM JEP
UNKNOWN CYCLOALKANE-2	EPA 8260 Library Search	32.6 J ug/kg DRY		C9/09/02 10:09PM JEP
UNKNOWN CYCLOALKANE-3	EPA 8260 Library Search	13.9 J ug/kg DRY		C9/09/02 10:09PM JEP
UNKNOWN CYCLOALKANE-4	EPA 8260 Library Search	13.1 J ug/kg DRY		C9/09/02 10:09PM JEP
DECAHYDRONAPHTHALENE ISOMER	EPA 8260 Library Search	10.2 J ug/kg DRY		C9/09/02 10:09PM JEP
DECAHYDROMETHYLNAPHTHALENE ISOMER	EPA 8260 Library Search	11.3 J ug/kg DRY		C9/09/02 10:09PM JEP
TOTAL SOLIDS PERCENT	STD Methods 18th Ed. 2540G	75.56 %	0.(1000 %	C9/09/02 04:20PM JI

Sample Number: L941115-3 — Sample Description: 5444-B7 — Samp. Date/Time/Temp: 09/05/02 11:00pm NA°F — Sampled by: Customer Sampled
Received Temp: 37°F Iced (Y/N): Y

Parameter	Method	Result	RLs	Test Date, Time, Analy
SILVER	SW846 Method 6010	ND mg/kg DRY	1.06 mg/kg	C9/11/02 10:56AM JLB
ARSENIC	SW846 Method 6010	6.62 mg/kg DRY	1.06 mg/kg	C9/11/02 10:56AM JLB
BERYLLIUM	SW846 Method 6010	0.353 mg/kg DRY	J 0.217 mg/kg	C9/11/02 10:56AM JLB
CADMIUM	SW846 Method 6010	ND mg/kg DRY	0.434 mg/kg	C9/11/02 10:56AM JLB
CHROMIUM	SW846 Method 6010	14.0 mg/kg DRY	1.06 mg/kg	C9/11/02 10:56AM JLB
COPPER	SW846 Method 6010	25.7 mg/kg DRY	1.06 mg/kg	C9/11/02 10:56AM JLB

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/R=Laboratory accilen
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
This test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requir
holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA166. NON-NELAP labs: Wind Gap-NJ PA001,
Alltest-NJ 02015, Vineland-NJ 05DC5,PA 66-530.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1305 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3170 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA
Project No: 800195, WHITESTONE ASSOCIATES PA

Q.S. No: W102-5444
PWSID No:

Inv. No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
2941115-3	5444-B7	09/05/02 03:00pm NA°F	Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
NICKEL	SW846 Method 6010	11.5 mg/kg DRY	1.08 mg/kg	09/11/02 10:56AM JAB
LEAD	SW846 Method 6010	95.4 mg/kg DRY	1.17 mg/kg	09/11/02 10:56AM JAB
ANTIMONY	SW846 Method 6010	ND mg/kg DRY	1.17 mg/kg	09/11/02 10:56AM JAB
SELENIUM	SW846 Method 6010	ND mg/kg DRY	1.17 mg/kg	09/11/02 10:56AM JAB
THALLIUM	SW846 Method 6010	ND mg/kg DRY	1.08 mg/kg	09/11/02 10:56AM JAB
ZINC	SW846 Method 6010	134. mg/kg DRY	1.08 mg/kg	09/11/02 10:56AM JAB
MERCURY	SW846 Method 7471	ND mg/kg DRY	0.106 mg/kg	09/11/02 01:43PM JAD
N-NITROSODIMETHYLAMINE	EPA Method 8270	ND ug/kg DRY	327. ug/kg	09/11/02 04:23PM AJB
BIS(2-CHLOROETHYL) ETHER	EPA Method 8270	ND ug/kg DRY	360. ug/kg	09/11/02 04:23PM AJB
1,3-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	331. ug/kg	09/11/02 04:23PM AJB
1,4-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	330. ug/kg	09/11/02 04:23PM AJB
BENZYL ALCOHOL	EPA Method 8270	ND ug/kg DRY	1350 ug/kg	09/11/02 04:23PM AJB
1,2-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	315. ug/kg	09/11/02 04:23PM AJB
BIS(2-CHLOROISOPROPYL) ETHER	EPA Method 8270	ND ug/kg DRY	377. ug/kg	09/11/02 04:23PM AJB
N-NITROSO-DI-N-PROPYLAMINE	EPA Method 8270	ND ug/kg DRY	1270 ug/kg	09/11/02 04:23PM AJB
HEXACHLOROETHANE	EPA Method 8270	ND ug/kg DRY	367. ug/kg	09/11/02 04:23PM AJB
NITROBENZENE	EPA Method 8270	ND ug/kg DRY	35. ug/kg	09/11/02 04:23PM AJB
ISOPHORONE	EPA Method 8270	ND ug/kg DRY	332. ug/kg	09/11/02 04:23PM AJB
BENZOIC ACID	EPA Method 8270	ND ug/kg DRY	1890 ug/kg	09/11/02 04:23PM AJB
BIS(2-CHLOROETHOXY)METHANE	EPA Method 8270	ND ug/kg DRY	355. ug/kg	09/11/02 04:23PM AJB
1,2,4-TRICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	350. ug/kg	09/11/02 04:23PM AJB
NAPHTHALENE	EPA Method 8270	ND ug/kg DRY	337. ug/kg	09/11/02 04:23PM AJB
4-CHLOROANILINE	EPA Method 8270	ND ug/kg DRY	1160 ug/kg	09/11/02 04:23PM AJB
HEXACHLOROBUTADIENE	EPA Method 8270	ND ug/kg DRY	419. ug/kg	09/11/02 04:23PM AJB
2-METHYLNAPHTHALENE	EPA Method 8270	ND ug/kg DRY	1120 ug/kg	09/11/02 04:23PM AJB
HEXACHLOROCYCLOPENTADIENE	EPA Method 8270	ND ug/kg DRY	1160 ug/kg	09/11/02 04:23PM AJB
2-CHLORONAPHTHALENE	EPA Method 8270	ND ug/kg DRY	415. ug/kg	09/11/02 04:23PM AJB
2-NITROANILINE	EPA Method 8270	ND ug/kg DRY	1170 ug/kg	09/11/02 04:23PM AJB
DIMETHYL PHTHALATE	EPA Method 8270	ND ug/kg DRY	417. ug/kg	09/11/02 04:23PM AJB
ACENAPHTHYLENE	EPA Method 8270	ND ug/kg DRY	410. ug/kg	09/11/02 04:23PM AJB
2,6-DINITROTOLUENE	EPA Method 8270	ND ug/kg DRY	417. ug/kg	09/11/02 04:23PM AJB
3-NITROANILINE	EPA Method 8270	ND ug/kg DRY	1100 ug/kg	09/11/02 04:23PM AJB
ACENAPHTHENE	EPA Method 8270	ND ug/kg DRY	411. ug/kg	09/11/02 04:23PM AJB
DIBENZOFURAN	EPA Method 8270	ND ug/kg DRY	1150 ug/kg	09/11/02 04:23PM AJB
2,4-DINITROTOLUENE	EPA Method 8270	ND ug/kg DRY	417. ug/kg	09/11/02 04:23PM AJB
DIETHYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	418. ug/kg	09/11/02 04:23PM AJB
4-CHLOROPHENYL PHENYL ETHER	EPA Method 8270	ND ug/kg DRY	416. ug/kg	09/11/02 04:23PM AJB

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident; TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test pH lab is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADEP 09-131, NJDEP PA166. NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005; PA 66-530.
All samples are collected as "grab" samples unless otherwise identified.

 Unserialized Copy

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA
Project No: 800195, WHITESTONE ASSOCIATES PA

P.O. No: TCG-5444 Inv. No:
PWSID No:

Sample Number: L941215-3
Sample Description: 5444-B7
Samp. Date/Time/Temp: 09/05/02 [illegible]:00pm NA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
FLUORENE	EPA Method 8270	ND ug/kg DRY	444. ug/kg	09/11/02 04:23PM AEB
4-NITROANILINE	EPA Method 8270	ND ug/kg DRY	3540 ug/kg	09/11/02 04:23PM AEB
1,2-DIPHENYLHYDRAZINE	EPA Method 8270	ND ug/kg DRY	526. ug/kg	09/11/02 04:23PM AEB
N-NITROSODIPHENYLAMINE	EPA Method 8270	ND ug/kg DRY	511. ug/kg	09/11/02 04:23PM AEB
4-BROMOPHENYL PHENYL ETHER	EPA Method 8270	ND ug/kg DRY	479. ug/kg	09/11/02 04:23PM AEB
HEXACHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	965. ug/kg	09/11/02 04:23PM AEB
PHENANTHRENE	EPA Method 8270	1770 J ug/kg DRY	879. ug/kg	09/11/02 04:23PM AEB
ANTHRACENE	EPA Method 8270	ND ug/kg DRY	943. ug/kg	09/11/02 04:23PM AEB
CARBAZOLE	EPA Method 8270	ND ug/kg DRY	2100 ug/kg	09/11/02 04:23PM AEB
DI-N-BUTYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	510. ug/kg	09/11/02 04:23PM AEB
FLUORANTHENE	EPA Method 8270	2090 J ug/kg DRY	837. ug/kg	09/11/02 04:23PM AEB
BENZIDINE	EPA Method 8270	ND ug/kg DRY	1050C ug/kg	09/11/02 04:23PM AEB
PYRENE	EPA Method 8270	1990 J ug/kg DRY	533. ug/kg	09/11/02 04:23PM AEB
BUTYL BENZYL PHTHALATE	EPA Method 8270	ND ug/kg DRY	663. ug/kg	09/11/02 04:23PM AEB
3,3'-DICHLOROBENZIDINE	EPA Method 8270	ND ug/kg DRY	1900C ug/kg	09/11/02 04:23PM AEB
BENZO(A)ANTHRACENE	EPA Method 8270	973. J ug/kg DRY	970. ug/kg	09/11/02 04:23PM AEB
CHRYSENE	EPA Method 8270	1070 J ug/kg DRY	456. ug/kg	09/11/02 04:23PM AEB
BIS(2-ETHYLHEXYL)PHTHALATE	EPA Method 8270	585 J ug/kg DRY	424. ug/kg	09/11/02 04:23PM AEB
DI-N-OCTYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	890. ug/kg	09/11/02 04:23PM AEB
BENZO(B)FLUORANTHENE	EPA Method 8270	732. J ug/kg DRY	607. ug/kg	09/11/02 04:23PM AEB
BENZO(K)FLUORANTHENE	EPA Method 8270	802. J ug/kg DRY	582. ug/kg	09/11/02 04:23PM AEB
BENZO(A)PYRENE	EPA Method 8270	775. J ug/kg DRY	875. ug/kg	09/11/02 04:23PM AEB
INDENO(1,2,3-CD)PYRENE	EPA Method 8270	ND ug/kg DRY	459. ug/kg	09/11/02 04:23PM AEB
DIBENZ(A,H)ANTHRACENE	EPA Method 8270	ND ug/kg DRY	471. ug/kg	09/11/02 04:23PM AEB
BENZO(G,H,I)PERYLENE	EPA Method 8270	ND ug/kg DRY	492. ug/kg	09/11/02 04:23PM AEB
TOLUENE	EPA 8270 Library Search	2430 JN ug/kg DRY		09/11/02 04:23PM AEB
HEXADECANOIC ACID	EPA 8270 Library Search	4590 JN ug/kg DRY		09/11/02 04:23PM AEB
UNKNOWN-1	EPA 8270 Library Search	5600 J ug/kg DRY		09/11/02 04:23PM AEB
UNKNOWN ALKANE-1	EPA 8270 Library Search	2570 J ug/kg DRY		09/11/02 04:23PM AEB
UNKNOWN-2	EPA 8270 Library Search	2380 J ug/kg DRY		09/11/02 04:23PM AEB
UNKNOWN ALKANE-2	EPA 8270 Library Search	4890 J ug/kg DRY		09/11/02 04:23PM AEB
UNKNOWN ALKANE-3	EPA 8270 Library Search	3310 J ug/kg DRY		09/11/02 04:23PM AEB
UNKNOWN-3	EPA 8270 Library Search	3040 J ug/kg DRY		09/11/02 04:23PM AEB
CHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	371. ug/kg	09/10/02 03:27PM NJP
VINYL CHLORIDE	EPA Method 8260	ND ug/kg DRY	471. ug/kg	09/10/02 03:27PM NJP
BROMOMETHANE	EPA Method 8260	ND ug/kg DRY	1220 ug/kg	09/10/02 03:27PM NJP
CHLOROETHANE	EPA Method 8260	ND ug/kg DRY	637. ug/kg	09/10/02 03:27PM NJP

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; CDL=colonies; RL=laboratory reporting limits; L/R=laboratory accepden
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requir
holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA356. Non-NELAP labs: Wind Gap-NJ PA001,
Alltest-NJ 02015, Vineland-NJ 05015;PA 68-530.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen O. Schopbach

Allen O. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: B00195, WHITESTONE ASSOCIATES PA
Project No: B00195, WHITESTONE ASSOCIATES PA

P.O. No: WW02-5444 INV. No:
PWSID No:

Sample Number: L941115-1
Sample Description: 5444-B7
Samp. Date/Time/Temp: 09/05/02 03:10pm NA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
1,1-DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	437. ug/kg	09/10/02 03:27PM : EP
ACETONE	EPA Method 8260	ND ug/kg DRY	1360 ug/kg	09/10/02 03:27PM : EP
CARBON DISULFIDE	EPA Method 8260	ND ug/kg DRY	542. ug/kg	09/10/02 03:27PM : EP
METHYLENE CHLORIDE	EPA Method 8260	ND ug/kg DRY	813. ug/kg	09/10/02 03:27PM : EP
TRANS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	136. ug/kg	09/10/02 03:27PM : EP
ACROLEIN	EPA Method 8260	ND ug/kg DRY	2030 ug/kg	09/10/02 03:27PM : EP
ACRYLONITRILE	EPA Method 8260	ND ug/kg DRY	1220 ug/kg	09/10/02 03:27PM : EP
1,1-DICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	94.5 ug/kg	09/10/02 03:27PM : EP
VINYL ACETATE	EPA Method 8260	ND ug/kg DRY	1000 ug/kg	09/10/02 03:27PM : EP
CIS 1,2 DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	67.8 ug/kg	09/10/02 03:27PM : EP
2-BUTANONE	EPA Method 8260	ND ug/kg DRY	542. ug/kg	09/10/02 03:27PM : EP
CHLOROFORM	EPA Method 8260	ND ug/kg DRY	67.8 ug/kg	09/10/02 03:27PM : EP
1,1,1-TRICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	271. ug/kg	09/10/02 03:27PM : EP
CARBON TETRACHLORIDE	EPA Method 8260	ND ug/kg DRY	271. ug/kg	09/10/02 03:27PM : EP
BENZENE	EPA Method 8260	103. J ug/kg DRY	67.8 ug/kg	09/10/02 03:27PM : EP
1,2-DICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	67.8 ug/kg	09/10/02 03:27PM : EP
TRICHLOROETHENE	EPA Method 8260	236. J ug/kg DRY	136. ug/kg	09/10/02 03:27PM : EP
1,2-DICHLOROPROPANE	EPA Method 8260	ND ug/kg DRY	136. ug/kg	09/10/02 03:27PM : EP
BROMODICHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	271. ug/kg	09/10/02 03:27PM : EP
2-CHLOROETHYL VINYL ETHER	EPA Method 8260	ND ug/kg DRY	1630 ug/kg	09/10/02 03:27PM : EP
CIS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/kg DRY	271. ug/kg	09/10/02 03:27PM : EP
4-METHYL-2-PENTANONE	EPA Method 8260	ND ug/kg DRY	542. ug/kg	09/10/02 03:27PM : EP
TOLUENE	EPA Method 8260	73300 ug/kg DRY	339. ug/kg	09/11/02 01:12PM : EP
TRANS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/kg DRY	271. ug/kg	09/10/02 03:27PM : EP
1,1,2-TRICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	67.8 ug/kg	09/10/02 03:27PM : EP
TETRACHLOROETHENE	EPA Method 8260	ND ug/kg DRY	271. ug/kg	09/10/02 03:27PM : EP
2 HEXANONE	EPA Method 8260	ND ug/kg DRY	270. ug/kg	09/10/02 03:27PM : EP
DIBROMOCHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	271. ug/kg	09/10/02 03:27PM : EP
CHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	54.2 ug/kg	09/10/02 03:27PM : EP
ETHYL BENZENE	EPA Method 8260	5360 ug/kg DRY	54.2 ug/kg	09/10/02 03:27PM : EP
M&P-XYLENES	EPA Method 8260	19900 ug/kg DRY	136. ug/kg	09/10/02 03:27PM : EP
O-XYLENE	EPA Method 8260	7360 ug/kg DRY	67.8 ug/kg	09/10/02 03:27PM : EP
STYRENE	EPA Method 8260	ND ug/kg DRY	271. ug/kg	09/10/02 03:27PM : EP
BROMOFORM	EPA Method 8260	ND ug/kg DRY	271. ug/kg	09/10/02 03:27PM : EP
1,1,2,2-TETRACHLOROETHANE	EPA Method 8260	ND ug/kg DRY	107. ug/kg	09/10/02 03:27PM : EP
1,3-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	67.8 ug/kg	09/10/02 03:27PM : EP
1,4-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	67.8 ug/kg	09/10/02 03:27PM : EP

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=Laboratory acclien
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analysed upon receipt at the laboratory. The result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requir
Holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA156. Non-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005;PA 68-580.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1305 Industrial Blvd., P.O. Box 518, Southampton, PA 18966-0518 Phone: 215-355-7900 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/03 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA — P.O. No: W303-5444 — Inv. No:
Project No: 800195, WHITESTONE ASSOCIATES PA — PWSID No:

Sample Number: L0411115-3 — Sample Description: 5444-B7 — Samp. Date/Time/Temp: 09/05/03 03:[illegible]pm NA°F — Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
1,2-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	11.9 ug/kg	09/10/03 03:27PM N IP
CYCLOHEXANE, METHYL-	EPA 8260 Library Search	12700 NJ ug/kg DRY		09/10/03 03:27PM N IP
ETHYLMETHYLBENZENE ISOMER-1	EPA 8260 Library Search	10400 J ug/kg DRY		09/10/03 03:27PM N IP
1,3,5-TRIMETHYLBENZENE	EPA 8260 Library Search	4740 NJ ug/kg DRY		09/10/03 03:27PM N IP
ETHYLMETHYLBENZENE ISOMER-2	EPA 8260 Library Search	4140 J ug/kg DRY		09/10/03 03:27PM N IP
1,2,4-TRIMETHYLBENZENE	EPA 8260 Library Search	16800 NJ ug/kg DRY		09/10/03 03:27PM N IP
UNKNOWN AROMATIC-1	EPA 8260 Library Search	4350 J ug/kg DRY		09/10/03 03:27PM N IP
1-METHYL-(1-METHYLETHYL)BENZEN ISOMER 1	EPA 8260 Library Search	5620 J ug/kg DRY		09/10/03 03:27PM N IP
1 METHYL (1 METHYLETHYL)BENZEN ISOMER-3	EPA 8260 Library Search	4080 J ug/kg DRY		09/10/03 03:27PM N IP
UNKNOWN AROMATIC-2	EPA 8260 Library Search	4340 J ug/kg DRY		09/10/03 03:27PM N IP
NAPHTHALENE	EPA 8260 Library Search	41400 NJ ug/kg DRY		09/10/03 03:27PM N IP
TOTAL SOLIDS PERCENT	STD Methods 18th Ed. 2540G	92.24 %	0.[illegible]00C %	09/09/03 04:20PM JA

Sample Number: L0411115-4 — Sample Description: 5444-B9 — Samp. Date/Time/Temp: 09/05/03 03:[illegible]pm NA°F — Sampled by: Customer Sampled
Received Temp: 37°F Iced (Y/N)?: Y

Parameter	Method	Result	RLs	Test Date, Time, Analy
SILVER	SW846 Method 6010	ND mg/kg DRY	[illegible].13 mg/kg	09/[illegible]/03 10:56AM JA B
ARSENIC	SW846 Method 6010	15.9 mg/kg DRY	[illegible].13 mg/kg	09/11/03 10:56AM JA B
BERYLLIUM	SW846 Method 6010	0.489 mg/kg DRY	[illegible].226 mg/kg	09/11/03 10:56AM JA B
CADMIUM	SW846 Method 6010	3.32 mg/kg DRY	[illegible].452 mg/kg	09/11/03 10:56AM JA B
CHROMIUM	SW846 Method 6010	15.9 mg/kg DRY	[illegible].13 mg/kg	09/11/03 10:56AM JA B
COPPER	SW846 Method 6010	26.5 mg/kg DRY	[illegible].13 mg/kg	09/11/03 10:56AM JA B
NICKEL	SW846 Method 6010	23.3 mg/kg DRY	[illegible].13 mg/kg	09/11/03 10:56AM JA B
LEAD	SW846 Method 6010	352. mg/kg DRY	[illegible].26 mg/kg	09/11/03 10:56AM JA B
ANTIMONY	SW846 Method 6010	ND mg/kg DRY	[illegible].26 mg/kg	09/11/03 10:56AM JA B
SELENIUM	SW846 Method 6010	ND mg/kg DRY	[illegible].26 mg/kg	09/11/03 10:56AM JA B
THALLIUM	SW846 Method 6010	ND mg/kg DRY	[illegible].13 mg/kg	09/11/03 10:56AM JA B
ZINC	SW846 Method 6010	22700 mg/kg DRY	[illegible]1.3 mg/kg	09/11/03 10:56AM JA B
MERCURY	SW846 Method 7471	0.999 mg/kg DRY	0.[illegible]13 mg/kg	09/11/03 01:43PM JA B
N-NITROSODIMETHYLAMINE	EPA Method 8270	ND ug/kg DRY	1[illegible]00C ug/kg	09/11/03 05:07PM AE B
BIS(2-CHLOROETHYL) ETHER	EPA Method 8270	ND ug/kg DRY	1[illegible]00C ug/kg	09/11/03 05:07PM AE B
1,3-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	1[illegible]00C ug/kg	09/11/03 05:07PM AE B
1,4-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	1[illegible]00C ug/kg	09/11/03 05:07PM AE B

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory acnilen
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH Lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported 48H hrs are available upon request. All testing is completed within the requir holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA456, NYN-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06905;PA 68-530.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3300 Fax 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA
Project No: 800195, WHITESTONE ASSOCIATES PA

P.O. No: 'P02-5444
PWSID No:

Inv. No:

Sample Number: L941115-4
Sample Description: 5464-MS
Samp. Date, Time/Temp: 09/05/02 3: 15pm NA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
BENZYL ALCOHOL	EPA Method 8270	ND ug/kg DRY	1850C ug/kg	09/11/02 05:07PM AEB
1,2-DICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	4300 ug/kg	09/11/02 05:07PM AEB
BIS(2-CHLOROISOPROPYL) ETHER	EPA Method 8270	ND ug/kg DRY	1200C ug/kg	09/11/02 05:07PM AEB
N-NITROSO-DI-N-PROPYLAMINE	EPA Method 8270	ND ug/kg DRY	1640C ug/kg	09/11/02 05:07PM AEB
HEXACHLOROETHANE	EPA Method 8270	ND ug/kg DRY	1010C ug/kg	09/11/02 05:07PM AEB
NITROBENZENE	EPA Method 8270	ND ug/kg DRY	1240C ug/kg	09/11/02 05:07PM AEB
ISOPHORONE	EPA Method 8270	ND ug/kg DRY	1110C ug/kg	09/11/02 05:07PM AEB
BENZOIC ACID	EPA Method 8270	ND ug/kg DRY	11300C ug/kg	09/11/02 05:07PM AEB
BIS(2-CHLOROETHOXY)METHANE	EPA Method 8270	ND ug/kg DRY	1150C ug/kg	09/11/02 05:07PM AEB
1,2,4-TRICHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	1170C ug/kg	09/11/02 05:07PM AEB
NAPHTHALENE	EPA Method 8270	33400 J ug/kg DRY	1130C ug/kg	09/11/02 05:07PM AEB
4-CHLOROANILINE	EPA Method 8270	ND ug/kg DRY	1540C ug/kg	09/11/02 05:07PM AEB
HEXACHLOROBUTADIENE	EPA Method 8270	ND ug/kg DRY	1390C ug/kg	09/11/02 05:07PM AEB
2-METHYLNAPHTHALENE	EPA Method 8270	19500 J ug/kg DRY	1030C ug/kg	09/11/02 05:07PM AEB
HEXACHLOROCYCLOPENTADIENE	EPA Method 8270	ND ug/kg DRY	1940C ug/kg	09/11/02 05:07PM AEB
2-CHLORONAPHTHALENE	EPA Method 8270	ND ug/kg DRY	1550C ug/kg	09/11/02 05:07PM AEB
2-NITROANILINE	EPA Method 8270	ND ug/kg DRY	1390C ug/kg	09/11/02 05:07PM AEB
DIMETHYL PHTHALATE	EPA Method 8270	ND ug/kg DRY	1310C ug/kg	09/11/02 05:07PM AEB
ACENAPHTHYLENE	EPA Method 8270	ND ug/kg DRY	1530C ug/kg	09/11/02 05:07PM AEB
2,6-DINITROTOLUENE	EPA Method 8270	ND ug/kg DRY	1310C ug/kg	09/11/02 05:07PM AEB
3-NITROANILINE	EPA Method 8270	ND ug/kg DRY	41800C ug/kg	09/11/02 05:07PM AEB
ACENAPHTHENE	EPA Method 8270	ND ug/kg DRY	1050C ug/kg	09/11/02 05:07PM AEB
DIBENZOFURAN	EPA Method 8270	ND ug/kg DRY	34500C ug/kg	09/11/02 05:07PM AEB
2,4-DINITROTOLUENE	EPA Method 8270	ND ug/kg DRY	11300C ug/kg	09/11/02 05:07PM AEB
DIETHYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	1750C ug/kg	09/11/02 05:07PM AEB
4-CHLOROPHENYL PHENYL ETHER	EPA Method 8270	ND ug/kg DRY	1700C ug/kg	09/11/02 05:07PM AEB
FLUORENE	EPA Method 8270	ND ug/kg DRY	1240C ug/kg	09/11/02 05:07PM AEB
4-NITROANILINE	EPA Method 8270	ND ug/kg DRY	1980C ug/kg	09/11/02 05:07PM AEB
1,2-DIPHENYLHYDRAZINE	EPA Method 8270	ND ug/kg DRY	1300C ug/kg	09/11/02 05:07PM AEB
N-NITROSODIPHENYLAMINE	EPA Method 8270	ND ug/kg DRY	1500C ug/kg	09/11/02 05:07PM AEB
4-BROMOPHENYL PHENYL ETHER	EPA Method 8270	ND ug/kg DRY	797C ug/kg	09/11/02 05:07PM AEB
HEXACHLOROBENZENE	EPA Method 8270	ND ug/kg DRY	10100C ug/kg	09/11/02 05:07PM AEB
PHENANTHRENE	EPA Method 8270	ND ug/kg DRY	13300C ug/kg	09/11/02 05:07PM AEB
ANTHRACENE	EPA Method 8270	ND ug/kg DRY	13300C ug/kg	09/11/02 05:07PM AEB
CARBAZOLE	EPA Method 8270	ND ug/kg DRY	1980C ug/kg	09/11/02 05:07PM AEB
DI-N-BUTYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	11300C ug/kg	09/11/02 05:07PM AEB
FLUORANTHENE	EPA Method 8270	ND ug/kg DRY	11400C ug/kg	09/11/02 05:07PM AEB

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; CFU=colonies; RLs=laboratory reporting limits; L/A=Laboratory accilen
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the req ir
holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA356. NON-NELAP labs: Wind Gap-NJ PA001,.
Alltest-NJ 02015, Vineland-NJ 09003;PA 68-590.
All samples are collected as "grab" samples unless otherwise identified.

Onserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax: 215-355-7231

Analytical Results

09/16/02 03:26pm

Account No: B00195, WHITESTONE ASSOCIATES PA
Project No: B00195, WHITESTONE ASSOCIATES PA

P.O. No: WHO2-5444 Inv. No:
PWSID No:

Sample Number: 2941115-4
Sample Description: 5444-SS
Samp. Date/Time/Temp: 09/05/02 01:15pm AMBT
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time,	Analy
BENZIDINE	EPA Method 8270	ND ug/kg DRY	1600C ug/kg	09/12/02 05:07PM	EB
PYRENE	EPA Method 8270	ND ug/kg DRY	1100 ug/kg	09/12/02 05:07PM	EB
BUTYL BENZYL PHTHALATE	EPA Method 8270	ND ug/kg DRY	380C ug/kg	09/12/02 05:07PM	EB
3,3'-DICHLOROBENZIDINE	EPA Method 8270	ND ug/kg DRY	1400C ug/kg	09/12/02 05:07PM	EB
BENZO(A)ANTHRACENE	EPA Method 8270	ND ug/kg DRY	1020C ug/kg	09/12/02 05:07PM	EB
CHRYSENE	EPA Method 8270	ND ug/kg DRY	949C ug/kg	09/12/02 05:07PM	EB
BIS(2-ETHYLHEXYL)PHTHALATE	EPA Method 8270	ND ug/kg DRY	892C ug/kg	09/12/02 05:07PM	EB
DI-N-OCTYLPHTHALATE	EPA Method 8270	ND ug/kg DRY	1450C ug/kg	09/12/02 05:07PM	EB
BENZO(B)FLUORANTHENE	EPA Method 8270	ND ug/kg DRY	1260C ug/kg	09/12/02 05:07PM	EB
BENZO(K)FLUORANTHENE	EPA Method 8270	ND ug/kg DRY	1210C ug/kg	09/12/02 05:07PM	EB
BENZO(A)PYRENE	EPA Method 8270	ND ug/kg DRY	1830C ug/kg	09/12/02 05:07PM	EB
INDENO(1,2,3-CD)PYRENE	EPA Method 8270	ND ug/kg DRY	2770 ug/kg	09/12/02 05:07PM	EB
DIBENZ(A,H)ANTHRACENE	EPA Method 8270	ND ug/kg DRY	930C ug/kg	09/12/02 05:07PM	EB
BENZO(G,H,I)PERYLENE	EPA Method 8270	ND ug/kg DRY	1320C ug/kg	09/12/02 05:07PM	EB
UNKNOWN ALKANE-1	EPA 8270 Library Search	525000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN ALKANE-2	EPA 8270 Library Search	261000 J ug/kg DRY		09/12/02 05:07PM	EB
DIMETHYLCYCLOHEXANE ISOMER	EPA 8270 Library Search	576000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN-1	EPA 8270 Library Search	751000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN ALKANE-3	EPA 8270 Library Search	192000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN ALKANE-4	EPA 8270 Library Search	167000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN ALKANE-5	EPA 8270 Library Search	230000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN-2	EPA 8270 Library Search	329000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN-3	EPA 8270 Library Search	211000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN ALKANE-6	EPA 8270 Library Search	234000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN AROMATIC-1	EPA 8270 Library Search	253000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN AROMATIC 2	EPA 8270 Library Search	1120000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN 4	EPA 8270 Library Search	207000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN AROMATIC-3	EPA 8270 Library Search	368000 J ug/kg DRY		09/12/02 05:07PM	EB
UNKNOWN-5	EPA 8270 Library Search	486000 J ug/kg DRY		09/12/02 05:07PM	EB
CHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	1.35 ug/kg	09/09/02 10:45PM	MP
VINYL CHLORIDE	EPA Method 8260	ND ug/kg DRY	1.47 ug/kg	09/09/02 10:45PM	MP
BROMOMETHANE	EPA Method 8260	ND ug/kg DRY	11.3 ug/kg	09/09/02 10:45PM	MP
CHLOROETHANE	EPA Method 8260	ND ug/kg DRY	7.38 ug/kg	09/09/02 10:45PM	MP
1,1-DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	1.26 ug/kg	09/09/02 10:45PM	MP
ACETONE	EPA Method 8260	76.5 ug/kg DRY	6.5 ug/kg	09/09/02 10:45PM	MP
CARBON DISULFIDE	EPA Method 8260	ND ug/kg DRY	1.82 ug/kg	09/09/02 10:45PM	MP
METHYLENE CHLORIDE	EPA Method 8260	ND ug/kg DRY	1.38 ug/kg	09/09/02 10:45PM	MP

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accident
TNTC-too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test pH labels analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the regulatory holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA166, Non-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005;PA 68-330.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3300 Fax 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA
Project No: 800195, WHITESTONE ASSOCIATES PA

P.O. No: 1702-5444 Inv. No:
PWSID No:

Sample Number: L941115-4
Sample Description: 5444-B9
Samp. Date/Time/Temp: 09/05/02 01:15pm NA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
TRANS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:45PM JEP
ACROLEIN	EPA Method 8260	ND ug/kg DRY	16.5 ug/kg	09/09/02 10:45PM JEP
ACRYLONITRILE	EPA Method 8260	ND ug/kg DRY	16.5 ug/kg	09/09/02 10:45PM JEP
1,1-DICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	4.52 ug/kg	09/09/02 10:45PM JEP
VINYL ACETATE	EPA Method 8260	ND ug/kg DRY	11.3 ug/kg	09/09/02 10:45PM JEP
CIS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	2.82 ug/kg	09/09/02 10:45PM JEP
2-BUTANONE	EPA Method 8260	11.3 ug/kg DRY	11.3 ug/kg	09/09/02 10:45PM JEP
CHLOROFORM	EPA Method 8260	ND ug/kg DRY	4.52 ug/kg	09/09/02 10:45PM JEP
1,1,1 TRICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:45PM JEP
CARBON TETRACHLORIDE	EPA Method 8260	ND ug/kg DRY	2.26 ug/kg	09/09/02 10:45PM JEP
BENZENE	EPA Method 8260	ND ug/kg DRY	4.52 ug/kg	09/09/02 10:45PM JEP
1,2-DICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:45PM JEP
TRICHLOROETHENE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:45PM JEP
1,2-DICHLOROPROPANE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:45PM JEP
BROMODICHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	3.39 ug/kg	09/09/02 10:45PM JEP
2-CHLOROETHYL VINYL ETHER	EPA Method 8260	ND ug/kg DRY	5.08 ug/kg	09/09/02 10:45PM JEP
CIS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/kg DRY	5.08 ug/kg	09/09/02 10:45PM JEP
4-METHYL-2-PENTANONE	EPA Method 8260	ND ug/kg DRY	11.3 ug/kg	09/09/02 10:45PM JEP
TOLUENE	EPA Method 8260	ND ug/kg DRY	8.47 ug/kg	09/09/02 10:45PM JEP
TRANS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/kg DRY	2.26 ug/kg	09/09/02 10:45PM JEP
1,1,2-TRICHLOROETHANE	EPA Method 8260	ND ug/kg DRY	2.26 ug/kg	09/09/02 10:45PM JEP
TETRACHLOROETHENE	EPA Method 8260	ND ug/kg DRY	2.26 ug/kg	09/09/02 10:45PM JEP
2-HEXANONE	EPA Method 8260	ND ug/kg DRY	11.3 ug/kg	09/09/02 10:45PM JEP
DIBROMOCHLOROMETHANE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:45PM JEP
CHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:45PM JEP
ETHYL BENZENE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:45PM JEP
M&P XYLENES	EPA Method 8260	1.22 J ug/kg DRY	2.82 ug/kg	09/09/02 10:45PM JEP
O-XYLENE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:45PM JEP
STYRENE	EPA Method 8260	ND ug/kg DRY	2.26 ug/kg	09/09/02 10:45PM JEP
BROMOFORM	EPA Method 8260	ND ug/kg DRY	3.39 ug/kg	09/09/02 10:45PM JEP
1,1,2,2-TETRACHLOROETHANE	EPA Method 8260	ND ug/kg DRY	2.26 ug/kg	09/09/02 10:45PM JEP
1,3-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	1.65 ug/kg	09/09/02 10:45PM JEP
1,4-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	2.26 ug/kg	09/09/02 10:45PM JEP
1,2-DICHLOROBENZENE	EPA Method 8260	ND ug/kg DRY	2.26 ug/kg	09/09/02 10:45PM JEP
UNKNOWN ALKANE-1	EPA 8260 Library Search	38.2 J ug/kg DRY		09/09/02 10:45PM JEP
UNKNOWN ALKANE-2	EPA 8260 Library Search	34.1 J ug/kg DRY		09/09/02 10:45PM JEP
UNKNOWN ALKANE-3	EPA 8260 Library Search	63.7 J ug/kg DRY		09/09/02 10:45PM JEP

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RL=laboratory reporting limits; L/A=laboratory accreditation
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analysed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 68-131,NJDEP PA156. NON-NELAP labs: Wind Gap-NJ PA001 Alltest-NJ 02015, Vineland-NC 06005;PA 68-530.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach, President

1305 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: B00195, WHITESTONE ASSOCIATES PA — P.O. No: WP02-5444 — Inv. No:
Project No: B00195, WHITESTONE ASSOCIATES PA — PWSID No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
L0941115-4	5444-B9	09/05/02 3:45pm NA°F	Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
UNKNOWN AROMATIC	EPA 8260 Library Search	25.6 J ug/kg DRY		09/09/02 10:45PM HEP
1-METHYL-(1-METHYLETHYL)BENZEN ISOMER-1	EPA 8260 Library Search	25.0 J ug/kg DRY		09/09/02 10:45PM HEP
1-METHYL-(1-METHYLETHYL)BENZEN ISOMER-2	EPA 8260 Library Search	23.1 J ug/kg DRY		09/09/02 10:45PM HEP
1-METHYL-(1-METHYLETHYL)BENZEN ISOMER-3	EPA 8260 Library Search	25.5 J ug/kg DRY		09/09/02 10:45PM HEP
TETRAMETHYLBENZENE ISOMER-1	EPA 8260 Library Search	31.0 J ug/kg DRY		09/09/02 10:45PM HEP
TETRAMETHYLBENZENE ISOMER 2	EPA 8260 Library Search	29.0 J ug/kg DRY		09/09/02 10:45PM HEP
ETHYLDIMETHYLBENZENE ISOMER	EPA 8260 Library Search	20.1 J ug/kg DRY		09/09/02 10:45PM HEP
TOTAL SOLIDS PERCENT	STD Methods 18th Ed. 2540G	88.59 %	0.0100 %	09/09/02 04:20PM JS

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
L0941115-5	5444-B1 GW	09/05/02 3:10pm NA°F	Customer Sampled
	Received Temp: 37°F Iced (Y/N): Y		

Parameter	Method	Result	RLs	Test Date, Time, Analy
N-NITROSODIMETHYLAMINE	EPA Method 8270	ND ug/l	6.20 ug/l	09/12/02 05:51PM AEB
BIS(2-CHLOROETHYL) ETHER	EPA Method 8270	ND ug/l	4.00 ug/l	09/12/02 05:51PM AEB
1,3-DICHLOROBENZENE	EPA Method 8270	ND ug/l	7.33 ug/l	09/12/02 05:51PM AEB
1,4-DICHLOROBENZENE	EPA Method 8270	ND ug/l	7.46 ug/l	09/12/02 05:51PM AEB
BENZYL ALCOHOL	EPA Method 8270	ND ug/l	14.2 ug/l	09/12/02 05:51PM AEB
1,2-DICHLOROBENZENE	EPA Method 8270	ND ug/l	7.17 ug/l	09/12/02 05:51PM AEB
BIS(2-CHLOROISOPROPYL) ETHER	EPA Method 8270	ND ug/l	5.66 ug/l	09/12/02 05:51PM AEB
N-NITROSO-DI-N-PROPYLAMINE	EPA Method 8270	ND ug/l	5.26 ug/l	09/12/02 05:51PM AEB
HEXACHLOROETHANE	EPA Method 8270	ND ug/l	5.77 ug/l	09/12/02 05:51PM AEB
NITROBENZENE	EPA Method 8270	ND ug/l	5.09 ug/l	09/12/02 05:51PM AEB
ISOPHORONE	EPA Method 8270	ND ug/l	5.02 ug/l	09/12/02 05:51PM AEB
BENZOIC ACID	EPA Method 8270	ND ug/l	87.2 ug/l	09/12/02 05:51PM AEB
1,2,4-TRICHLOROBENZENE	EPA Method 8270	ND ug/l	8.22 ug/l	09/12/02 05:51PM AEB
NAPHTHALENE	EPA Method 8270	93.3 ug/l	1.96 ug/l	09/12/02 05:51PM AEB
4-CHLOROANILINE	EPA Method 8270	ND ug/l	15.1 ug/l	09/12/02 05:51PM AEB
HEXACHLOROBUTADIENE	EPA Method 8270	ND ug/l	1.96 ug/l	09/12/02 05:51PM AEB
2-METHYLNAPHTHALENE	EPA Method 8270	23.3 J ug/l	7.8 ug/l	09/12/02 05:51PM AEB
HEXACHLOROCYCLOPENTADIENE	EPA Method 8270	ND ug/l	14.5 ug/l	09/12/02 05:51PM AEB
2-CHLORONAPHTHALENE	EPA Method 8270	ND ug/l	5.36 ug/l	09/12/02 05:51PM AEB
2-NITROANILINE	EPA Method 8270	ND ug/l	19.8 ug/l	09/12/02 05:51PM AEB

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory acceptance
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test pH labels analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA166. NON-NELAP labs: Mind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06003;PA 68-330.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: B00195, WHITESTONE ASSOCIATES PA
Project No: B00195, WHITESTONE ASSOCIATES PA

P.O. No: WD02-5444
PWSID No:

Inv. No:

Sample Number: L9411115-5
Sample Description: 5444-B1 GW

Samp. Date/Time/Temp: 09/05/02 01:00pm NA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Cate, Time, Analy
DIMETHYL PHTHALATE	EPA Method 8270	ND ug/l	14.6 ug/l	09/12/02 05:51PM AEB
ACENAPHTHYLENE	EPA Method 8270	6.91 J ug/l	5.23 ug/l	09/12/02 05:51PM AEB
2,6-DINITROTOLUENE	EPA Method 8270	ND ug/l	3.62 ug/l	09/12/02 05:51PM AEB
3-NITROANILINE	EPA Method 8270	ND ug/l	41.6 ug/l	09/12/02 05:51PM AEB
ACENAPHTHENE	EPA Method 8270	43.3 ug/l	5.77 ug/l	09/12/02 05:51PM AEB
DIBENZOFURAN	EPA Method 8270	ND ug/l	32.1 ug/l	09/12/02 05:51PM AEB
2,4-DINITROTOLUENE	EPA Method 8270	ND ug/l	11.6 ug/l	09/12/02 05:51PM AEB
DIETHYLPHTHALATE	EPA Method 8270	ND ug/l	6.16 ug/l	09/12/02 05:51PM AEB
4-CHLOROPHENYL PHENYL ETHER	EPA Method 8270	ND ug/l	5.14 ug/l	09/12/02 05:51PM AEB
FLUORENE	EPA Method 8270	23.6 ug/l	5.10 ug/l	09/12/02 05:51PM AEB
4-NITROANILINE	EPA Method 8270	ND ug/l	38.6 ug/l	09/12/02 05:51PM AEB
1,2-DIPHENYLHYDRAZINE	EPA Method 8270	ND ug/l	5.52 ug/l	09/12/02 05:51PM AEB
N-NITROSODIPHENYLAMINE	EPA Method 8270	ND ug/l	3.96 ug/l	09/12/02 05:51PM AEB
4-BROMOPHENYL PHENYL ETHER	EPA Method 8270	ND ug/l	5.10 ug/l	09/12/02 05:51PM AEB
HEXACHLOROBENZENE	EPA Method 8270	ND ug/l	4.38 ug/l	09/12/02 05:51PM AEB
PHENANTHRENE	EPA Method 8270	74.7 ug/l	3.71 ug/l	09/12/02 05:51PM AEB
ANTHRACENE	EPA Method 8270	17.1 J ug/l	4.17 ug/l	09/12/02 05:51PM AEB
CARBAZOLE	EPA Method 8270	ND ug/l	19.5 ug/l	09/12/02 05:51PM AEB
DI-N-BUTYLPHTHALATE	EPA Method 8270	ND ug/l	4.58 ug/l	09/12/02 05:51PM AEB
FLUORANTHENE	EPA Method 8270	39.9 ug/l	4.34 ug/l	09/12/02 05:51PM AEB
BENZIDINE	EPA Method 8270	ND ug/l	320. ug/l	09/12/02 05:51PM AEB
PYRENE	EPA Method 8270	44.2 ug/l	4.49 ug/l	09/12/02 05:51PM AEB
BUTYL BENZYL PHTHALATE	EPA Method 8270	ND ug/l	16.5 ug/l	09/12/02 05:51PM AEB
3,3'-DICHLOROBENZIDINE	EPA Method 8270	ND ug/l	153. ug/l	09/12/02 05:51PM AEB
BENZO(A)ANTHRACENE	EPA Method 8270	11.9 J ug/l	4.09 ug/l	09/12/02 05:51PM AEB
CHRYSENE	EPA Method 8270	11.1 J ug/l	3.71 ug/l	09/12/02 05:51PM AEB
BIS(2-ETHYLHEXYL)PHTHALATE	EPA Method 8270	8.35 J ug/l	19.5 ug/l	09/12/02 05:51PM AEB
DI-N-OCTYLPHTHALATE	EPA Method 8270	ND ug/l	4.36 ug/l	09/12/02 05:51PM AEB
BENZO(B)FLUORANTHENE	EPA Method 8270	5.46 J ug/l	3.62 ug/l	09/12/02 05:51PM AEB
BENZO(K)FLUORANTHENE	EPA Method 8270	6.74 J ug/l	3.15 ug/l	09/12/02 05:51PM AEB
BENZO(A)PYRENE	EPA Method 8270	10.2 J ug/l	3.47 ug/l	09/12/02 05:51PM AEB
INDENO(1,2,3-CD)PYRENE	EPA Method 8270	ND ug/l	3.30 ug/l	09/12/02 05:51PM AEB
DIBENZ(A,H)ANTHRACENE	EPA Method 8270	ND ug/l	4.64 ug/l	09/12/02 05:51PM AEB
BENZO(G,H,I)PERYLENE	EPA Method 8270	4.81 J ug/l	3.94 ug/l	09/12/02 05:51PM AEB
BIS(2-CHLOROETHOXY)METHANE	EPA Method 8270	ND ug/l	4.68 ug/l	09/12/02 05:51PM AEB
CHENOPH	EPA 8270 Library Search	67.3 J ug/l		09/12/02 05:51PM AEB
NAPHTHALENE, 1-METHYL-	EPA 8270 Library Search	77.5 JN ug/l		09/12/02 05:51PM AEB

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; CCL=colonies; RL=laboratory reporting limits; L/A=Laboratory accreden
TNTC-too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the regular holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA166, PEN-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 04005;PA 68-350.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen O. Schopbach

Allen O. Schopbach, President

1203 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3120 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:36pm

Account No: B00195, WHITESTONE ASSOCIATES PA
Project No: B00195, WHITESTONE ASSOCIATES PA

P.O. No: TPO2-5444
PWSID No:

Inv. No:

Sample Number: 0941215-5
Sample Description: 5444-81 GW
Samp. Date/Time/Temp: 09/05/02 04:30pm NA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
DIMETHYLNAPHTHALENE ISOMER	EPA 8270 Library Search	27.6 J ug/l		09/11/02 05:51PM KER
SUBSTITUTED PAH	EPA 8270 Library Search	25.3 J ug/l		09/11/02 05:51PM KER
CHLOROMETHANE	EPA Method 8260	ND ug/l	2.5C ug/l	09/13/02 10:31AM :LK
VINYL CHLORIDE	EPA Method 8260	ND ug/l	2.0C ug/l	09/13/02 10:31AM :LK
BROMOMETHANE	EPA Method 8260	ND ug/l	10.C ug/l	09/13/02 10:31AM :LK
CHLOROETHANE	EPA Method 8260	ND ug/l	10.C ug/l	09/13/02 10:31AM :LK
1,1-DICHLOROETHENE	EPA Method 8260	ND ug/l	2.0C ug/l	09/13/02 10:31AM :LK
ACETONE	EPA Method 8260	17.4 J ug/l	10.C ug/l	09/13/02 10:31AM :LK
CARBON DISULFIDE	EPA Method 8260	ND ug/l	10.C ug/l	09/13/02 10:31AM :LK
METHYLENE CHLORIDE	EPA Method 8260	ND ug/l	10.C ug/l	09/13/02 10:31AM :LK
TRANS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/l	2.0C ug/l	09/13/02 10:31AM :LK
ACROLEIN	EPA Method 8260	ND ug/l	20.C ug/l	09/13/02 10:31AM :LK
ACRYLONITRILE	EPA Method 8260	ND ug/l	15.C ug/l	09/13/02 10:31AM :LK
1,1-DICHLOROETHANE	EPA Method 8260	ND ug/l	2.0C ug/l	09/13/02 10:31AM :LK
METHYL TERTIARY BUTYL ETHER	EPA Method 8260	ND ug/l	2.0C ug/l	09/13/02 10:31AM :LK
VINYL ACETATE	EPA Method 8260	ND ug/l	10.C ug/l	09/13/02 10:31AM :LK
CIS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/l	2.0C ug/l	09/13/02 10:31AM :LK
2-BUTANONE	EPA Method 8260	ND ug/l	10.C ug/l	09/13/02 10:31AM :LK
CHLOROFORM	EPA Method 8260	ND ug/l	1.5C ug/l	09/13/02 10:31AM :LK
1,1,1-TRICHLOROETHANE	EPA Method 8260	ND ug/l	1.5C ug/l	09/13/02 10:31AM :LK
CARBON TETRACHLORIDE	EPA Method 8260	ND ug/l	1.0C ug/l	09/13/02 10:31AM :LK
BENZENE	EPA Method 8260	9.03 J ug/l	2.0C ug/l	09/13/02 10:31AM :LK
1,2-DICHLOROETHANE	EPA Method 8260	ND ug/l	1.5C ug/l	09/13/02 10:31AM :LK
TRICHLOROETHENE	EPA Method 8260	ND ug/l	1.5C ug/l	09/13/02 10:31AM :LK
1,2-DICHLOROPROPANE	EPA Method 8260	ND ug/l	1.0C ug/l	09/13/02 10:31AM :LK
BROMODICHLOROMETHANE	EPA Method 8260	ND ug/l	1.0C ug/l	09/13/02 10:31AM :LK
2-CHLOROETHYL VINYL ETHER	EPA Method 8260	ND ug/l	25.C ug/l	09/13/02 10:31AM :LK
CIS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/l	1.5C ug/l	09/13/02 10:31AM :LK
4-METHYL-2-PENTANONE	EPA Method 8260	ND ug/l	5.0C ug/l	09/13/02 10:31AM :LK
TOLUENE	EPA Method 8260	ND ug/l	1.5C ug/l	09/13/02 10:31AM :LK
TRANS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/l	1.0C ug/l	09/13/02 10:31AM :LK
1,1,2-TRICHLOROETHANE	EPA Method 8260	ND ug/l	5.0C ug/l	09/13/02 10:31AM :LK
TETRACHLOROETHENE	EPA Method 8260	ND ug/l	5.0C ug/l	09/13/02 10:31AM :LK
2-HEXANONE	EPA Method 8260	ND ug/l	5.0C ug/l	09/13/02 10:31AM :LK
DIBROMOCHLOROMETHANE	EPA Method 8260	ND ug/l	5.0C ug/l	09/13/02 10:31AM :LK
CHLOROBENZENE	EPA Method 8260	ND ug/l	1.0C ug/l	09/13/02 10:31AM :LK
ETHYL BENZENE	EPA Method 8260	7.35 J ug/l	1.0C ug/l	09/13/02 10:31AM :LK

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; CCL=colonies; RLs=laboratory reporting limits; L/A=Laboratory acc den
TNTC-too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test "pH lab" is analyzed upon receipt at the laboratory. the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requir
holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA002. Non-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 05ØC5;PA 68-330.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3300 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA — P.O. No: P'02-5444 — Inv. No:
Project No: 800195, WHITESTONE ASSOCIATES PA — PWSID No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
LD41115-5	5444-B1 GW	09/05/02 04:00pm NA°F	Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
M&P-XYLENES	EPA Method 8260	ND ug/l	3.5C ug/l	C9/13/02 10:31AM LK
O-XYLENE	EPA Method 8260	3.33 J ug/l	2.0C ug/l	C9/13/02 10:31AM LK
STYRENE	EPA Method 8260	ND ug/l	4.5C ug/l	C9/13/02 10:31AM LK
BROMOFORM	EPA Method 8260	ND ug/l	13.C ug/l	C9/13/02 10:31AM LK
1,1,2,2-TETRACHLOROETHANE	EPA Method 8260	ND ug/l	2.0C ug/l	C9/13/02 10:31AM LK
1,3-DICHLOROBENZENE	EPA Method 8260	ND ug/l	3.5C ug/l	C9/13/02 10:31AM LK
1,4-DICHLOROBENZENE	EPA Method 8260	ND ug/l	3.5C ug/l	C9/13/02 10:31AM LK
1,2-DICHLOROBENZENE	EPA Method 8260	ND ug/l	3.5C ug/l	C9/13/02 10:31AM LK
UNKNOWN AROMATIC	EPA 8260 Library Search	95.7 J ug/l		C9/13/02 10:31AM LK
NAPHTHALENE	EPA 8260 Library Search	33.7 NJ ug/l		C9/13/02 10:31AM LK

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
LD41115-6	5444-B7 GW Received Temp: 37°F Iced (Y/N): Y	09/05/02 04:[illegible]pm NA°F	Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
N-NITROSODIMETHYLAMINE	EPA Method 8270	ND ug/l	5.8C ug/l	C9/12/02 06:34PM A B
BIS(2-CHLOROETHYL) ETHER	EPA Method 8270	ND ug/l	3.8C ug/l	C9/12/02 06:34PM A B
1,3-DICHLOROBENZENE	EPA Method 8270	ND ug/l	3.9C ug/l	C9/12/02 06:34PM A B
1,4-DICHLOROBENZENE	EPA Method 8270	ND ug/l	3.0C ug/l	C9/12/02 06:34PM A B
BENZYL ALCOHOL	EPA Method 8270	ND ug/l	13.C ug/l	C9/12/02 06:34PM A B
1,2-DICHLOROBENZENE	EPA Method 8270	ND ug/l	3.8C ug/l	C9/12/02 06:34PM A B
BIS(2-CHLOROISOPROPYL) ETHER	EPA Method 8270	ND ug/l	3.4C ug/l	C9/12/02 06:34PM A B
N-NITROSO-DI-N-PROPYLAMINE	EPA Method 8270	ND ug/l	3.0C ug/l	C9/12/02 06:34PM A B
HEXACHLOROETHANE	EPA Method 8270	ND ug/l	3.3C ug/l	C9/12/02 06:34PM A B
NITROBENZENE	EPA Method 8270	ND ug/l	3.0C ug/l	C9/12/02 06:34PM A B
ISOPHORONE	EPA Method 8270	ND ug/l	3.7C ug/l	C9/12/02 06:34PM A B
BENZOIC ACID	EPA Method 8270	ND ug/l	29.7 ug/l	C9/12/02 06:34PM A B
1,2,4-TRICHLOROBENZENE	EPA Method 8270	ND ug/l	3.8C ug/l	C9/12/02 06:34PM A B
NAPHTHALENE	EPA Method 8270	15.5 J ug/l	3.6C ug/l	C9/12/02 06:34PM A B
4-CHLOROANILINE	EPA Method 8270	ND ug/l	3.2 ug/l	C9/12/02 06:34PM A B
HEXACHLOROBUTADIENE	EPA Method 8270	ND ug/l	3.8C ug/l	C9/12/02 06:34PM A B
2-METHYLNAPHTHALENE	EPA Method 8270	6.43 J ug/l	3.1 ug/l	C9/12/02 06:34PM A B
HEXACHLOROCYCLOPENTADIENE	EPA Method 8270	ND ug/l	3.1 ug/l	C9/12/02 06:34PM A B
2-CHLORONAPHTHALENE	EPA Method 8270	ND ug/l	3.8C ug/l	C9/12/02 06:34PM A B
2-NITROANILINE	EPA Method 8270	ND ug/l	3.2 ug/l	C9/12/02 06:34PM A B
DIMETHYL PHTHALATE	EPA Method 8270	ND ug/l	3.1 ug/l	C9/12/02 06:34PM A B

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=laboratory accredi
TNTC-too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH labels analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requir
holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA156, NON-NELAP labs: Wind Gap-NJ PA081,
Alltest-NJ 02015, Vineland-NJ 06005;PA 68-580.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: B00195, WHITESTONE ASSOCIATES PA
Project No: B00195, WHITESTONE ASSOCIATES PA

P.O. No: HP02-5444
PWSID No:

Inv. No:

Sample Number: L0411115-6
Sample Description: 5444-B7 GW
Samp. Date/Time/Temp: 09/05/02 01:15pm NA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
ACENAPHTHYLENE	EPA Method 8270	ND ug/l	4.96 ug/l	09/11/02 06:34PM AEB
2,6-DINITROTOLUENE	EPA Method 8270	ND ug/l	3.44 ug/l	09/11/02 06:34PM AEB
3-NITROANILINE	EPA Method 8270	ND ug/l	39.5 ug/l	09/11/02 06:34PM AEB
ACENAPHTHENE	EPA Method 8270	5.56 J ug/l	5.48 ug/l	09/11/02 06:34PM AEB
DIBENZOFURAN	EPA Method 8270	4.04 J ug/l	33.4 ug/l	09/11/02 06:34PM AEB
2,4-DINITROTOLUENE	EPA Method 8270	ND ug/l	13.5 ug/l	09/11/02 06:34PM AEB
DIETHYLPHTHALATE	EPA Method 8270	ND ug/l	7.76 ug/l	09/11/02 06:34PM AEB
4-CHLOROPHENYL PHENYL ETHER	EPA Method 8270	ND ug/l	4.86 ug/l	09/11/02 06:34PM AEB
FLUORENE	EPA Method 8270	0.12 J ug/l	4.04 ug/l	09/11/02 06:34PM AEB
4-NITROANILINE	EPA Method 8270	ND ug/l	26.0 ug/l	09/11/02 06:34PM AEB
1,2-DIPHENYLHYDRAZINE	EPA Method 8270	ND ug/l	5.24 ug/l	09/11/02 06:34PM AEB
N-NITROSODIPHENYLAMINE	EPA Method 8270	ND ug/l	3.76 ug/l	09/11/02 06:34PM AEB
4-BROMOPHENYL PHENYL ETHER	EPA Method 8270	ND ug/l	4.04 ug/l	09/11/02 06:34PM AEB
HEXACHLOROBENZENE	EPA Method 8270	ND ug/l	4.16 ug/l	09/11/02 06:34PM AEB
PHENANTHRENE	EPA Method 8270	17.1 J ug/l	3.52 ug/l	09/11/02 06:34PM AEB
ANTHRACENE	EPA Method 8270	3.44 J ug/l	4.04 ug/l	09/11/02 06:34PM AEB
CARBAZOLE	EPA Method 8270	4.84 J ug/l	18.5 ug/l	09/11/02 06:34PM AEB
DI-N-BUTYLPHTHALATE	EPA Method 8270	ND ug/l	4.36 ug/l	09/11/02 06:34PM AEB
FLUORANTHENE	EPA Method 8270	10.7 J ug/l	4.12 ug/l	09/11/02 06:34PM AEB
BENZIDINE	EPA Method 8270	ND ug/l	334. ug/l	09/11/02 06:34PM AEB
PYRENE	EPA Method 8270	8.44 J ug/l	4.24 ug/l	09/11/02 06:34PM AEB
BUTYL BENZYL PHTHALATE	EPA Method 8270	ND ug/l	13.8 ug/l	09/11/02 06:34PM AEB
3,3'-DICHLOROBENZIDINE	EPA Method 8270	ND ug/l	154. ug/l	09/11/02 06:34PM AEB
BENZO(A)ANTHRACENE	EPA Method 8270	3.29 J ug/l	3.88 ug/l	09/11/02 06:34PM AEB
CHRYSENE	EPA Method 8270	ND ug/l	3.52 ug/l	09/11/02 06:34PM AEB
BIS(2-ETHYLHEXYL)PHTHALATE	EPA Method 8270	0.40 J ug/l	10.5 ug/l	09/11/02 06:34PM AEB
DI-N-OCTYLPHTHALATE	EPA Method 8270	ND ug/l	4.04 ug/l	09/11/02 06:34PM AEB
BENZO(B)FLUORANTHENE	EPA Method 8270	ND ug/l	3.44 ug/l	09/11/02 06:34PM AEB
BENZO(K)FLUORANTHENE	EPA Method 8270	ND ug/l	3.84 ug/l	09/11/02 06:34PM AEB
BENZO(A)PYRENE	EPA Method 8270	ND ug/l	3.34 ug/l	09/11/02 06:34PM AEB
INDENO(1,2,3-CD)PYRENE	EPA Method 8270	ND ug/l	3.08 ug/l	09/11/02 06:34PM AEB
DIBENZ(A,H)ANTHRACENE	EPA Method 8270	ND ug/l	3.40 ug/l	09/11/02 06:34PM AEB
BENZO(G,H,I)PERYLENE	EPA Method 8270	ND ug/l	3.64 ug/l	09/11/02 06:34PM AEB
BIS(2-CHLOROETHOXY)METHANE	EPA Method 8270	ND ug/l	4.44 ug/l	09/11/02 06:34PM AEB
TOLUENE	EPA 8270 Library Search	22.3 JN ug/l		09/11/02 06:34PM AEB
UNKNOWN	EPA 8270 Library Search	18.3 J ug/l		09/11/02 06:34PM AEB
SUBSTITUTED PAH	EPA 8270 Library Search	33.8 J ug/l		09/11/02 06:34PM AEB

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=Laboratory accredi
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test "pH lab" is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requi
holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA005. Non-NELAP labs: Wind Gap-NJ PA001,
Alltest-NJ 02015, Vineland-NJ 06QC5;PA 66-330.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1305 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3170 Fax: 215-355-7231

Analytical Results

09/16/02 02:26pm

Account No: B00195, WHITESTONE ASSOCIATES PA
Project No: B00195, WHITESTONE ASSOCIATES PA

P.O. No: 5444 Inv. No:
PWSID No:

Sample Number	Sample Description	Samp. Date/Time/Temp	Sampled by
L0411115-6	5444-B7 GW	09/05/02 3:15pm NA°F	Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
UNKNOWN ALKANE-1	EPA 8270 Library Search	28.9 J ug/l		09/11/02 06:34PM AEB
UNKNOWN ALKANE-2	EPA 8270 Library Search	27.8 J ug/l		09/11/02 06:34PM AEB
UNKNOWN ALKANE-3	EPA 8270 Library Search	26.4 J ug/l		09/11/02 06:34PM AEB
UNKNOWN ALKANE-4	EPA 8270 Library Search	27.3 J ug/l		09/11/02 06:34PM AEB
UNKNOWN ALKANE-5	EPA 8270 Library Search	30.5 J ug/l		09/11/02 06:34PM AEB
UNKNOWN ALKANE-6	EPA 8270 Library Search	26.5 J ug/l		09/11/02 06:34PM AEB
UNKNOWN ALKANE-7	EPA 8270 Library Search	19.6 J ug/l		09/11/02 06:34PM AEB
UNKNOWN ALKANE-8	EPA 8270 Library Search	19.8 J ug/l		09/11/02 06:34PM AEB
CHLOROMETHANE	EPA Method 8260	ND ug/l	2.50 ug/l	09/13/02 11:02AM LLK
VINYL CHLORIDE	EPA Method 8260	2.75 J ug/l	2.00 ug/l	09/13/02 11:02AM LLK
BROMOMETHANE	EPA Method 8260	ND ug/l	10.0 ug/l	09/13/02 11:02AM LLK
CHLOROETHANE	EPA Method 8260	ND ug/l	10.0 ug/l	09/13/02 11:02AM LLK
1,1-DICHLOROETHENE	EPA Method 8260	ND ug/l	1.00 ug/l	09/13/02 11:02AM LLK
ACETONE	EPA Method 8260	22.9 J ug/l	10.0 ug/l	09/13/02 11:02AM LLK
CARBON DISULFIDE	EPA Method 8260	ND ug/l	10.0 ug/l	09/13/02 11:02AM LLK
METHYLENE CHLORIDE	EPA Method 8260	ND ug/l	10.0 ug/l	09/13/02 11:02AM LLK
TRANS-1,2-DICHLOROETHENE	EPA Method 8260	ND ug/l	1.00 ug/l	09/13/02 11:02AM LLK
ACROLEIN	EPA Method 8260	ND ug/l	20.0 ug/l	09/13/02 11:02AM LLK
ACRYLONITRILE	EPA Method 8260	ND ug/l	10.0 ug/l	09/13/02 11:02AM LLK
1,1-DICHLOROETHANE	EPA Method 8260	3.60 J ug/l	1.00 ug/l	09/13/02 11:02AM LLK
METHYL TERT-BUTYL ETHER	EPA Method 8260	ND ug/l	1.00 ug/l	09/13/02 11:02AM LLK
VINYL ACETATE	EPA Method 8260	ND ug/l	10.0 ug/l	09/13/02 11:02AM LLK
CIS-1,2-DICHLOROETHENE	EPA Method 8260	2.50 J ug/l	1.00 ug/l	09/13/02 11:02AM LLK
2-BUTANONE	EPA Method 8260	ND ug/l	10.0 ug/l	09/13/02 11:02AM LLK
CHLOROFORM	EPA Method 8260	ND ug/l	1.50 ug/l	09/13/02 11:02AM LLK
1,1,1-TRICHLOROETHANE	EPA Method 8260	ND ug/l	1.50 ug/l	09/13/02 11:02AM LLK
CARBON TETRACHLORIDE	EPA Method 8260	ND ug/l	1.00 ug/l	09/13/02 11:02AM LLK
BENZENE	EPA Method 8260	5.80 J ug/l	1.00 ug/l	09/13/02 11:02AM LLK
1,2-DICHLOROETHANE	EPA Method 8260	ND ug/l	1.50 ug/l	09/13/02 11:02AM LLK
TRICHLOROETHENE	EPA Method 8260	ND ug/l	1.50 ug/l	09/13/02 11:02AM LLK
1,2-DICHLOROPROPANE	EPA Method 8260	ND ug/l	1.00 ug/l	09/13/02 11:02AM LLK
BROMODICHLOROMETHANE	EPA Method 8260	ND ug/l	1.00 ug/l	09/13/02 11:02AM LLK
2-CHLOROETHYL VINYL ETHER	EPA Method 8260	ND ug/l	10.0 ug/l	09/13/02 11:02AM LLK
CIS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/l	1.50 ug/l	09/13/02 11:02AM LLK
4-METHYL-2-PENTANONE	EPA Method 8260	ND ug/l	1.00 ug/l	09/13/02 11:02AM LLK
TOLUENE	EPA Method 8260	121. ug/l	1.50 ug/l	09/13/02 11:02AM LLK
TRANS-1,3-DICHLOROPROPENE	EPA Method 8260	ND ug/l	10.0 ug/l	09/13/02 11:02AM LLK

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=Laboratory accreden
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the requir
holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA005, Non-NELAP labs: Wind Gap-NJ PA001,
Alltest-NJ 02015, Vineland-NJ 05805;PA 68-580.
All samples are collected as "grab" samples unless otherwise identified.

Unserialized Copy

Allen D. Schepbach

Allen D. Schepbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3510 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: B00195, WHITESTONE ASSOCIATES PA
Project No: B00195, WHITESTONE ASSOCIATES PA
P.O. No: WH02-5444
PWSID No:
Inv. No:

Sample Number: L941115-6
Sample Description: 5444-B7 GW
Samp. Date/Time/Temp: 09/05/02 04:15pm NA°F
Sampled by: Customer Sampled

Parameter	Method	Result	RLs	Test Date, Time, Analy
1,1,2-TRICHLOROETHANE	EPA Method 8260	ND ug/l	2.00 ug/l	09/13/02 11:02AM LK
TETRACHLOROETHENE	EPA Method 8260	ND ug/l	2.00 ug/l	09/13/02 11:02AM LK
2-HEXANONE	EPA Method 8260	ND ug/l	5.00 ug/l	09/13/02 11:02AM LK
DIBROMOCHLOROMETHANE	EPA Method 8260	ND ug/l	2.00 ug/l	09/13/02 11:02AM LK
CHLOROBENZENE	EPA Method 8260	ND ug/l	2.00 ug/l	09/13/02 11:02AM LK
ETHYL BENZENE	EPA Method 8260	ND ug/l	2.00 ug/l	09/13/02 11:02AM LK
M&P-XYLENES	EPA Method 8260	0.40 J ug/l	1.50 ug/l	09/13/02 11:02AM LK
O-XYLENE	EPA Method 8260	4.20 J ug/l	2.00 ug/l	09/13/02 11:02AM LK
STYRENE	EPA Method 8260	ND ug/l	1.50 ug/l	09/13/02 11:02AM LK
BROMOFORM	EPA Method 8260	ND ug/l	10.0 ug/l	09/13/02 11:02AM LK
1,1,2,2-TETRACHLOROETHANE	EPA Method 8260	ND ug/l	1.00 ug/l	09/13/02 11:02AM LK
1,3-DICHLOROBENZENE	EPA Method 8260	ND ug/l	1.50 ug/l	09/13/02 11:02AM LK
1,4-DICHLOROBENZENE	EPA Method 8260	ND ug/l	1.50 ug/l	09/13/02 11:02AM LK
1,2-DICHLOROBENZENE	EPA Method 8260	ND ug/l	1.50 ug/l	09/13/02 11:02AM LK
NONE FOUND	EPA 8260 Library Search	ND ug/l		09/13/02 11:02AM LK

L941115-1:
1. QUALIFIERS: "B" is used when the compound is found in the blank as well as in the sample; "J" indicates a value that is grea than the MDL but lower than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search; "E" compound exceeded the calibration range; "N" presumptive evidence of a compound.

L941115-1:
1. A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

L941115-1:
1. A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

L941115-2:

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND-not detected; NEG-negative; POS-positive; COL-colonies; RLs-laboratory reporting limits; L/A-laboratory accident TNTC-too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the req ir holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA166, (NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 06005;PA 68-520.
All samples are collected as "grab" samples unless otherwise identified.

Unmaterialized Copy

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax: 215-355-7231

QC Laboratories

Analytical Results

09/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA P.O. No: 4102-5444 Inv. No:
Project No: 800195, WHITESTONE ASSOCIATES PA PWSID No:

1. QUALIFIERS: "B" is used when the compound is found in the blank as well as in the sample; "J" indicates a value that is grea than the MDL but lower than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search;"E"compound exceeded the calibration range;"N" presumptive evidence of a compound.

L941115-2:
1. A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

L941115-3:
1. QUALIFIERS: "B" is used when the compound is found in the blank as well as in the sample; "J" indicates a value that is grea than the MDL but lower than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search;"E"compound exceeded the calibration range;"N" presumptive evidence of a compound.

L941115-3:
1. A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

L941115-3:
1. A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

L941115-4:
1. QUALIFIERS: "B" is used when the compound is found in the blank as well as in the sample; "J" indicates a value that is grea than the MDL but lower than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search;"E"compound exceeded the calibration range;"N" presumptive evidence of a compound.

L941115-4:
1. A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

L941115-5:
1. A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RL=laboratory reporting limits; L/A=laboratory accredited
TNTC=too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the required holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 09-131,NJDEP PA156. NON-NELAP labs: Wind Gap-NJ PA001, Alltest-NJ 02015, Vineland-NJ 01005;PA 68-330.
All samples are collected as "grab" samples unless otherwise identified.

 Unserialized Copy

Allen D. Schopbach

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax 215-355-7231

QC Laboratories

Analytical Results

03/16/02 02:26pm

Account No: 800195, WHITESTONE ASSOCIATES PA P.O. No: MP03-5444 Inv. No:
Project No: 800195, WHITESTONE ASSOCIATES PA PWSID No:

2. QUALIFIERS: "B" is used when the compound is found in the blank as well as in the sample; "J" indicates a value that is grea than the MDL but lower than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search;"E"=compound exceeded the calibration range;"N" presumptive evidence of a compound.

L941115-5:
1. A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

L941115-6:
1. A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

2. QUALIFIERS: "B" is used when the compound is found in the blank as well as in the sample; "J" indicates a value that is grea than the MDL but lower than the lowest standard, it is also used to indicate that a compound is tentatively identified in a library search;"E"=compound exceeded the calibration range;"N" presumptive evidence of a compound.

L941115-6:
1. A dilution was required to be performed on this sample because of the sample matrix and/or interferences by non-target compounds. The PQL's have been adjusted to reflect the dilution.

A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A-Laboratory accriden
TNTC-too numerous to count
A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
The test"pH lab"is analyzed upon receipt at the laboratory, the result may not be suitable for regulatory purposes.
Actual times of analysis for parameters reported <30 hrs are available upon request. All testing is completed within the re quir holding time unless otherwise noted..
QC Inc's laboratory certification ID's are: Southampton (NELAP) PADER 68-131,NJDEP PA356. *CN-NELAP labs: Wind Gap-NJ PA001 Alltest-NJ 02015, Vineland-NJ 96005;PA 68-530.
All samples are collected as "grab" samples unless otherwise identified.

 Onecialized Copy

Allen D. Schopbach, President

1205 Industrial Blvd., P.O. Box 514, Southampton, PA 18966-0514 Phone: 215-355-3900 Fax 215-355-7231

Delta
Environmental Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

104 Jamesville Road
Syracuse, New York 13214 USA

315.445.0224 800.477.7411
Fax 315.445.0793

DRAFT. CONFIDENTIAL.
ATTORNEY-CLIENT COMMUNICATION

30 March 2005

Phil Bousquet, Esq.
Green & Seifter, PLLC
One Lincoln Center
Syracuse, NY 13202

Re: Limited Site Investigation Report
Binghamton Plaza
33 West State Street, Binghamton, New York
Delta Project No. 0502010P

Dear Mr. Bousquet:

During the week of 7 March 2005, Delta Environmental Consultants, Inc. (Delta) conducted a Limited Site Investigation at the above-referenced property to determine if evidence of hazardous substances and/or impacts to soils and groundwater are present at the site. The Limited Site Investigation focused on a number of areas of concern (AOCs) identified during Delta's file review and due diligence, which was completed prior to commencing this site investigation. These AOCs pertained to the historic use of the site as an industrial landfill, as well as a number of former tenants in the plaza, including a dry cleaner, auto parts store and paint store. In addition, AOCs were also identified based on neighboring properties including a former trash incinerator and gasoline station due south of the property, a gasoline station and dry cleaner east of the property (i.e., on the opposite side of West State Street) and a closed gasoline station and automobile repair facility along the northeastern property boundary. This report describes the tasks performed, summarizes the analytical results of sampling activities, and provides a summary of findings.

SCOPE OF WORK

Soil Boring Installations

Ten soil borings (GSB-1 to GSB-10) were installed at the site to evaluate subsurface soil conditions. Soil borings were installed to a maximum depth of 24 feet below grade using a direct-push drill rig. Soil samples were collected continuously from grade to completion at each boring location. Delta's on-site geologist visually inspected and screened all soil samples in the field with a Photoionization Detector (PID) to assess the potential presence of volatile organic compounds (VOCs). A summary and brief

description of the purpose of each boring is provided in the table below; soil boring locations are depicted on Figure 1.

Soil Boring ID	Total Depth of Boring (ft)	Purpose
GSB-1	20	Adjacent to the former incinerator south of the site.
GSB-2	20	Adjacent to a former gasoline station south of the site.
GSB-3	24	Downgradient of a dry cleaner and gasoline station east and southeast of the site.
GSB-4	11.8*	Central portion of the site.
GSB-5	15	Downgradient of a suspected former onsite dry cleaner location.
GSB-6	20	Adjacent to transformers and Lindsey Park; and on the downgradient side of the site.
GSB-7	17*	Near transformers and Lindsey Park; and downgradient of former onsite auto parts store.
GSB-8	8.2*	Downgradient of suspect offsite features.
GSB-9	20	Downgradient of former gasoline station and auto repair facility east of the site (Howard property).
GSB-10	24	North-central portion of the site downgradient of the Howard property.

* Refusal encountered

Soil descriptions, visual observations, odors, PID readings and other pertinent information for each boring are presented in the Soil Boring Logs (Attachment 1).

Based on field screening data, visual observations, odors and soil boring location, Delta selected six soil samples for laboratory analysis: GSB-1 (12-16'), GSB-3 (16-20'), GSB-6 (4-8'), GSB-7 (12-16'), GSB-9 (4-8') and GSB-10 (16-20'). These soil samples were collected from specific depth intervals in these borings which generally exhibited the greatest impacts (i.e., presence of fill material, elevated PID readings, staining, odors, etc.). The six soil samples were analyzed for VOCs via EPA Method 8260, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270, PCBs via EPA Method 8082 and RCRA Metals. Soil samples were analyzed by Severn Trent Laboratories, Inc. (Severn Trent), located in Buffalo, New York. Severn Trent is an NYSDOH ELAP certified analytical laboratory.

Upon completion of each soil boring, the borehole was either backfilled or used to construct a temporary groundwater monitoring well. The temporary wells were installed for groundwater sampling purposes as described below.

Temporary Monitoring Well Installations

Six temporary monitoring wells were installed during the Limited Site Investigation to evaluate groundwater quality beneath the site. These wells were installed to a maximum of 24 feet below grade in borings GSB-1, GSB-3, GSB-5, GSB-6, GSB-7 and GSB-9. Each temporary well was constructed of approximately ten feet of one-inch diameter PVC well screen and up to 14 feet of one-inch diameter PVC riser. The well was lowered into the borehole to the desired depth then a silica sand pack was added until the sand was above the top of the screened interval. A bentonite chip seal was added above the sand to prevent any surface water from infiltrating into the well.

In general, the depth to groundwater and saturated thickness encountered in each of the soil borings drilled during this Limited Site Investigation was not consistent across the site. As indicated in the table below, the total depths of the wells ranged from approximately 14.83 to 23.40 feet below ground surface and the depths to water in each well ranged from approximately 10.25 to 21.39 feet below grade.

Well ID	GSB-1	GSB-3	GSB-5	GSB-6	GSB-7	GSB-9
Depth to Water (ft)	15.57	21.39	10.25	16.81	17.18	19.29
Total Depth (ft)	19.20	23.40	14.83	19.82	20.07	19.81

The inconsistent depths to water observed during the Limited Site Investigation prevented developing a reliable groundwater flow direction map. As such, the temporary wells were not surveyed during the course of this investigation. In addition, as indicated in the table above, less than five feet of water was present in each of the wells. Based on the small amount of water in each well and slow recharge, only minimal well development was performed to allow for as much volume as possible for groundwater sampling.

Following sampling, each temporary well was abandoned by removing the well screen and casing and filling the borehole to grade with cement grout.

Groundwater Sampling

Groundwater samples were collected from the temporary wells on 11 March 2005 using small diameter, disposable polyethylene bailers. Prior to sampling, the depth to groundwater and total depth of each well were measured, as summarized in the table above, with an electronic water level indicator. As previously stated, well development and/or purging was not performed due to the small amount of water present in the wells and slow recharge. Therefore, water samples were generally turbid and contained sediment. In general, groundwater samples were analyzed for VOCs via EPA Method 8260, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270, PCBs via EPA Method 8082 and RCRA Metals; however, some of the wells contained insufficient volume for all of the analyses. The specific parameters analyzed for each of the groundwater samples is presented below.

- GSB-1, GSB-5 and GSB-7: VOCs, PAHs, PCBs and metals;
- GSB-3 and GSB-6: VOCs and PAHs; and
- GSB-9: VOCs only.

The groundwater samples were analyzed by Severn Trent.

Data Evaluation

The analytical data collected during the Limited Site Investigation activities were reviewed and checked by Delta for completeness and accuracy. The soil analytical data were compared to NYSDEC TAGM 4046 recommended soil cleanup objectives. Groundwater analytical data were compared to NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS) ambient water quality standards and guidance values for groundwater. Data summary sheets are presented in Attachment 2.

RESULTS

Soil Sampling / Soil Boring Results

Soil boring data indicated that materials located beneath the majority of the site consisted of four to eight feet of soil fill consisting primarily of brown sand and gravel with varying amounts of silt. This material was compact and was placed over fill material that likely was associated with past landfill activities. Also, ash was encountered at most locations; this ash was likely associated with the former incinerator that was located immediately south of the site. The fill material generally consisted of dark gray to black sand and fine gravel with ash, metal, copper wire, paper, cardboard, plastic, glass, brick fragments, wood, slag, etc. This material was soft, damp to saturated, and ranged from four to 20 feet or more in thickness. The soil beneath the fill material consisted of gray-brown to olive-brown sand and silt with varying amounts of clay and gravel. This soil was wet to saturated, and appeared to be natural undisturbed materials.

Field screening results indicated the potential presence of petroleum residuals in a number of the soil borings. Generally, the evidence of petroleum residuals were encountered in the dark-gray to black fill materials at depths of between 8 feet and 20 feet below grade. Specifically, petroleum odors and staining were observed in borings GSB-1, GSB-3, GSB-6 and GSB-7. The PID readings in the fill material in these borings ranged from 5 to 40 parts per million (ppm) with some higher reading (115-275 ppm) in boring GSB-3. The PID readings for the soil samples from the remaining borings were generally between 0 to 5 ppm.

Soil Sampling / Analytical Results

Laboratory reports show that VOCs, PAHs and metals were detected in all six soil samples (Table 1). Of the VOCs detected, only the concentration of acetone in samples GSB-1 (12-16'), GSB-6 (4-8') and GSB-10 (16-20') met or exceeded the NYSDEC-recommended soil cleanup objective. Numerous PAHs and metals were detected in each sample with a number of the reported concentrations exceeding the applicable NYSDEC-recommended soil cleanup objectives. The only exception to this was sample GSB-3 (16-20'), where only one PAH (phenanthrene) was detected, and the detected concentration was below the cleanup objective. PCBs were detected in three of the soil samples: GSB-3 (16-20'), GSB-6 (4-8') and GSB (4-8'); however, all of the reported concentrations were below the applicable NYSDEC-recommended soil cleanup objective.

Groundwater Sampling / Analytical Results

Laboratory reports show that VOCs were detected in each of the groundwater samples with the reported concentrations of cis-1,2-dichloroethene, tetrachloroethene, trichloroethene and vinyl chloride in sample GSB-5, benzene, methylene chloride and xylenes in sample GSB-6, chlorobenzene in sample GSB-7 and acetone in sample GSB-9 exceeding their respective NYS Class GA groundwater standards (Table 2).

Five of the six groundwater samples were analyzed for PAHs. One or more PAHs were reported in three of these five samples (GSB-5, GSB-6 and GSB-7) with the concentrations of chrysene in samples GSB-5 and GSB-6 and benzo(a)anthracene, benzo(b)fluoranthene and naphthalene in sample GSB-6 exceeding their respective NYS Class GA guidance values.

Three of the six samples (GSB-1, GSB-5 and GSB-7) were analyzed for PCBs and RCRA metals. PCBs were detected in sample GSB-1 at a concentration of 0.32 parts per billion (ppb), which exceeded the NYS Class GA groundwater standard of 0.09 ppb. PCBs were not detected in the remaining samples. Metals were detected in each of the three samples with the concentrations of lead in all three samples exceeding the NYS Class GA groundwater standard. In addition, the reported concentrations of arsenic, barium, chromium and mercury in samples GSB-1 and GSB-7 as well as the concentration of cadmium and silver in sample GSB-1, also exceeded their respective NYS Class GA groundwater standards. NOTE: These water samples contained sediment, and the detected PCBs and metals are likely due to the sediment in the samples.

Groundwater Flow

As previously indicated, an accurate groundwater flow direction map for the site could not be prepared due to the inconsistent depth to groundwater encountered during the Limited Site Investigation. Based on topography and proximity to the Chenango River, groundwater is expected to flow to the west and/or northwest toward the river.

Delta appreciates the opportunity to present the findings of this Limited Soil Investigation. If you have any questions or comments concerning this submittal, feel free to contact the undersigned at (315) 445-0224 or by e-mail (mschumacher@deltaenv.com).

Sincerely,
DELTA ENVIRONMENTAL CONSULTANTS, INC.

Mark J. Schumacher
Project Manager

Attachments

Three of the six samples (GSB-1, GSB-5 and GSB-7) were analyzed for PCBs and RCRA metals. PCBs were detected in sample GSB-1 at a concentration of 0.32 parts per billion (ppb), which exceeded the NYS Class GA groundwater standard of 0.09 ppb. PCBs were not detected in the remaining samples. Metals were detected in each of the three samples with the concentrations of lead in all three samples exceeding the NYS Class GA groundwater standard. In addition, the reported concentrations of arsenic, barium, chromium and mercury in samples GSB-1 and GSB-7 as well as the concentration of cadmium and silver in sample GSB-1, also exceeded their respective NYS Class GA groundwater standards. NOTE: These water samples contained sediment, and the detected PCBs and metals are likely due to the sediment in the samples.

Groundwater Flow

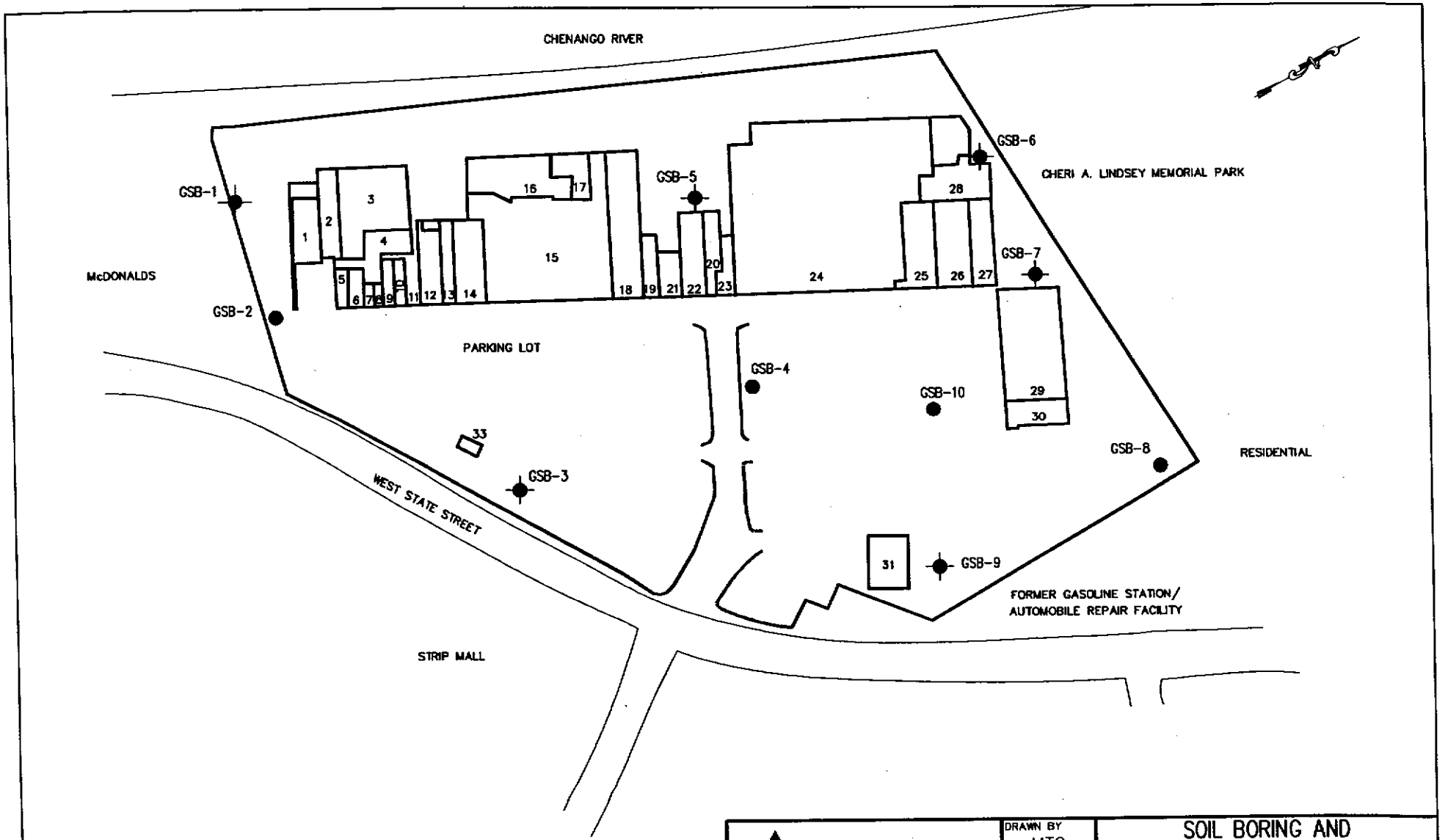
As previously indicated, an accurate groundwater flow direction map for the site could not be prepared due to the inconsistent depth to groundwater encountered during the Limited Site Investigation. Based on topography and proximity to the Chenango River, groundwater is expected to flow to the west and/or northwest toward the river.

Delta appreciates the opportunity to present the findings of this Limited Soil Investigation. If you have any questions or comments concerning this submittal, feel free to contact the undersigned at (315) 445-0224 or by e-mail (mschumacher@deltaenv.com).

Sincerely,
DELTA ENVIRONMENTAL CONSULTANTS, INC.

Mark J. Schumacher
Project Manager

Attachments



Delta Environmental Consultants Inc.
9 CORPORATE DRIVE
CLIFTON PARK, NY 12065
PHONE: (518) 688-0050
FAX: (518) 688-0058

DRAWN BY	MTG
PROJECT NO.	0502010P
DATE	3/25/05
SCALE	NONE

SOIL BORING AND TEMPORARY MONITORING WELL LOCATION MAP

BINGHAMTON PLAZA
BINGHAMTON, NY

PREPARED FOR: GREEN & SEIFTER, PLLC

FIGURE: 1

TABLE 1
Summary of Analytical Results - Soil Samples
VOCs, SVOCs, PCBs and Metals
Binghamton Plaza - Limited Site Investigation

PARAMETER	TAGM 4046 Soil Cleanup Objectives (ppb)	SOIL BORINGS / SOIL SAMPLE RESULTS GSB-1 (12-16')	GSB-3 (16-20')	GSB-6 (4-8')	GSB-7 (12-16')	GSB-9 (4-8')	GSB-10 (16-20')
Volatile Organic Compounds (ppb)							
Acetone	200	**210**	57	**220**	180	28	**200**
Benzene	60	4	ND	2	ND	ND	ND
2-Butanone	300	22	12	47	42	ND	40
Carbon Disulfide	2,700	ND	ND	7	1	ND	2
Cyclohexane	NS	38	13	23	3	48	43
1,4-Dichlorobenzene	8,500	ND	4	ND	ND	ND	4
Ethylbenzene	5,500	3	5	2	ND	ND	4
Isopropylbenzene	NS	15	ND	9	ND	ND	18
Methylcyclohexane	NS	4	ND	8	ND	ND	3
Methylene Chloride	100	7	ND	ND	11	ND	8
Toluene	1,500	3	ND	ND	ND	ND	ND
Vinyl Chloride	200	ND	ND	ND	ND	3	18
Xylenes (total)	1,200	17	ND	54	ND	ND	100
Semi-Volatile Organic Compounds (ppb)							
Acenaphthene	50,000	2,000	ND	320	ND	ND	ND
Acenaphthylene	41,000	1,800	ND	280	ND	ND	ND
Anthracene	50,000	4,100	ND	ND	ND	ND	2,300
Benzo(a)anthracene	224 or MDL	**7,600**	ND	**460**	**460**	**350**	**3,000**
Benzo(b)fluoranthene	1,100	**12,000**	ND	810	830	560	**2,700**
Benzo(k)fluoranthene	1,100	**13,000**	ND	910	940	630	ND
Benzo(a)pyrene	61 or MDL	**3,800**	ND	**210**	**1,500**	**280**	**2,300**
Chrysene	400	**10,000**	ND	**680**	**570**	360	**2,600**
Dibenzo(a,h)anthracene	14 or MDL	**1,500**	ND	ND	**340**	ND	ND
Fluoranthene	50,000	23,000	ND	1,500	300	890	8,500
Fluorene	50,000	5,100	ND	630	ND	ND	2,000
Indeno(1,2,3-cd)pyrene	3,200	1,800	ND	ND	300	ND	ND
2-Methylnaphthalene	36,400	5,400	ND	13,000	ND	690	ND
Naphthalene	13,000	3,900	ND	3,400	ND	140	ND
Phenanthrene	50,000	25,000	180	1,000	220	520	9,200
Pyrene	50,000	12,000	ND	1,200	280	530	4,800
PCBs Total (ppb)							
Aroclor 1242	10,000 (1)	ND	340	ND	ND	ND	ND
Aroclor 1254	10,000 (1)	ND	220	420	ND	3000	ND
Metals (ppm)							
Arsenic	7.5 or SB	5.1	7.3	**76.2**	4.6	**7.9**	5.0
Barium	300 or SB	148	**332**	**304**	57.1	**529**	140
Cadmium	1 or SB	ND	0.71	**2.20**	ND	**2.0**	ND
Chromium	10 or SB	**16.6**	**38.8**	**39.1**	**17.8**	**25.9**	**24.8**
Lead	SB (2)	208	**1200**	**863**	98.9	**1110**	233
Mercury	0.1	**0.30**	**0.23**	**3.50**	**0.30**	**0.34**	**0.34**
Selenium	2 or SB	ND	ND	**68.8**	ND	ND	ND
Silver	SB	2.7	12.8	ND	ND	28.5	10.6

Notes:

ND: Compound not detected: NA: Compound not analyzed; NS: No standard; MDL: Method Detection Limit; SB: Site Background

(1): Cleanup objective for subsurface soils.

(2): Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

12,000 Analyte detected at concentration in excess of NYSDEC TAGM 4046 recommended soil cleanup objective.

TABLE 2
Summary of Analytical Results - Groundwater Samples
VOCs, SVOCs, PCBs and Metals
Binghamton Plaza - Limited Site Investigation

PARAMETER	NYSDEC Class GA Groundwater Standard/Guidance Value (ppb)	TEMPORARY MONITORING WELLS GROUNDWATER SAMPLE RESULTS (ppb)					
		GSB-1	GSB-3	GSB-5	GSB-6	GSB-7	GSB-9
Volatile Organic Compounds (ppb)							
Acetone	50	4.20	ND	ND	4.60	4.60	**64**
Benzene	1	0.57	ND	0.45	**7.90**	0.80	ND
2-Butanone	50	ND	ND	ND	2.90	ND	18
Carbon Disulfide	NS	0.27	0.31	ND	1.70	1.40	ND
Chlorobenzene	5	0.52	ND	ND	ND	**9.70**	ND
Chloroform	7	ND	ND	ND	0.41	ND	ND
Cyclohexane	NS	2.10	5.20	9.90	23	4.90	0.91
1,3-Dichlorobenzene	3	ND	ND	ND	0.70	ND	ND
1,4-Dichlorobenzene	3	0.32	ND	ND	0.72	2.30	ND
cis-1,2-Dichloroethene	5	ND	ND	**11**	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	1.40	ND	ND
2-Hexanone	50	2.0	ND	ND	ND	ND	ND
Isopropyl benzene	5	1.20	ND	0.23	4.50	1.80	ND
Methylcyclohexane	NS	0.62	ND	ND	ND	ND	ND
Methylene Chloride	5	0.69	ND	ND	**5.90**	0.63	ND
MTBE	10	0.82	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	**8.60**	ND	ND	ND
Trichloroethene	5	ND	ND	**5.50**	ND	ND	ND
Vinyl Chloride	2	ND	ND	**4.0**	ND	ND	ND
Xylenes (total)	5	0.72	ND	ND	**13**	ND	ND
Semi-Volatile Organic Compounds (ppb)							
Acenaphthene	20	ND	ND	3.0	5.0	ND	NA
Benzo(a)anthracene	0.002	ND	ND	ND	**3.0**	ND	NA
Benzo(b)fluoranthene	0.002	ND	ND	ND	**4.0**	ND	NA
Chrysene	0.002	ND	ND	**2.0**	**3.0**	ND	NA
Fluoranthene	50	ND	ND	5.0	8.0	ND	NA
Fluorene	50	ND	ND	2.0	3.0	ND	NA
2-Methylnaphthalene	NS	ND	ND	ND	7.0	2.0	NA
Naphthalene	10	ND	ND	ND	**16.0**	ND	NA
Phenanthrene	50	ND	ND	5.0	6.0	ND	NA
Pyrene	50	ND	ND	3.0	5.0	ND	NA
PCBs Total (ppb) (Aroclor 1254)	0.09	**0.32**	NA	ND	NA	ND	NA
Metals (ppb)							
Arsenic	25	**140**	NA	ND	NA	**100**	NA
Barium	1,000	**3,600**	NA	170	NA	**1,700**	NA
Cadmium	5	**15**	NA	ND	NA	1.5	NA
Chromium	50	**210**	NA	8.8	NA	**190**	NA
Lead	25	**4,000**	NA	**30**	NA	**1,500**	NA
Mercury	0.7	**50**	NA	ND	NA	**17**	NA
Selenium	10	ND	NA	ND	NA	ND	NA
Silver	50	**88**	NA	ND	NA	4.1	NA

Notes:

ND: Compound not detected: NA: Compound not analyzed; NS: No standard

64 Analyte detected at concentration in excess of NYSDEC Class GA Groundwater Standard or Guidance Value.

ATTACHMENT 1

SOIL BORING LOGS

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-1

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.8	2.0	0-0.5' Asphalt and road base gravel 0.5-1.5' Sand (f-cs) and gravel (f), black, dry 1.5-3.8' Sand (f-cs) some gravel (f-cs) some silt, gray-brown, hard, dry			No odor or staining
5.0 6.0 7.0 8.0	2	NA	3.4	12.0	Sand (f-cs) some gravel (f-cs) little silt, brown to black with some fill (metal wire and glass fragments), dry to damp			Weak oily odor in fill material
9.0 10.0 11.0 12.0	3	NA	1.7	16.0	Same as above, less gravel with more fill - wood, slag, ash, etc.			Weak oily odor in fill material
13.0 14.0 15.0 16.0	4	NA	3.2	33.0	Same as above - more fill (ash, wire, brick, wood, copper wire, tarry substance) mixed with sand and gravel, damp to moist, brown to black			Weak oily odor in fill material
17.0 18.0 19.0 20.0	5	NA	1.0	-	Same as above, black, saturated EOB @ 20'			Weak oily odor in fill material

DELTA ENVIRONMENTAL CONSULTANTS
TEST BORING LOG
BORING NO.: GSB-2

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.2	0.0	0-0.5' Asphalt and road base gravel 0.5-3.2' Sand (f-cs) some gravel (f-cs) little silt little clay, more silt and clay toward bottom, damp to moist, gray-brown			No odor or staining
5.0 6.0 7.0 8.0	2	NA	1.2	0-1	Same as above, dry to damp			No odor or staining
9.0 10.0 11.0 12.0	3	NA	2.4	3-4	Sand (f-cs) little silt little gravel (f-m) trace clay, finer with depth, gray-brown with some glass fragments, damp to moist			No odor or staining
13.0 14.0 15.0 16.0	4	NA	1.8	0-1	0-0.6' Same as above, damp to moist 0.6-1.8' Sand (f-cs) trace gravel (f-m) trace silt trace clay, gray brown, damp			No odor or staining
17.0 18.0 19.0 20.0	5	NA	2.5	3-4	0-0.5' Same as above, saturated 0.5-1.8' Sand (f-cs) trace gravel (f) with fill - ash, brick frags, slag, etc., black, saturated 1.8-3.0' Silt some clay trace sand (f), olive-gray, wet EOB @ 20'			No odor or staining

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-3

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 2
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.8	1.1	0-0.5' Asphalt and road base gravel 0.5-3.0' Sand (f-cs) some gravel (f-cs) little silt, gray-brown, hard, dry, some glass fragments 3.0-3.8' Sand (f-cs) trace gravel (f), black, fill with glass, wire, ash, dry, soft			No odor or staining
5.0 6.0 7.0 8.0	2	NA	0.7	3.0	Same as above, very soft, dry-damp			Weak oily odor in fill
9.0 10.0 11.0 12.0	3	NA	0.8	2.5	Same as above, very soft with newspaper and plastic in the fill, black, damp			Weak oily odor in fill
13.0 14.0 15.0 16.0	4	NA	0.8	115.0	Same as above, very soft, damp to moist			Weak oily odor in fill
17.0 18.0 19.0 20.0	5	NA	0.6	275.0	Same as above, moist			Weak oily odor in fill

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-3

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 2 of 2
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
21.0								
22.0	6	NA	2.4	-	Sand (f-cs) little gravel (f-m) little silt trace clay, gray-brown, saturated			No odor or staining
23.0								
24.0					EOB @ 24'			
25.0								
26.0								
27.0								
28.0								
29.0								
30.0								
31.0								
32.0								
33.0								
34.0								
35.0								
36.0								
37.0								
38.0								

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-4

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.8	3.2	0-1' Asphalt and road base gravel 1-3.8' Sand (f-cs) some gravel little silt, gray-brown, dry to damp, hard, coarse			No odor or staining
5.0 6.0 7.0 8.0	2	NA	3.4	1.0	Sand (f-cs) some gravel little silt little clay, gray-brown, wet to saturated with fill material - paper, glass, brick, ash, etc., in bottom half of the sample			No odor or staining
9.0 10.0 11.0 12.0	3	NA	1.2	2.5	Same as above with more paper and wood fill, saturated, refusal at 11.8' EOB @ 12'			No odor or staining
13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0								

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-5

PROJECT: Bingamton Plaza - Limited Site Investigation									Sheet 1 of 1
CLIENT: Green & Seifter, PLLC									
DELTA PROJECT NO: 0502010P 0001									
DRILLING METHOD: Direct Push					SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200					Macro Core	1-1/2" ID	NA	NA	DATE: 3-10-05
DRILLERS: Subsurface Drilling Sol'ns					INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION				REMARKS
1.0 2.0 3.0 4.0	1	NA	3.2	1-2	0-0.5' Asphalt and road base gravel 0.5-3.2' Sand (f-cs) some gravel (f-cs) little silt, gray-brown, coarse, dry to damp toward bottom				No odor or staining
5.0 6.0 7.0 8.0	2	NA	2.4	1.5	0-2.0' Same as above, damp to moist 2.0-2.4' Sand (f-cs) little gravel (f), black, wet fill material with ash, tile, brick, glass, etc.				No odor or staining
9.0 10.0 11.0 12.0	3	NA	0.4	2.0	Same as above, saturated, black				Very weak oily odor
13.0 14.0 15.0 16.0	4	NA	0.4	-	Same as above EOB @ 15'				No odor or staining
17.0 18.0 19.0 20.0									

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-6

PROJECT: Bingamton Plaza - Limited Site Investigation									Sheet 1 of 1
CLIENT: Green & Seifter, PLLC									
DELTA PROJECT NO: 0502010P 0001									
DRILLING METHOD: Direct Push					SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200					Macro Core	1-1/2" ID	NA	NA	DATE: 3-10-05
DRILLERS: Subsurface Drilling Sol'ns					INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION				REMARKS
1.0 2.0 3.0 4.0	1	NA	3.2	0.5	Sand (f-cs) some gravel (f-cs) little silt, gray-brown, dry, hard				No odor or staining
5.0 6.0 7.0 8.0	2	NA	1.5	40.0	Sand (f-cs) little gravel (f-m) little silt, brown to black at bottom, dry to damp fill with organics toward bottom				Oily odor in bottom 0.4'
9.0 10.0 11.0 12.0	3	NA	0.4	5.0	Sand (f-cs) some silt trace gravel (f-m), dark gray, moist to wet				Weak oily odor
13.0 14.0 15.0 16.0	4	NA	1.8	20.0	0-0.9' Same as above, gray, saturated 0.9-1.8' Sand (f-cs) trace gravel (f) with fill - ash, brick, fire brick, glass, wood, etc., damp to moist				Weak oily odor
17.0 18.0 19.0 20.0	5	NA	3.0	8.0	0-0.8' Same as above with newspaper 0.8-3.0' Sand (f-m) and silt little clay, dark gray, wet, soft some newspaper and wood fill at top EOB @ 20'				Weak oily odor

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-7

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-10-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.8	0.5	Sand (f-cs) some gravel (f-m) little silt, gray-brown, dry to damp, compact, coarse fill			No odor or staining
5.0 6.0 7.0 8.0	2	NA	1.9	1.0	Sand (f-cs) some gravel (f-cs) little silt trace clay, fines toward bottom, damp to moist, gray-brown grading to dark brown, minor fill material near bottom - glass and brick			No odor or staining
9.0 10.0 11.0 12.0	3	NA	1.6	3.0	0-0.6' Same as above 0.6-1.6' Sand (f-cs) little silt little gravel (f-m), damp to wet, black with fill - ash, glass, brick, metal, plastic, wood, etc.			Weak oily odor
13.0 14.0 15.0 16.0	4	NA	1.0	5.0	Same as above, dark brown with more metal			Weak oily odor
17.0 18.0 19.0 20.0	5	NA	0.8	-	Same as above, saturated, refusal at 17' EOB @ 17'			Weak oily odor

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-8

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0								
2.0	1	NA	3.8	0.0	Sand (f-cs) some gravel (f-cs) little silt, brown to black with depth, dry to damp with some small brick fragments			No odor or staining
3.0								
4.0								
5.0								
6.0	2	NA	2.8	0.0	Sand (f-cs) some gravel (f-cs) little silt, brown, re-worked soil with minor fill material - brick frags and wood near bottom, dry to damp			No odor or staining
7.0								
8.0								
9.0								
10.0	3	NA	0.0	-	Refusal at 8.2' - no recovery			
11.0					EOB @ 8.2'			
12.0								
13.0								
14.0								
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-9

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 1
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-09-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.0	6.0	0-0.8' Asphalt and road base gravel 0.8-2.5' Sand (f-cs) some gravel (f-m) little silt, gray-brown, dry, fill soil 2.5-3.0' Sand (f-cs) little gravel (f), black, dry to damp, with fill material - ash, metal, glass, slag, etc.			No odor or staining Weak oily odor
5.0 6.0 7.0 8.0	2	NA	1.2	3.0	Sand (f-cs) little gravel (f-m) trace silt, black, wet with fill - ash, glass, metal, wire, wood, etc., soft			Weak oily odor
9.0 10.0 11.0 12.0	3	NA	1.0	2.0	Same as above, more fill, black, wet, very soft			Weak oily odor
13.0 14.0 15.0 16.0	4	NA	1.2	1.5	Same as above, wet			Weak oily odor
17.0 18.0 19.0 20.0	5	NA	3.8	1.0	Sand (f-m) and silt little clay, wet, soft, dark gray grading to olive-gray and softer EOB @ 20'			Weak oily odor

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-10

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 1 of 2
CLIENT: Green & Seifter, PLLC								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-10-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
1.0 2.0 3.0 4.0	1	NA	3.9	0.5	0-0.5' Asphalt and road base gravel Sand)f-cs) some gravel (f-cs) little silt, gray-brown, dry, hard fill soil			No odor or staining
5.0 6.0 7.0 8.0	2	NA	2.8	5.0	0-1.3' Same as above 1.3-2.8' Sand (f-cs) some gravel (f-m) trace silt, damp, black with fill - glass, metal, brick frags, ash, etc.			No odor or staining
9.0 10.0 11.0 12.0	3	NA	0.5	8.0	Same as above, damp			No odor or staining
13.0 14.0 15.0 16.0	4	NA	0.3	10.0	Same as above			No odor or staining
17.0 18.0 19.0 20.0	5	NA	0.9	18.0	Same as above, moist to wet with dark-gray sand and silt at bottom of the tube			No odor or staining

DELTA ENVIRONMENTAL CONSULTANTS

TEST BORING LOG

BORING NO.: GSB-10

PROJECT: Bingamton Plaza - Limited Site Investigation								Sheet 2 of 2
CLIENT: *Green & Seifter, PLLC*								
DELTA PROJECT NO: 0502010P 0001								
DRILLING METHOD: Direct Push				SAMPLER	BIT SIZE	CORE	CASING	
DRILLING RIG: Concord 9200				Macro Core	1-1/2" ID	NA	NA	DATE: 3-10-05
DRILLERS: Subsurface Drilling Sol'ns				INSPECTOR: SCOTT BRYANT				
DEPTH IN FT.	SAMPLE NUMBER	BLOWS PER 6"	REC.	PID READING	SOIL DESCRIPTION			REMARKS
21.0								
22.0	6	NA	0.8	-	Sand (f-cs) little gravel (f-m) trace silt, gray-brown, saturated			No odor or staining
23.0								
24.0					EOB @ 24'			
25.0								
26.0								
27.0								
28.0								
29.0								
30.0								
31.0								
32.0								
33.0								
34.0								
35.0								
36.0								
37.0								
38.0								

ATTACHMENT 2

LABORATORY ANALYTICAL REPORTS

SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A05-2260

STL Project#: NY4A9341
Site Name: Delta Environmental Consultants, Inc.
Task: Binghamton Project

Mark Schumacher
Delta Environmental
104 Jamesville Rd.
Syracuse, NY 13214

STL Buffalo

Brian J. Fischer
Project Manager

03/24/2005

STL Buffalo
Current Certifications

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP SDWA, CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington	CWA	C254
West Virginia	CWA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5226011	GSB-1	WATER	03/11/2005	09:55	03/12/2005	12:15
A5226002	GSB-1 (12-16)	SOIL	03/09/2005	12:40	03/12/2005	12:15
A5226006	GSB-10 (16-20)	SOIL	03/10/2005	17:00	03/12/2005	12:15
A5226012	GSB-3	WATER	03/11/2005	10:15	03/12/2005	12:15
A5226005	GSB-3 (16-20)	SOIL	03/09/2005	14:00	03/12/2005	12:15
A5226010	GSB-5	WATER	03/11/2005	09:35	03/12/2005	12:15
A5226009	GSB-6	WATER	03/11/2005	09:15	03/12/2005	12:15
A5226001	GSB-6 (4-8)	SOIL	03/10/2005	08:20	03/12/2005	12:15
A5226008	GSB-7	WATER	03/11/2005	08:50	03/12/2005	12:15
A5226004	GSB-7 (12-16)	SOIL	03/10/2005	15:00	03/12/2005	12:15
A5226007	GSB-9	WATER	03/11/2005	08:25	03/12/2005	12:15
A5226003	GSB-9 (4-8)	SOIL	03/09/2005	16:10	03/12/2005	12:15
A5226013	TRIP BLANK	WATER	03/11/2005		03/12/2005	12:15

METHODS SUMMARY

Job#: A05-2260

STL Project#: NY4A9341
Site Name: Delta Environmental Consultants, Inc.

PARAMETER	ANALYTICAL METHOD
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS	SW8463 8260
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO	SW8463 8270
Delta - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO	SW8463 8270
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Lead - Total	SW8463 6010
Mercury - Total	SW8463 7470
Mercury - Total	SW8463 7471
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A05-2260

STL Project#: NY4A9341
Site Name: Delta Environmental Consultants, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-2260
Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C
No tests were listed on chain of custody for sample GSB-3; tests were assigned according to bottle labels.

GC/MS Volatile Data

The analyte Bromomethane was detected in the Method Blanks A5B0352902 (VBLK82) and A5B0358702 (VBLK84) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC/MS Semivolatile Data

The samples GSB-1 (12-16) RI, GSB-9 (4-8) RI, and GSB-7 (12-16) RI were subjected to gel permeation chromatrography cleanup in order to obtain client requested reporting limits.

The spike recoveries for Pyrene were below the laboratory quality control limits in the Matrix Spike GSB-6 (4-8). Since the Matrix Spike Blank A5B0334301 recoveries were compliant, no corrective action was required.

Sample GSB-1 (12-16), 8270 soil, had an adjusted final volume during extraction due to extract matrix and viscosity.

GC Extractable Data

For method 8082, the recovery of surrogate Decachlorobiphenyl in sample GSB-7 is outside of established quality control limits due to the sample matrix. The recovery of surrogate Tetrachloro-m-xylene is within quality control limits; no corrective action is required.

For method 8082, many samples required dilution prior to analysis due to the heavy matrix present or high concentration of target analytes. The surrogates are diluted out of all sample extracts with a dilution factor of 10X or greater.

Metals Data

The recovery of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Barium and Lead(MS) and above quality control limits for Lead(MSD). The sample result is more than four times greater than the spike added. The RPD of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Barium and Lead. The LCS (A5B0334601) is acceptable.

The recovery of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exhibited results above quality control limits for Chromium(SD), and below quality control limits for Arsenic, Cadmium, Chromium(MS), Selenium, and Silver. Sample matrix is suspect. The RPD of sample GSB-6 (4-8) Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Arsenic, Chromium, and Selenium. However, the LCS (A5B0334601) was acceptable.

The recovery of sample GSB-7 Matrix Spike Duplicate exhibited results below the quality control limits for Barium and Lead. The sample result is more than four times greater than the spike added. The RPD of sample GSB-7 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Barium and Lead. The LFB (A5B0334701) is acceptable.

The recovery of sample GSB-7 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Cadmium, Chromium, Mercury and Selenium. Sample matrix is suspect. However, the LFB's (A5B0334701 and A5B0339201) were acceptable.

The value obtained for Mercury on sample GSB-7 was confirmed via reanalysis. Only the result from the original analysis is provided in this data package. The initial over-range value obtained for sample GSB-1 was confirmed by the dilution of that sample.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

_____

Brian J. Fischer
Project Manager

_____

Date

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
GSB-6 (4-8)	A5226001	Mercury - Total	10.00	008
GSB-6 (4-8) DL	A5226001DL	8270	5.00	008
GSB-6 (4-8)	A5226001MS	Mercury - Total	10.00	008
GSB-6 (4-8)	A5226001SD	Mercury - Total	10.00	008
GSB-1 (12-16)	A5226002	8270	10.00	012
GSB-1 (12-16) RI	A5226002RI	8270	5.00	008
GSB-9 (4-8)	A5226003	8082	20.00	008
GSB-9 (4-8)	A5226003	8270	10.00	012
GSB-7 (12-16)	A5226004	8270	10.00	012
GSB-10 (16-20)	A5226006	8270	10.00	008
GSB-7	A5226008MS	Mercury - Total	5.00	008
GSB-7	A5226008SD	Mercury - Total	5.00	008
GSB-1	A5226011	Mercury - Total	10.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Date: 03/24/2005
Time: 16:18:43

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		GSB-1 (12-16)		GSB-10 (16-20)		GSB-3 (16-20)		GSB-6 (4-8)	
Job No	Lab ID	A05-2260	A5226002	A05-2260	A5226006	A05-2260	A5226005	A05-2260	A5226001
Sample Date		03/09/2005		03/10/2005		03/09/2005		03/10/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	210	30	200	30	57	30	220	28
Benzene	UG/KG	4 J	6	ND	6	ND	6	2 J	6
Bromodichloromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Bromoform	UG/KG	ND	6	ND	6	ND	6	ND	6
Bromomethane	UG/KG	ND	6	ND	6	ND	6	ND	6
2-Butanone	UG/KG	22 J	30	40	30	12 J	30	47	28
Carbon Disulfide	UG/KG	ND	6	2 J	6	ND	6	7	6
Carbon Tetrachloride	UG/KG	ND	6	ND	6	ND	6	ND	6
Chlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloroform	UG/KG	ND	6	ND	6	ND	6	ND	6
Chloromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Cyclohexane	UG/KG	38	6	43	6	13	6	23	6
1,2-Dibromoethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Dibromochloromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,4-Dichlorobenzene	UG/KG	ND	6	4 J	6	4 J	6	ND	6
Dichlorodifluoromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1-Dichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
cis-1,2-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
trans-1,2-Dichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,2-Dichloropropane	UG/KG	ND	6	ND	6	ND	6	ND	6
cis-1,3-Dichloropropene	UG/KG	ND	6	ND	6	ND	6	ND	6
trans-1,3-Dichloropropene	UG/KG	ND	6	ND	6	ND	6	ND	6
Ethylbenzene	UG/KG	3 J	6	4 J	6	ND	6	2 J	6
2-Hexanone	UG/KG	ND	30	ND	30	ND	30	ND	28
Isopropylbenzene	UG/KG	15	6	18	6	ND	6	9	6
Methyl acetate	UG/KG	ND	6	ND	6	ND	6	ND	6
Methylcyclohexane	UG/KG	4 J	6	3 J	6	ND	6	8	6
Methylene chloride	UG/KG	7	6	8	6	ND	6	ND	6
4-Methyl-2-pentanone	UG/KG	ND	30	ND	30	ND	30	ND	28
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	6	ND	6	ND	6	ND	6
Styrene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1,2,2-Tetrachloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Tetrachloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
Toluene	UG/KG	3 J	6	ND	6	ND	6	ND	6
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1,1-Trichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6
1,1,2-Trichloroethane	UG/KG	ND	6	ND	6	ND	6	ND	6

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:18:43

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		GSB-1 (12-16)		GSB-10 (16-20)		GSB-3 (16-20)		GSB-6 (4-8)	
Job No	Lab ID	A05-2260	A5226002	A05-2260	A5226006	A05-2260	A5226005	A05-2260	A5226001
Sample Date		03/09/2005		03/10/2005		03/09/2005		03/10/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	6	ND	6	ND	6	ND	6
Trichlorofluoromethane	UG/KG	ND	6	ND	6	ND	6	ND	6
Trichloroethene	UG/KG	ND	6	ND	6	ND	6	ND	6
Vinyl chloride	UG/KG	ND	12	18	12	ND	12	ND	11
Total Xylenes	UG/KG	17 J	18	100	18	ND	18	54	17
IS/SURROGATE(S)									
Chlorobenzene-D5	%	120	50-200	85	50-200	79	50-200	79	50-200
1,4-Difluorobenzene	%	113	50-200	84	50-200	81	50-200	80	50-200
1,4-Dichlorobenzene-D4	%	105	50-200	87	50-200	69	50-200	87	50-200
Toluene-D8	%	96	71-125	92	71-125	94	71-125	101	71-125
p-Bromofluorobenzene	%	92	68-124	88	68-124	83	68-124	95	68-124
1,2-Dichloroethane-D4	%	88	61-136	90	61-136	90	61-136	83	61-136

12/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:18:43

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		GSB-7 (12-16)		GSB-9 (4-8)					
Job No	Lab ID	A05-2260	A5226004	A05-2260	A5226003				
Sample Date		03/10/2005		03/09/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	180	29	28 J	30	NA		NA	
Benzene	UG/KG	ND	6	ND	6	NA		NA	
Bromodichloromethane	UG/KG	ND	6	ND	6	NA		NA	
Bromoform	UG/KG	ND	6	ND	6	NA		NA	
Bromomethane	UG/KG	ND	6	ND	6	NA		NA	
2-Butanone	UG/KG	42	29	ND	30	NA		NA	
Carbon Disulfide	UG/KG	1 J	6	ND	6	NA		NA	
Carbon Tetrachloride	UG/KG	ND	6	ND	6	NA		NA	
Chlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
Chloroethane	UG/KG	ND	6	ND	6	NA		NA	
Chloroform	UG/KG	ND	6	ND	6	NA		NA	
Chloromethane	UG/KG	ND	6	ND	6	NA		NA	
Cyclohexane	UG/KG	3 J	6	48	6	NA		NA	
1,2-Dibromoethane	UG/KG	ND	6	ND	6	NA		NA	
Dibromochloromethane	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
Dichlorodifluoromethane	UG/KG	ND	6	ND	6	NA		NA	
1,1-Dichloroethane	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dichloroethane	UG/KG	ND	6	ND	6	NA		NA	
1,1-Dichloroethene	UG/KG	ND	6	ND	6	NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	6	ND	6	NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	6	ND	6	NA		NA	
1,2-Dichloropropane	UG/KG	ND	6	ND	6	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	6	ND	6	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	6	ND	6	NA		NA	
Ethylbenzene	UG/KG	ND	6	ND	6	NA		NA	
2-Hexanone	UG/KG	ND	29	ND	30	NA		NA	
Isopropylbenzene	UG/KG	ND	6	ND	6	NA		NA	
Methyl acetate	UG/KG	ND	6	ND	6	NA		NA	
Methylcyclohexane	UG/KG	ND	6	ND	6	NA		NA	
Methylene chloride	UG/KG	11	6	ND	6	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	29	ND	30	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	6	ND	6	NA		NA	
Styrene	UG/KG	ND	6	ND	6	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	6	ND	6	NA		NA	
Tetrachloroethene	UG/KG	ND	6	ND	6	NA		NA	
Toluene	UG/KG	ND	6	ND	6	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	6	ND	6	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	6	ND	6	NA		NA	

15/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		GSB-7 (12-16)		GSB-9 (4-8)					
Job No	Lab ID	A05-2260	A5226004	A05-2260	A5226003				
Sample Date		03/10/2005		03/09/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	6	ND	6	NA		NA	
Trichlorofluoromethane	UG/KG	ND	6	ND	6	NA		NA	
Trichloroethene	UG/KG	ND	6	ND	6	NA		NA	
Vinyl chloride	UG/KG	ND	12	3 J	12	NA		NA	
Total Xylenes	UG/KG	ND	17	ND	18	NA		NA	
==IS/SURROGATE(S)==									
Chlorobenzene-D5	%	109	50-200	110	50-200	NA		NA	
1,4-Difluorobenzene	%	109	50-200	108	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	99	50-200	97	50-200	NA		NA	
Toluene-D8	%	96	71-125	99	71-125	NA		NA	
p-Bromofluorobenzene	%	88	68-124	88	68-124	NA		NA	
1,2-Dichloroethane-D4	%	86	61-136	85	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:18:43

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		GSB-1		GSB-3		GSB-5		GSB-6	
Job No	Lab ID	A05-2260	A5226011	A05-2260	A5226012	A05-2260	A5226010	A05-2260	A5226009
Sample Date		03/11/2005		03/11/2005		03/11/2005		03/11/2005	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	4.2 J	5.0	ND	5.0	ND	5.0	4.6 J	5.0
Benzene	UG/L	0.57 J	1.0	ND	1.0	0.45 J	1.0	7.9	1.0
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	UG/L	ND	5.0	ND	5.0	ND	5.0	2.9 J	5.0
Carbon Disulfide	UG/L	0.27 J	1.0	0.31 J	1.0	ND	1.0	1.7	1.0
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	UG/L	0.52 J	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	UG/L	ND	1.0	ND	1.0	ND	1.0	0.41 J	1.0
Chloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Cyclohexane	UG/L	2.1	1.0	5.2	1.0	9.9	1.0	23	1.0
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	0.70 J	1.0
1,4-Dichlorobenzene	UG/L	0.32 J	1.0	ND	1.0	ND	1.0	0.72 J	1.0
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	11	1.0	ND	1.0
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	1.4	1.0
2-Hexanone	UG/L	2.0 J	5.0	ND	5.0	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	1.2	1.0	ND	1.0	0.23 J	1.0	4.5	1.0
Methyl acetate	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylcyclohexane	UG/L	0.62 J	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene chloride	UG/L	0.69 J	1.0	ND	1.0	ND	1.0	5.9	1.0
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methyl-t-Butyl Ether (MTBE)	UG/L	0.82 J	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	8.6	1.0	ND	1.0
Toluene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		GSB-1		GSB-3		GSB-5		GSB-6	
Job No	Lab ID	A05-2260	A5226011	A05-2260	A5226012	A05-2260	A5226010	A05-2260	A5226009
Sample Date		03/11/2005		03/11/2005		03/11/2005		03/11/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	UG/L	ND	1.0	ND	1.0	5.5	1.0	ND	1.0
Vinyl chloride	UG/L	ND	1.0	ND	1.0	4.0	1.0	ND	1.0
Total Xylenes	UG/L	0.72 J	3.0	ND	3.0	ND	3.0	13	3.0
====IS/SURROGATE(S)====									
Chlorobenzene-D5	%	88	50-200	89	50-200	90	50-200	89	50-200
1,4-Difluorobenzene	%	88	50-200	89	50-200	91	50-200	91	50-200
1,4-Dichlorobenzene-D4	%	91	50-200	88	50-200	89	50-200	92	50-200
Toluene-D8	%	99	76-116	99	76-116	99	76-116	100	76-116
p-Bromofluorobenzene	%	94	73-117	94	73-117	96	73-117	96	73-117
1,2-Dichloroethane-D4	%	104	72-143	105	72-143	103	72-143	101	72-143

16/89

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:18:43

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		GSB-7		GSB-9					
Job No	Lab ID	A05-2260	A5226008	A05-2260	A5226007				
Sample Date		03/11/2005		03/11/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	4.6 J	5.0	64	5.0	NA		NA	
Benzene	UG/L	0.80 J	1.0	ND	1.0	NA		NA	
Bromodichloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromoform	UG/L	ND	1.0	ND	1.0	NA		NA	
Bromomethane	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Butanone	UG/L	ND	5.0	18	5.0	NA		NA	
Carbon Disulfide	UG/L	1.4	1.0	ND	1.0	NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Chlorobenzene	UG/L	9.7	1.0	ND	1.0	NA		NA	
Chloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloroform	UG/L	ND	1.0	ND	1.0	NA		NA	
Chloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Cyclohexane	UG/L	4.9	1.0	0.91 J	1.0	NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Dibromochloromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,4-Dichlorobenzene	UG/L	2.3	1.0	ND	1.0	NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	ND	1.0	NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	ND	1.0	NA		NA	
Ethylbenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
2-Hexanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Isopropylbenzene	UG/L	1.8	1.0	ND	1.0	NA		NA	
Methyl acetate	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylcyclohexane	UG/L	ND	1.0	ND	1.0	NA		NA	
Methylene chloride	UG/L	0.63 J	1.0	ND	1.0	NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	ND	1.0	NA		NA	
Styrene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Tetrachloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Toluene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	ND	1.0	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:18:43

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		GSB-7		GSB-9					
Job No	Lab ID	A05-2260	A5226008	A05-2260	A5226007				
Sample Date		03/11/2005		03/11/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	ND	1.0	NA		NA	
Trichloroethene	UG/L	ND	1.0	ND	1.0	NA		NA	
Vinyl chloride	UG/L	ND	1.0	ND	1.0	NA		NA	
Total Xylenes	UG/L	ND	3.0	ND	3.0	NA		NA	
=IS/SURROGATE(S)=									
Chlorobenzene-D5	%	86	50-200	87	50-200	NA		NA	
1,4-Difluorobenzene	%	86	50-200	89	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	88	50-200	87	50-200	NA		NA	
Toluene-D8	%	99	76-116	101	76-116	NA		NA	
p-Bromofluorobenzene	%	94	73-117	93	73-117	NA		NA	
1,2-Dichloroethane-D4	%	102	72-143	101	72-143	NA		NA	

18/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:18:57

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Rept: AN0326

Client ID		GSB-1 (12-16)		GSB-1 (12-16) RI		GSB-10 (16-20)		GSB-3 (16-20)	
Job No	Lab ID	A05-2260	A5226002	A05-2260	A5226002RI	A05-2260	A5226006	A05-2260	A5226005
Sample Date		03/09/2005		03/09/2005		03/10/2005		03/09/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	40000	2000	2000	ND	4000	ND	410
Acenaphthylene	UG/KG	ND	40000	1800 J	2000	ND	4000	ND	410
Anthracene	UG/KG	ND	40000	4100	2000	2300 J	4000	ND	410
Benzo(a)anthracene	UG/KG	ND	40000	7600	2000	3000 J	4000	ND	410
Benzo(b)fluoranthene	UG/KG	ND	40000	12000	2000	2700 J	4000	ND	410
Benzo(k)fluoranthene	UG/KG	ND	40000	13000	2000	ND	4000	ND	410
Benzo(ghi)perylene	UG/KG	ND	40000	ND	2000	ND	4000	ND	410
Benzo(a)pyrene	UG/KG	ND	40000	3800	2000	2300 J	4000	ND	410
Chrysene	UG/KG	ND	40000	10000	2000	2600 J	4000	ND	410
Dibenzo(a,h)anthracene	UG/KG	ND	40000	1500 J	2000	ND	4000	ND	410
Fluoranthene	UG/KG	23000 J	40000	23000	2000	8500	4000	ND	410
Fluorene	UG/KG	ND	40000	5100	2000	2000 J	4000	ND	410
Indeno(1,2,3-cd)pyrene	UG/KG	ND	40000	1800 J	2000	ND	4000	ND	410
2-Methylnaphthalene	UG/KG	ND	40000	5400	2000	ND	4000	ND	410
Naphthalene	UG/KG	ND	40000	3900	2000	ND	4000	ND	410
Phenanthrene	UG/KG	26000 J	40000	25000	2000	9200	4000	180 J	410
Pyrene	UG/KG	15000 J	40000	12000	2000	4800	4000	ND	410
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	83	50-200	102	50-200	84	50-200	88	50-200
Naphthalene-D8	%	91	50-200	101	50-200	92	50-200	93	50-200
Acenaphthene-D10	%	93	50-200	91	50-200	93	50-200	91	50-200
Phenanthrene-D10	%	88	50-200	89	50-200	90	50-200	96	50-200
Chrysene-D12	%	111	50-200	123	50-200	124	50-200	141	50-200
Perylene-D12	%	115	50-200	156	50-200	109	50-200	116	50-200
Nitrobenzene-D5	%	85	30-127	67	30-127	73	30-127	76	30-127
2-Fluorobiphenyl	%	96	36-138	80	36-138	84	36-138	92	36-138
p-Terphenyl-d14	%	76	41-167	66	41-167	60	41-167	68	41-167
Phenol-D5	%	68	34-120	62	34-120	65	34-120	73	34-120
2-Fluorophenol	%	67	26-120	49	26-120	56	26-120	60	26-120
2,4,6-Tribromophenol	%	91	42-140	76	42-140	88	42-140	96	42-140

19/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:18:57

, Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Rept: AN0326

Client ID		GSB-6 (4-8)		GSB-6 (4-8) DL		GSB-7 (12-16)		GSB-7 (12-16) RI	
Job No	Lab ID	A05-2260	A5226001	A05-2260	A5226001DL	A05-2260	A5226004	A05-2260	A5226004RI
Sample Date		03/10/2005		03/10/2005		03/10/2005		03/10/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	320 J	430	ND	2200	ND	4200	ND	420
Acenaphthylene	UG/KG	280 J	430	ND	2200	ND	4200	ND	420
Anthracene	UG/KG	ND	430	ND	2200	ND	4200	ND	420
Benzo(a)anthracene	UG/KG	460	430	ND	2200	ND	4200	460	420
Benzo(b)fluoranthene	UG/KG	810	430	ND	2200	ND	4200	830	420
Benzo(k)fluoranthene	UG/KG	910	430	ND	2200	ND	4200	940	420
Benzo(ghi)perylene	UG/KG	ND	430	ND	2200	ND	4200	ND	420
Benzo(a)pyrene	UG/KG	210 J	430	ND	2200	2000 J	4200	1500	420
Chrysene	UG/KG	680	430	ND	2200	ND	4200	570	420
Dibenzo(a,h)anthracene	UG/KG	ND	430	ND	2200	ND	4200	340 J	420
Fluoranthene	UG/KG	1400	430	1500 DJ	2200	ND	4200	300 J	420
Fluorene	UG/KG	630	430	ND	2200	ND	4200	ND	420
Indeno(1,2,3-cd)pyrene	UG/KG	ND	430	ND	2200	ND	4200	300 J	420
2-Methylnaphthalene	UG/KG	13000 E	430	13000 D	2200	ND	4200	ND	420
Naphthalene	UG/KG	3200	430	3400 D	2200	ND	4200	ND	420
Phenanthrene	UG/KG	940	430	1000 DJ	2200	ND	4200	220 J	420
Pyrene	UG/KG	1200	430	980 DJ	2200	ND	4200	280 J	420
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	62	50-200	102	50-200	86	50-200	117	50-200
Naphthalene-D8	%	63	50-200	97	50-200	94	50-200	120	50-200
Acenaphthene-D10	%	71	50-200	89	50-200	97	50-200	116	50-200
Phenanthrene-D10	%	71	50-200	97	50-200	99	50-200	112	50-200
Chrysene-D12	%	89	50-200	141	50-200	122	50-200	177	50-200
Perylene-D12	%	100	50-200	142	50-200	118	50-200	139	50-200
Nitrobenzene-D5	%	120	30-127	101	30-127	77	30-127	58	30-127
2-Fluorobiphenyl	%	73	36-138	87	36-138	88	36-138	75	36-138
p-Terphenyl-d14	%	68	41-167	66	41-167	73	41-167	58	41-167
Phenol-D5	%	63	34-120	62	34-120	70	34-120	55	34-120
2-Fluorophenol	%	53	26-120	51	26-120	62	26-120	38	26-120
2,4,6-Tribromophenol	%	87	42-140	86	42-140	96	42-140	85	42-140

20/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		GSB-9 (4-8)		GSB-9 (4-8) RI					
Job No	Lab ID	A05-2260	A5226003	A05-2260	A5226003RI				
Sample Date		03/09/2005		03/09/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	4200	ND	420	NA		NA	
Acenaphthylene	UG/KG	ND	4200	ND	420	NA		NA	
Anthracene	UG/KG	ND	4200	ND	420	NA		NA	
Benzo(a)anthracene	UG/KG	ND	4200	350 J	420	NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	4200	560	420	NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	4200	630	420	NA		NA	
Benzo(ghi)perylene	UG/KG	ND	4200	ND	420	NA		NA	
Benzo(a)pyrene	UG/KG	ND	4200	280 J	420	NA		NA	
Chrysene	UG/KG	ND	4200	360 J	420	NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	4200	ND	420	NA		NA	
Fluoranthene	UG/KG	ND	4200	890	420	NA		NA	
Fluorene	UG/KG	ND	4200	ND	420	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	4200	ND	420	NA		NA	
2-Methylnaphthalene	UG/KG	ND	4200	690	420	NA		NA	
Naphthalene	UG/KG	ND	4200	140 J	420	NA		NA	
Phenanthrene	UG/KG	ND	4200	520	420	NA		NA	
Pyrene	UG/KG	ND	4200	530	420	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	83	50-200	122	50-200	NA		NA	
Naphthalene-D8	%	90	50-200	118	50-200	NA		NA	
Acenaphthene-D10	%	89	50-200	107	50-200	NA		NA	
Phenanthrene-D10	%	88	50-200	103	50-200	NA		NA	
Chrysene-D12	%	116	50-200	158	50-200	NA		NA	
Perylene-D12	%	116	50-200	181	50-200	NA		NA	
Nitrobenzene-D5	%	77	30-127	55	30-127	NA		NA	
2-Fluorobiphenyl	%	94	36-138	68	36-138	NA		NA	
p-Terphenyl-d14	%	67	41-167	51	41-167	NA		NA	
Phenol-D5	%	71	34-120	50	34-120	NA		NA	
2-Fluorophenol	%	61	26-120	37	26-120	NA		NA	
2,4,6-Tribromophenol	%	95	42-140	68	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:18:57

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Rept: AN0326

Client ID		GSB-1		GSB-3		GSB-5		GSB-6	
Job No	Lab ID	A05-2260	A5226011	A05-2260	A5226012	A05-2260	A5226010	A05-2260	A5226009
Sample Date		03/11/2005		03/11/2005		03/11/2005		03/11/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	ND	12	3 J	10	5 J	11
Acenaphthylene	UG/L	ND	10	ND	12	ND	10	ND	11
Anthracene	UG/L	ND	10	ND	12	ND	10	ND	11
Benzo(a)anthracene	UG/L	ND	10	ND	12	ND	10	3 J	11
Benzo(b)fluoranthene	UG/L	ND	10	ND	12	ND	10	4 J	11
Benzo(k)fluoranthene	UG/L	ND	10	ND	12	ND	10	ND	11
Benzo(ghi)perylene	UG/L	ND	10	ND	12	ND	10	ND	11
Benzo(a)pyrene	UG/L	ND	10	ND	12	ND	10	ND	11
Chrysene	UG/L	ND	10	ND	12	2 J	10	3 J	11
Dibenzo(a,h)anthracene	UG/L	ND	10	ND	12	ND	10	ND	11
Fluoranthene	UG/L	ND	10	ND	12	5 J	10	8 J	11
Fluorene	UG/L	ND	10	ND	12	2 J	10	3 J	11
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	12	ND	10	ND	11
2-Methylnaphthalene	UG/L	ND	10	ND	12	ND	10	7 J	11
Naphthalene	UG/L	ND	10	ND	12	ND	10	16	11
Phenanthrene	UG/L	ND	10	ND	12	5 J	10	6 J	11
Pyrene	UG/L	ND	10	ND	12	3 J	10	5 J	11
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	89	50-200	88	50-200	84	50-200	86	50-200
Naphthalene-D8	%	95	50-200	96	50-200	90	50-200	90	50-200
Acenaphthene-D10	%	92	50-200	99	50-200	92	50-200	92	50-200
Phenanthrene-D10	%	96	50-200	103	50-200	97	50-200	93	50-200
Chrysene-D12	%	136	50-200	144	50-200	130	50-200	130	50-200
Perylene-D12	%	119	50-200	119	50-200	115	50-200	114	50-200
Nitrobenzene-D5	%	86	34-121	74	34-121	91	34-121	82	34-121
2-Fluorobiphenyl	%	98	42-126	79	42-126	103	42-126	92	42-126
p-Terphenyl-d14	%	55	36-145	42	36-145	68	36-145	53	36-145
Phenol-D5	%	32	10-110	33	10-110	29	10-110	31	10-110
2-Fluorophenol	%	46	14-120	46	14-120	43	14-120	43	14-120
2,4,6-Tribromophenol	%	104	42-158	92	42-158	115	42-158	104	42-158

22/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		GSB-7							
Job No	Lab ID	A05-2260	A5226008						
Sample Date		03/11/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	2 J	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	86	50-200	NA		NA		NA	
Naphthalene-D8	%	91	50-200	NA		NA		NA	
Acenaphthene-D10	%	92	50-200	NA		NA		NA	
Phenanthrene-D10	%	95	50-200	NA		NA		NA	
Chrysene-D12	%	135	50-200	NA		NA		NA	
Perylene-D12	%	113	50-200	NA		NA		NA	
Nitrobenzene-D5	%	69	34-121	NA		NA		NA	
2-Fluorobiphenyl	%	74	42-126	NA		NA		NA	
p-Terphenyl-d14	%	38	36-145	NA		NA		NA	
Phenol-D5	%	28	10-110	NA		NA		NA	
2-Fluorophenol	%	41	14-120	NA		NA		NA	
2,4,6-Tribromophenol	%	83	42-158	NA		NA		NA	

NA = Not Applicable ND = Not Detected

23/89

Date: 03/24/2005
Time: 16:19:02

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID		GSB-1 (12-16)		GSB-10 (16-20)		GSB-3 (16-20)		GSB-6 (4-8)	
Job No	Lab ID	A05-2260	A5226002	A05-2260	A5226006	A05-2260	A5226005	A05-2260	A5226001
Sample Date		03/09/2005		03/10/2005		03/09/2005		03/10/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	20	ND	20	ND	21	ND	22
Aroclor 1221	UG/KG	ND	20	ND	20	ND	21	ND	22
Aroclor 1232	UG/KG	ND	20	ND	20	ND	21	ND	22
Aroclor 1242	UG/KG	ND	20	ND	20	340	21	ND	22
Aroclor 1248	UG/KG	ND	20	ND	20	ND	21	ND	22
Aroclor 1254	UG/KG	ND	20	ND	20	220	21	420	22
Aroclor 1260	UG/KG	ND	20	ND	20	ND	21	ND	22
SURROGATE(S)									
Tetrachloro-m-xylene	%	66	32-148	74	32-148	65	32-148	44	32-148
Decachlorobiphenyl	%	368 *	36-153	140	36-153	91	36-153	98	36-153

Client ID		GSB-7 (12-16)		GSB-9 (4-8)					
Job No	Lab ID	A05-2260	A5226004	A05-2260	A5226003				
Sample Date		03/10/2005		03/09/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1221	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1232	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1242	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1248	UG/KG	ND	21	ND	430	NA		NA	
Aroclor 1254	UG/KG	ND	21	3000	430	NA		NA	
Aroclor 1260	UG/KG	ND	21	ND	430	NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	151 *	32-148	0 D	32-148	NA		NA	
Decachlorobiphenyl	%	0 *	36-153	0 D	36-153	NA		NA	

24/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:19:02

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID		GSB-1		GSB-5		GSB-7			
Job No	Lab ID	A05-2260	A5226011	A05-2260	A5226010	A05-2260	A5226008		
Sample Date		03/11/2005		03/11/2005		03/11/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1221	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1232	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1242	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1248	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1254	UG/L	0.32 J	0.48	ND	0.49	ND	0.50	NA	
Aroclor 1260	UG/L	ND	0.48	ND	0.49	ND	0.50	NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	68	36-132	78	36-132	64	36-132	NA	
Decachlorobiphenyl	%	37	28-132	54	28-132	189 *	28-132	NA	

25/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:19:06

Delta Environmental Consultants, Inc.
Binghamton Project
TOTAL RCRA METALS

Rept: AN0326

Client ID		GSB-1 (12-16)		GSB-10 (16-20)		GSB-3 (16-20)		GSB-6 (4-8)	
Job No	Lab ID	A05-2260	A5226002	A05-2260	A5226006	A05-2260	A5226005	A05-2260	A5226001
Sample Date		03/09/2005		03/10/2005		03/09/2005		03/10/2005	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	5.1	2.4	5.0	2.4	7.3	2.4	76.2	2.6
Barium - Total	MG/KG	148	0.61	140	0.60	332	0.61	304	0.65
Cadmium - Total	MG/KG	ND	0.24	ND	0.24	0.71	0.24	2.2	0.26
Chromium - Total	MG/KG	16.6	0.61	24.8	0.60	38.8	0.61	39.1	0.65
Lead - Total	MG/KG	208	1.2	233	1.2	1200	1.2	863	1.3
Mercury - Total	MG/KG	0.30	0.023	0.34	0.025	0.23	0.026	3.5	0.27
Selenium - Total	MG/KG	ND	4.9	ND	4.8	ND	4.9	68.8	5.2
Silver - Total	MG/KG	2.7	0.61	10.6	0.60	12.8	0.61	ND	0.65

Client ID		GSB-7 (12-16)		GSB-9 (4-8)					
Job No	Lab ID	A05-2260	A5226004	A05-2260	A5226003				
Sample Date		03/10/2005		03/09/2005					

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	4.6	2.4	7.9	2.6	NA		NA	
Barium - Total	MG/KG	57.1	0.61	529	0.65	NA		NA	
Cadmium - Total	MG/KG	ND	0.24	2.0	0.26	NA		NA	
Chromium - Total	MG/KG	17.8	0.61	25.9	0.65	NA		NA	
Lead - Total	MG/KG	98.9	1.2	1110	1.3	NA		NA	
Mercury - Total	MG/KG	0.30	0.024	0.34	0.024	NA		NA	
Selenium - Total	MG/KG	ND	4.9	ND	5.2	NA		NA	
Silver - Total	MG/KG	ND	0.61	28.5	0.65	NA		NA	

26/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - RCRA METALS - W

Client ID		GSB-1		GSB-5		GSB-7			
Job No	Lab ID	A05-2260	A5226011	A05-2260	A5226010	A05-2260	A5226008		
Sample Date		03/11/2005		03/11/2005		03/11/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	0.14	0.010	ND	0.010	0.10	0.010	NA	
Barium - Total	MG/L	3.6	0.0020	0.17	0.0020	1.7	0.0020	NA	
Cadmium - Total	MG/L	0.015	0.0010	ND	0.0010	0.0015	0.0010	NA	
Chromium - Total	MG/L	0.21	0.0040	0.0088	0.0040	0.19	0.0040	NA	
Lead - Total	MG/L	4.0	0.0050	0.030	0.0050	1.5	0.0050	NA	
Mercury - Total	MG/L	0.050	0.0020	ND	0.00020	0.017	0.00020	NA	
Selenium - Total	MG/L	ND	0.015	ND	0.015	ND	0.015	NA	
Silver - Total	MG/L	0.088	0.0030	ND	0.0030	0.0041	0.0030	NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Batch Quality Control Data

Date: 03/18/2005 15:40:39
Batch No: A5B03478

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5226001 A5226001MS A5226001SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL RCRA METALS TOTAL MERCURY	MG/KG	3.47	4.21	4.43	0.404	0.439	184 *	220 *	202	18	20.0	80-120

29/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date: 03/18/2005 15:40:39
Batch No: A5B03347

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5226008 A5226008MS A5226008SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
DELTA - RCRA METALS - W												
DELTA - TOTAL ARSENIC - W	MG/L	0.102	0.268	0.251	0.200	0.200	83	75	79	10	20.0	75-125
DELTA - TOTAL BARIUM - W	MG/L	1.68	1.89	1.81	0.200	0.200	102	63 *	83	47 *	20.0	80-120
DELTA - TOTAL CADMIUM - W	MG/L	0.00150	0.152	0.145	0.200	0.200	75 *	72 *	74	4	20.0	80-120
DELTA - TOTAL CHROMIUM - W	MG/L	0.190	0.346	0.326	0.200	0.200	78 *	68 *	73	14	20.0	80-120
DELTA - TOTAL LEAD - W	MG/L	1.52	1.69	1.62	0.200	0.200	88	50 *	69	55 *	20.0	80-120
DELTA - TOTAL SELENIUM - W	MG/L	0.0133	0.159	0.153	0.200	0.200	73 *	70 *	72	4	20.0	80-120
DELTA - TOTAL SILVER - W	MG/L	0.00410	0.0429	0.0419	0.0500	0.0500	78	76	77	2	20.0	75-125

30/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date: 03/18/2005 15:40:39
Batch No: A5B03478

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5234301 A5234301MS A5234301SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS TOTAL MERCURY	MG/KG	0.0211	0.381	0.362	0.408	0.391	88	87	88	1	20.0	80-120

31/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Client ID		VBLK82		VBLK83		VBLK84			
Job No	Lab ID	A05-2260	A5B0352902	A05-2260	A5B0352903	A05-2260	A5B0358702		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	ND	25	NA	
Benzene	UG/KG	ND	5	ND	5	ND	5	NA	
Bromodichloromethane	UG/KG	ND	5	ND	5	ND	5	NA	
Bromoform	UG/KG	ND	5	ND	5	ND	5	NA	
Bromomethane	UG/KG	1 J	5	ND	5	1 J	5	NA	
2-Butanone	UG/KG	ND	25	ND	25	ND	25	NA	
Carbon Disulfide	UG/KG	ND	5	ND	5	ND	5	NA	
Carbon Tetrachloride	UG/KG	ND	5	ND	5	ND	5	NA	
Chlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
Chloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
Chloroform	UG/KG	ND	5	ND	5	ND	5	NA	
Chloromethane	UG/KG	ND	5	ND	5	ND	5	NA	
Cyclohexane	UG/KG	ND	5	ND	5	ND	5	NA	
1,2-Dibromoethane	UG/KG	ND	5	ND	5	ND	5	NA	
Dibromochloromethane	UG/KG	ND	5	ND	5	ND	5	NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	ND	5	NA	
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
1,4-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
Dichlorodifluoromethane	UG/KG	ND	5	ND	5	ND	5	NA	
1,1-Dichloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
1,2-Dichloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
1,1-Dichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
1,2-Dichloropropane	UG/KG	ND	5	ND	5	ND	5	NA	
cis-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND	5	NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND	5	NA	
Ethylbenzene	UG/KG	ND	5	ND	5	ND	5	NA	
2-Hexanone	UG/KG	ND	25	ND	25	ND	25	NA	
Isopropylbenzene	UG/KG	ND	5	ND	5	ND	5	NA	
Methyl acetate	UG/KG	ND	5	ND	5	ND	5	NA	
Methylcyclohexane	UG/KG	ND	5	ND	5	ND	5	NA	
Methylene chloride	UG/KG	ND	5	ND	5	ND	5	NA	
4-Methyl-2-pentanone	UG/KG	ND	25	ND	25	ND	25	NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	ND	5	ND	5	NA	
Styrene	UG/KG	ND	5	ND	5	ND	5	NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
Tetrachloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
Toluene	UG/KG	ND	5	ND	5	ND	5	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	ND	5	NA	
1,1,1-Trichloroethane	UG/KG	ND	5	ND	5	ND	5	NA	
1,1,2-Trichloroethane	UG/KG	ND	5	ND	5	ND	5	NA	

NA = Not Applicable ND = Not Detected

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client ID		VBLK82		VBLK83		VBLK84			
Job No	Lab ID	A05-2260	A5B0352902	A05-2260	A5B0352903	A05-2260	A5B0358702		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	5	ND	5	ND	5	NA	
Trichlorofluoromethane	UG/KG	ND	5	ND	5	ND	5	NA	
Trichloroethene	UG/KG	ND	5	ND	5	ND	5	NA	
Vinyl chloride	UG/KG	ND	10	ND	10	ND	10	NA	
Total Xylenes	UG/KG	ND	15	ND	15	ND	15	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	80	50-200	82	50-200	85	50-200	NA	
1,4-Difluorobenzene	%	80	50-200	81	50-200	88	50-200	NA	
1,4-Dichlorobenzene-D4	%	71	50-200	72	50-200	76	50-200	NA	
Toluene-D8	%	99	71-125	99	71-125	96	71-125	NA	
p-Bromofluorobenzene	%	84	68-124	87	68-124	86	68-124	NA	
1,2-Dichloroethane-D4	%	87	61-136	77	61-136	85	61-136	NA	

NA = Not Applicable ND = Not Detected

Client ID		VBLK75							
Job No	Lab ID	A05-2260	A5B0354702						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Cyclohexane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	1.0	NA		NA		NA	
Methyl acetate	UG/L	ND	1.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	1.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		VBLK75							
Job No	Lab ID	A05-2260	A5B0354702						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
======IS/SURROGATE(S)======									
Chlorobenzene-D5	%	91	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	91	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	88	50-200	NA		NA		NA	
Toluene-D8	%	99	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	94	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	106	72-143	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:25

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Rept: AN0326

Client ID		MSB83		MSB84					
Job No	Lab ID	A05-2260	A5B0352901	A05-2260	A5B0358701				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	ND	25	NA		NA	
Benzene	UG/KG	45	5	50	5	NA		NA	
Bromodichloromethane	UG/KG	ND	5	ND	5	NA		NA	
Bromoform	UG/KG	ND	5	ND	5	NA		NA	
Bromomethane	UG/KG	2 J	5	2 BJ	5	NA		NA	
2-Butanone	UG/KG	ND	25	ND	25	NA		NA	
Carbon Disulfide	UG/KG	ND	5	ND	5	NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	ND	5	NA		NA	
Chlorobenzene	UG/KG	48	5	49	5	NA		NA	
Chloroethane	UG/KG	ND	5	ND	5	NA		NA	
Chloroform	UG/KG	ND	5	ND	5	NA		NA	
Chloromethane	UG/KG	ND	5	ND	5	NA		NA	
Cyclohexane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dibromoethane	UG/KG	ND	5	ND	5	NA		NA	
Dibromochloromethane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
Dichlorodifluoromethane	UG/KG	ND	5	ND	5	NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,1-Dichloroethene	UG/KG	36	5	53	5	NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	NA		NA	
1,2-Dichloropropane	UG/KG	ND	5	ND	5	NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	5	ND	5	NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	NA		NA	
Ethylbenzene	UG/KG	ND	5	ND	5	NA		NA	
2-Hexanone	UG/KG	ND	25	ND	25	NA		NA	
Isopropylbenzene	UG/KG	ND	5	ND	5	NA		NA	
Methyl acetate	UG/KG	ND	5	ND	5	NA		NA	
Methylcyclohexane	UG/KG	ND	5	ND	5	NA		NA	
Methylene chloride	UG/KG	ND	5	ND	5	NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	25	ND	25	NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/KG	ND	5	ND	5	NA		NA	
Styrene	UG/KG	ND	5	ND	5	NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	ND	5	NA		NA	
Tetrachloroethene	UG/KG	ND	5	ND	5	NA		NA	
Toluene	UG/KG	48	5	49	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	ND	5	NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	5	ND	5	NA		NA	

5/1/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		MSB83		MSB84					
Job No	Lab ID	A05-2260	A5B0352901	A05-2260	A5B0358701				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	5	ND	5	NA		NA	
Trichlorofluoromethane	UG/KG	ND	5	ND	5	NA		NA	
Trichloroethene	UG/KG	44	5	49	5	NA		NA	
Vinyl chloride	UG/KG	ND	10	ND	10	NA		NA	
Total Xylenes	UG/KG	ND	15	ND	15	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	87	50-200	93	50-200	NA		NA	
1,4-Difluorobenzene	%	87	50-200	93	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	77	50-200	86	50-200	NA		NA	
Toluene-D8	%	97	71-125	93	71-125	NA		NA	
p-Bromofluorobenzene	%	86	68-124	85	68-124	NA		NA	
1,2-Dichloroethane-D4	%	87	61-136	86	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB75							
Job No	Lab ID	A05-2260	A5B0354701						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	40	5.0	NA		NA		NA	
Benzene	UG/L	10	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	10	1.0	NA		NA		NA	
Bromoform	UG/L	10	1.0	NA		NA		NA	
Bromomethane	UG/L	8.1	1.0	NA		NA		NA	
2-Butanone	UG/L	51	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	6.6	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	10	1.0	NA		NA		NA	
Chlorobenzene	UG/L	9.8	1.0	NA		NA		NA	
Chloroethane	UG/L	8.9	1.0	NA		NA		NA	
Chloroform	UG/L	10	1.0	NA		NA		NA	
Chloromethane	UG/L	8.3	1.0	NA		NA		NA	
Cyclohexane	UG/L	9.8	1.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	10	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	10	1.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	10	1.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	9.8	1.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	9.8	1.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	9.8	1.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	10	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	10	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	11	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	8.9	1.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	10	1.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	9.7	1.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	10	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	10	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	10	1.0	NA		NA		NA	
Ethylbenzene	UG/L	10	1.0	NA		NA		NA	
2-Hexanone	UG/L	52	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	10	1.0	NA		NA		NA	
Methyl acetate	UG/L	6.4	1.0	NA		NA		NA	
Methylcyclohexane	UG/L	9.9	1.0	NA		NA		NA	
Methylene chloride	UG/L	9.2	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	52	5.0	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	10	1.0	NA		NA		NA	
Styrene	UG/L	10	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	9.8	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	10	1.0	NA		NA		NA	
Toluene	UG/L	9.8	1.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	10	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	10	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	9.8	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB75							
Job No	Lab ID	A05-2260	A5B0354701						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	8.4	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	9.6	1.0	NA		NA		NA	
Trichloroethene	UG/L	9.9	1.0	NA		NA		NA	
Vinyl chloride	UG/L	9.1	1.0	NA		NA		NA	
Total Xylenes	UG/L	30	3.0	NA		NA		NA	
==IS/SURROGATE(S)==									
Chlorobenzene-D5	%	91	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	89	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	94	50-200	NA		NA		NA	
Toluene-D8	%	99	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	96	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	104	72-143	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client ID	TRIP BLANK							
Job No Lab ID	A05-2260 A5226013							
Sample Date	03/11/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	1.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	1.0	NA		NA		NA	
Bromoform	UG/L	ND	1.0	NA		NA		NA	
Bromomethane	UG/L	ND	1.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	1.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	1.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Chloroethane	UG/L	ND	1.0	NA		NA		NA	
Chloroform	UG/L	ND	1.0	NA		NA		NA	
Chloromethane	UG/L	ND	1.0	NA		NA		NA	
Cyclohexane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	1.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	1.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	1.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	1.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	1.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	1.0	NA		NA		NA	
Methyl acetate	UG/L	ND	1.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	1.0	NA		NA		NA	
Methylene chloride	UG/L	ND	1.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	UG/L	ND	1.0	NA		NA		NA	
Styrene	UG/L	ND	1.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	1.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	1.0	NA		NA		NA	
Toluene	UG/L	ND	1.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	1.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		TRIP BLANK							
Job No	Lab ID	A05-2260	A5226013						
Sample Date		03/11/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	1.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	1.0	NA		NA		NA	
Trichloroethene	UG/L	ND	1.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	3.0	NA		NA		NA	
=====IS/SURROGATE(S)=====									
Chlorobenzene-D5	%	83	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	85	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	79	50-200	NA		NA		NA	
Toluene-D8	%	101	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	94	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	103	72-143	NA		NA		NA	

42/89

NA = Not Applicable ND = Not Detected

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client ID		SBLK							
Job No	Lab ID	A05-2260	A5B0334302						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	ND	320	NA		NA		NA	
Acenaphthylene	UG/KG	ND	320	NA		NA		NA	
Anthracene	UG/KG	ND	320	NA		NA		NA	
Benzo(a)anthracene	UG/KG	ND	320	NA		NA		NA	
Benzo(b)fluoranthene	UG/KG	ND	320	NA		NA		NA	
Benzo(k)fluoranthene	UG/KG	ND	320	NA		NA		NA	
Benzo(ghi)perylene	UG/KG	ND	320	NA		NA		NA	
Benzo(a)pyrene	UG/KG	ND	320	NA		NA		NA	
Chrysene	UG/KG	ND	320	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/KG	ND	320	NA		NA		NA	
Fluoranthene	UG/KG	ND	320	NA		NA		NA	
Fluorene	UG/KG	ND	320	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	320	NA		NA		NA	
2-Methylnaphthalene	UG/KG	ND	320	NA		NA		NA	
Naphthalene	UG/KG	ND	320	NA		NA		NA	
Phenanthrene	UG/KG	ND	320	NA		NA		NA	
Pyrene	UG/KG	ND	320	NA		NA		NA	
==========IS/SURROGATE(S)==========									
1,4-Dichlorobenzene-D4	%	98	50-200	NA		NA		NA	
Naphthalene-D8	%	103	50-200	NA		NA		NA	
Acenaphthene-D10	%	104	50-200	NA		NA		NA	
Phenanthrene-D10	%	101	50-200	NA		NA		NA	
Chrysene-D12	%	116	50-200	NA		NA		NA	
Perylene-D12	%	136	50-200	NA		NA		NA	
Nitrobenzene-D5	%	84	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	95	36-138	NA		NA		NA	
p-Terphenyl-d14	%	86	41-167	NA		NA		NA	
Phenol-D5	%	81	34-120	NA		NA		NA	
2-Fluorophenol	%	74	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	96	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:39

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Rept: AN0326

Client ID		SBLK							
Job No	Lab ID	A05-2260	A580334503						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	84	50-200	NA		NA		NA	
Naphthalene-D8	%	91	50-200	NA		NA		NA	
Acenaphthene-D10	%	92	50-200	NA		NA		NA	
Phenanthrene-D10	%	96	50-200	NA		NA		NA	
Chrysene-D12	%	129	50-200	NA		NA		NA	
Perylene-D12	%	109	50-200	NA		NA		NA	
Nitrobenzene-D5	%	85	34-121	NA		NA		NA	
2-Fluorobiphenyl	%	99	42-126	NA		NA		NA	
p-Terphenyl-d14	%	86	36-145	NA		NA		NA	
Phenol-D5	%	29	10-110	NA		NA		NA	
2-Fluorophenol	%	42	14-120	NA		NA		NA	
2,4,6-Tribromophenol	%	120	42-158	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:19:39

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Rept: AN0326

Client ID		GSB-6 (4-8)		GSB-6 (4-8)		Matrix Spike Blank			
Job No	Lab ID	A05-2260	A5226001MS	A05-2260	A5226001SD	A05-2260	A5B0334301		
Sample Date		03/10/2005		03/10/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/KG	3400	430	3300	430	2800	320	NA	
Acenaphthylene	UG/KG	270 J	430	240 J	430	ND	320	NA	
Anthracene	UG/KG	ND	430	ND	430	ND	320	NA	
Benzo(a)anthracene	UG/KG	400 J	430	370 J	430	ND	320	NA	
Benzo(b)fluoranthene	UG/KG	830	430	780	430	ND	320	NA	
Benzo(k)fluoranthene	UG/KG	940	430	880	430	ND	320	NA	
Benzo(ghi)perylene	UG/KG	ND	430	ND	430	ND	320	NA	
Benzo(a)pyrene	UG/KG	200 J	430	200 J	430	ND	320	NA	
Chrysene	UG/KG	650	430	600	430	ND	320	NA	
Dibenzo(a,h)anthracene	UG/KG	ND	430	ND	430	ND	320	NA	
Fluoranthene	UG/KG	1400	430	1500	430	ND	320	NA	
Fluorene	UG/KG	570	430	520	430	ND	320	NA	
Indeno(1,2,3-cd)pyrene	UG/KG	ND	430	ND	430	ND	320	NA	
2-Methylnaphthalene	UG/KG	12000 E	430	11000 E	430	ND	320	NA	
Naphthalene	UG/KG	3200	430	2800	430	ND	320	NA	
Phenanthrene	UG/KG	830	430	810	430	ND	320	NA	
Pyrene	UG/KG	3500	430	3200	430	2800	320	NA	
========IS/SURROGATE(S)==========									
1,4-Dichlorobenzene-D4	%	90	50-200	86	50-200	97	50-200	NA	
Naphthalene-D8	%	93	50-200	88	50-200	103	50-200	NA	
Acenaphthene-D10	%	102	50-200	97	50-200	105	50-200	NA	
Phenanthrene-D10	%	105	50-200	101	50-200	102	50-200	NA	
Chrysene-D12	%	155	50-200	164	50-200	114	50-200	NA	
Perylene-D12	%	153	50-200	136	50-200	136	50-200	NA	
Nitrobenzene-D5	%	118	30-127	114	30-127	78	30-127	NA	
2-Fluorobiphenyl	%	76	36-138	74	36-138	90	36-138	NA	
p-Terphenyl-d14	%	60	41-167	55	41-167	84	41-167	NA	
Phenol-D5	%	64	34-120	59	34-120	75	34-120	NA	
2-Fluorophenol	%	55	26-120	51	26-120	69	26-120	NA	
2,4,6-Tribromophenol	%	83	42-140	79	42-140	96	42-140	NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		Matrix Spike Blank		Matrix Spike Blk Dup					
Job No / Lab ID		A05-2260	A5B0334501	A05-2260	A5B0334502				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	90	10	84	10	NA		NA	
Acenaphthylene	UG/L	ND	10	ND	10	NA		NA	
Anthracene	UG/L	ND	10	ND	10	NA		NA	
Benzo(a)anthracene	UG/L	ND	10	ND	10	NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	ND	10	NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	ND	10	NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	ND	10	NA		NA	
Benzo(a)pyrene	UG/L	ND	10	ND	10	NA		NA	
Chrysene	UG/L	ND	10	ND	10	NA		NA	
Dibenzo(a,h)anthracene	UG/L	ND	10	ND	10	NA		NA	
Fluoranthene	UG/L	ND	10	ND	10	NA		NA	
Fluorene	UG/L	ND	10	ND	10	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	10	NA		NA	
2-Methylnaphthalene	UG/L	ND	10	ND	10	NA		NA	
Naphthalene	UG/L	ND	10	ND	10	NA		NA	
Phenanthrene	UG/L	ND	10	ND	10	NA		NA	
Pyrene	UG/L	86	10	84	10	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	82	50-200	83	50-200	NA		NA	
Naphthalene-D8	%	90	50-200	92	50-200	NA		NA	
Acenaphthene-D10	%	95	50-200	96	50-200	NA		NA	
Phenanthrene-D10	%	95	50-200	96	50-200	NA		NA	
Chrysene-D12	%	123	50-200	129	50-200	NA		NA	
Perylene-D12	%	102	50-200	108	50-200	NA		NA	
Nitrobenzene-D5	%	90	34-121	80	34-121	NA		NA	
2-Fluorobiphenyl	%	99	42-126	90	42-126	NA		NA	
p-Terphenyl-d14	%	79	36-145	78	36-145	NA		NA	
Phenol-D5	%	31	10-110	29	10-110	NA		NA	
2-Fluorophenol	%	44	14-120	41	14-120	NA		NA	
2,4,6-Tribromophenol	%	116	42-158	111	42-158	NA		NA	

NA = Not Applicable ND = Not Detected

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID		Method Blank							
Job No	Lab ID	A05-2260	A5B0337302						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	
Aroclor 1221	UG/KG	ND	16	NA		NA		NA	
Aroclor 1232	UG/KG	ND	16	NA		NA		NA	
Aroclor 1242	UG/KG	ND	16	NA		NA		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA		NA	
Aroclor 1254	UG/KG	ND	16	NA		NA		NA	
Aroclor 1260	UG/KG	ND	16	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	82	32-148	NA		NA		NA	
Decachlorobiphenyl	%	88	36-153	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:44

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID		Method Blank							
Job No	Lab ID	A05-2260	A5B0337802						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1221	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1232	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1242	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1248	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1254	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1260	UG/L	ND	0.50	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	70	36-132	NA		NA		NA	
Decachlorobiphenyl	%	68	28-132	NA		NA		NA	

48/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A05-2260 A5B0337301							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/KG	ND	16	NA		NA		NA	
Aroclor 1221	UG/KG	ND	16	NA		NA		NA	
Aroclor 1232	UG/KG	ND	16	NA		NA		NA	
Aroclor 1242	UG/KG	ND	16	NA		NA		NA	
Aroclor 1248	UG/KG	ND	16	NA		NA		NA	
Aroclor 1254	UG/KG	160	16	NA		NA		NA	
Aroclor 1260	UG/KG	ND	16	NA		NA		NA	
=SURROGATE(S)=									
Tetrachloro-m-xylene	%	82	32-148	NA		NA		NA	
Decachlorobiphenyl	%	84	36-153	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 03/24/2005
Time: 16:19:44

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-2260	A5B0337801						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	4.5	0.50	NA		NA		NA	
Aroclor 1221	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1232	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1242	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1248	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1254	UG/L	ND	0.50	NA		NA		NA	
Aroclor 1260	UG/L	4.6	0.50	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	70	36-132	NA		NA		NA	
Decachlorobiphenyl	%	69	28-132	NA		NA		NA	

50/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Delta Environmental Consultants, Inc.
Binghamton Project
TOTAL RCRA METALS

Client ID Job No Sample Date	Lab ID	Method Blank A05-2260	A5B0334602	Method Blank A05-2260	A5B0347802				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Selenium - Total	MG/KG	ND	4.0	NA		NA		NA	
Arsenic - Total	MG/KG	ND	2.0	NA		NA		NA	
Barium - Total	MG/KG	ND	0.50	NA		NA		NA	
Cadmium - Total	MG/KG	ND	0.20	NA		NA		NA	
Chromium - Total	MG/KG	ND	0.50	NA		NA		NA	
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	
Silver - Total	MG/KG	ND	0.50	NA		NA		NA	
Mercury - Total	MG/KG	NA		ND	0.020	NA		NA	

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:49

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA ~ RCRA METALS - W

Rept: AN0326

Client ID Job No Lab ID Sample Date		Method Blank A05-2260 A5B0334702		Method Blank A05-2260 A5B0339202					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Barium - Total	MG/L	ND	0.0020	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0040	NA		NA		NA	
Lead - Total	MG/L	ND	0.0050	NA		NA		NA	
Mercury - Total	MG/L	NA		ND	0.00020	NA		NA	
Selenium - Total	MG/L	ND	0.015	NA		NA		NA	
Silver - Total	MG/L	ND	0.0030	NA		NA		NA	

52/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Delta Environmental Consultants, Inc.
Binghamton Project
TOTAL RCRA METALS

Client ID / Job No / Sample Date	Lab ID	GSB-6 (4-8) A05-2260 03/10/2005	A5226001MS	GSB-6 (4-8) A05-2260 03/10/2005	A5226001SD	LCS A05-2260	A5B0347801	LCS CLP Soils A05-2260	A5B0334601
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/KG	53.0	2.6	70.2	2.6	NA		276	2.0
Barium - Total	MG/KG	173	0.66	270	0.65	NA		268	0.50
Cadmium - Total	MG/KG	19.5	0.26	17.4	0.26	NA		83.1	0.20
Chromium - Total	MG/KG	44.9	0.66	90.4	0.65	NA		95.5	0.50
Lead - Total	MG/KG	577	1.3	1100	1.3	NA		98.2	1.0
Mercury - Total	MG/KG	4.2	0.24	4.4	0.26	1.9	0.10	NA	
Selenium - Total	MG/KG	36.7	5.3	50.3	5.2	NA		79.9	4.0
Silver - Total	MG/KG	5.1	0.66	4.7	0.65	NA		89.7	0.50

NA = Not Applicable ND = Not Detected

Date: 03/24/2005
Time: 16:19:49

Delta Environmental Consultants, Inc.
Binghamton Project
DELTA - RCRA METALS - W

Rept: AN0326

Client ID / Job No / Sample Date	Lab ID	GSB-7 A05-2260 03/11/2005	A5226008MS	GSB-7 A05-2260 03/11/2005	A5226008SD	LCS A05-2260	A5B0339201	LFB A05-2260	A5B0334701
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	0.27	0.010	0.25	0.010	NA		0.21	0.010
Barium - Total	MG/L	1.9	0.0020	1.8	0.0020	NA		0.20	0.0020
Cadmium - Total	MG/L	0.15	0.0010	0.14	0.0010	NA		0.20	0.0010
Chromium - Total	MG/L	0.35	0.0040	0.33	0.0040	NA		0.20	0.0040
Lead - Total	MG/L	1.7	0.0050	1.6	0.0050	NA		0.21	0.0050
Mercury - Total	MG/L	0.021	0.0010	0.021	0.0010	0.0035	0.00020	NA	
Selenium - Total	MG/L	0.16	0.015	0.15	0.015	NA		0.20	0.015
Silver - Total	MG/L	0.043	0.0030	0.042	0.0030	NA		0.050	0.0030

54/89

NA = Not Applicable ND = Not Detected

STL Buffalo

Client Sample ID: VBLK75 MSB75
Lab Sample ID: A5B0354702 A5B0354701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8260/25 ML - TCL VOLATILE					
1,1-Dichloroethene	UG/L	8.89	10.0	89	65-138
Trichloroethene	UG/L	9.92	10.0	99	71-120
Benzene	UG/L	10.0	10.0	100	67-126
Toluene	UG/L	9.77	10.0	98	71-120
Chlorobenzene	UG/L	9.81	10.0	98	74-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK83 MSB83
Lab Sample ID: A5B0352903 A5B0352901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA-METHOD 8260 - TCL VOLATILE ORGANIC					
1,1-Dichloroethene	UG/KG	35.7	50.0	71	65-146
Trichloroethene	UG/KG	44.3	50.0	89	74-127
Benzene	UG/KG	44.6	50.0	89	74-128
Toluene	UG/KG	48.3	50.0	97	74-123
Chlorobenzene	UG/KG	48.1	50.0	96	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK84 MSB84
Lab Sample ID: A5B0358702 A5B0358701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA-METHOD 8260 - TCL VOLATILE ORGANIC					
1,1-Dichloroethene	UG/KG	53.4	50.0	107	65-146
Trichloroethene	UG/KG	48.9	50.0	98	74-127
Benzene	UG/KG	49.9	50.0	100	74-128
Toluene	UG/KG	49.4	50.0	99	74-123
Chlorobenzene	UG/KG	48.9	50.0	98	76-124

57/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Date : 03/24/2005 16:19:59 Rept: AN0364

SAMPLE DATE 03/10/2005

Client Sample ID: GSB-6 (4-8) GSB-6 (4-8) GSB-6 (4-8)
Lab Sample ID: A5226001 A5226001MS A5226001SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
DELTA - METHOD 8270-HSL POLYNUCLEAR AROM												
Acenaphthene	UG/KG	322	3443	3322	4327	4309	72	70	71	3	16.0	49-131
Pyrene	UG/KG	1200	3530	3233	4327	4309	54	47 *	51	14	25.0	48-154

58/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK Matrix Spike Blank
Lab Sample ID: A5B0334302 A5B0334301

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8270-HSL POLYNUCLEAR AROM					
Acenaphthene	UG/KG	2754	3277	84	49-131
Pyrene	UG/KG	2803	3277	86	48-154

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK Matrix Spike Blank Matrix Spike Blk Dup
Lab Sample ID: A5B0334503 A5B0334501 A5B0334502

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			%	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
DELTA - METHOD 8270-HSL POLYNUCLEAR AROM											
Acenaphthene	UG/L	90.3	84.0	100	100	90	84	87	7	23.0	46-121
Pyrene	UG/L	86.5	84.5	100	100	86	84	85	2	25.0	53-142

68/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A5B0337302

Matrix Spike Blank
A5B0337301

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8082 - POLYCHLORINATED BI					
Aroclor 1254	UG/KG	156	162	97	52-153

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank
Lab Sample ID: A5B0337802

Matrix Spike Blank
A5B0337801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - METHOD 8082 - POLYCHLORINATED BI					
Aroclor 1260	UG/L	4.59	5.00	92	50-122
Aroclor 1016	UG/L	4.49	5.00	90	29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/10/2005

Client Sample ID: GSB-6 (4-8) GSB-6 (4-8) GSB-6 (4-8)
Lab Sample ID: A5226001 A5226001MS A5226001SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
TOTAL RCRA METALS												
TOTAL ARSENIC	MG/KG	76.19	52.99	70.20	26.31	26.05	-88 *	-23 *	-56	117 *	20.0	80-120
TOTAL BARIUM	MG/KG	304.2	173.3	270.2	26.31	26.05	-498 *	-130 *	-314	117 *	20.0	80-120
TOTAL CADMIUM	MG/KG	2.19	19.49	17.36	26.31	26.05	66 *	58 *	62	13	20.0	80-120
TOTAL CHROMIUM	MG/KG	39.13	44.90	90.41	26.31	26.05	22 *	197 *	110	160 *	20.0	80-120
TOTAL LEAD	MG/KG	863.0	577.1	1105	26.31	26.05	-999 *	931 *	-34	2540 *	20.0	80-120
TOTAL MERCURY	MG/KG	3.47	4.21	4.43	0.404	0.439	184 *	220 *	202	18	20.0	80-120
TOTAL SELENIUM	MG/KG	68.78	36.67	50.26	26.31	26.05	-122 *	-71 *	-97	53 *	20.0	80-120
TOTAL SILVER	MG/KG	0.624	5.14	4.71	6.57	6.51	69 *	63 *	66	9	20.0	80-120

63/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/11/2005

Client Sample ID: GSB-7 GSB-7 GSB-7
Lab Sample ID: A5226008 A5226008MS A5226008SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
DELTA - RCRA METALS - W												
DELTA - TOTAL ARSENIC - W	MG/L	0.102	0.268	0.251	0.200	0.200	83	75	79	10	20.0	75-125
DELTA - TOTAL BARIUM - W	MG/L	1.68	1.89	1.81	0.200	0.200	102	63 *	83	47 *	20.0	80-120
DELTA - TOTAL CADMIUM - W	MG/L	0.00150	0.152	0.145	0.200	0.200	75 *	72 *	74	4	20.0	80-120
DELTA - TOTAL CHROMIUM - W	MG/L	0.190	0.346	0.326	0.200	0.200	78 *	68 *	73	14	20.0	80-120
DELTA - TOTAL LEAD - W	MG/L	1.52	1.69	1.62	0.200	0.200	88	50 *	69	55 *	20.0	80-120
DELTA - TOTAL MERCURY - W	MG/L	0.0166	0.0210	0.0212	0.00666	0.00666	66 *	69 *	68	4	20.0	80-120
DELTA - TOTAL SELENIUM - W	MG/L	0.0133	0.159	0.153	0.200	0.200	73 *	70 *	72	4	20.0	80-120
DELTA - TOTAL SILVER - W	MG/L	0.00410	0.0429	0.0419	0.0500	0.0500	78	76	77	2	20.0	75-125

64/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0334602 A5B0334601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL RCRA METALS					
TOTAL ARSENIC	MG/KG	276.4	300.0	92	80-120
TOTAL BARIUM	MG/KG	267.6	297.0	90	80-120
TOTAL CADMIUM	MG/KG	83.13	93.70	89	80-120
TOTAL CHROMIUM	MG/KG	95.46	105.0	91	80-120
TOTAL LEAD	MG/KG	98.19	105.0	93	80-120
TOTAL SELENIUM	MG/KG	79.89	82.80	96	80-120
TOTAL SILVER	MG/KG	89.67	93.20	96	80-120

65/89

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LFB
Lab Sample ID: A5B0334702 A5B0334701

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - RCRA METALS - W					
DELTA - TOTAL ARSENIC - W	MG/L	0.211	0.200	106	80-120
DELTA - TOTAL BARIUM - W	MG/L	0.196	0.200	98	80-120
DELTA - TOTAL CADMIUM - W	MG/L	0.205	0.200	103	80-120
DELTA - TOTAL CHROMIUM - W	MG/L	0.202	0.200	101	80-120
DELTA - TOTAL LEAD - W	MG/L	0.214	0.200	107	80-120
DELTA - TOTAL SELENIUM - W	MG/L	0.204	0.200	102	80-120
DELTA - TOTAL SILVER - W	MG/L	0.0500	0.0500	100	80-120

68/99

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A5B0339202 A5B0339201

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
DELTA - RCRA METALS - W DELTA - TOTAL MERCURY - W	MG/L	0.00350	0.00333	105	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A5B0347802 A5B0347801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL RCRA METALS TOTAL MERCURY	MG/KG	1.94	1.80	108	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-10 (16-20) A05-2260 A5226006	GSB-3 A05-2260 A5226012	GSB-3 (16-20) A05-2260 A5226005
Sample Date		03/09/2005 12:40	03/10/2005 17:00		03/09/2005 14:00
Received Date		03/12/2005 12:15	03/12/2005 12:15		03/12/2005 12:15
Extraction Date					
Analysis Date		03/16/2005 19:23	03/17/2005 18:14		03/17/2005 17:42
Extraction HT Met?	NA	-	-	NA	-
Analytical HT Met?		YES	YES		YES
Sample Matrix		SOIL LOW	SOIL LOW		SOIL LOW
Dilution Factor		1.0	1.0		1.0
Sample wt/vol		5.07 GRAMS	5.09 GRAMS		5.13 GRAMS
% Dry		81.54	82.46		81.02

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-10 (16-20) A05-2260 A5226006	GSB-3 A05-2260 A5226012	GSB-3 (16-20) A05-2260 A5226005
Sample Date	03/11/2005 09:55			03/11/2005 10:15	
Received Date	03/12/2005 12:15			03/12/2005 12:15	
Extraction Date					
Analysis Date	03/17/2005 04:44			03/17/2005 05:16	
Extraction HT Met?	-	NA	NA	-	NA
Analytical HT Met?	YES			YES	
Sample Matrix	WATER			WATER	
Dilution Factor	1.0			1.0	
Sample wt/vol	0.025 LITERS			0.025 LITERS	
% Dry					

NA = Not Applicable

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-5 A05-2260 A5226010	GSB-6 A05-2260 A5226009	GSB-6 (4-8) A05-2260 A5226001	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004
Sample Date			03/10/2005 08:20		03/10/2005 15:00
Received Date			03/12/2005 12:15		03/12/2005 12:15
Extraction Date					
Analysis Date			03/16/2005 19:04		03/16/2005 23:35
Extraction HT Met?	NA	NA	-	NA	-
Analytical HT Met?			YES		YES
Sample Matrix			SOIL LOW		SOIL LOW
Dilution Factor			1.0		1.0
Sample wt/vol			5.0 GRAMS		5.04 GRAMS
% Dry			87.97		85.65

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-5 A05-2260 A5226010	GSB-6 A05-2260 A5226009	GSB-6 (4-8) A05-2260 A5226001	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004
Sample Date	03/11/2005 09:35	03/11/2005 09:15		03/11/2005 08:50	
Received Date	03/12/2005 12:15	03/12/2005 12:15		03/12/2005 12:15	
Extraction Date					
Analysis Date	03/17/2005 04:11	03/17/2005 03:39		03/17/2005 03:07	
Extraction HT Met?	-	-	NA	-	NA
Analytical HT Met?	YES	YES		YES	
Sample Matrix	WATER	WATER		WATER	
Dilution Factor	1.0	1.0		1.0	
Sample wt/vol	0.025 LITERS	0.025 LITERS		0.025 LITERS	
% Dry					

70/89

NA = Not Applicable

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-9 A05-2260 A5226007	GSB-9 (4-8) A05-2260 A5226003			
Sample Date		03/09/2005 16:10			
Received Date		03/12/2005 12:15			
Extraction Date					
Analysis Date		03/16/2005 19:41			
Extraction HT Met?	NA	-			
Analytical HT Met?		YES			
Sample Matrix		SOIL LOW			
Dilution Factor		1.0			
Sample wt/vol		5.0 GRAMS			
% Dry		81.84			

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	GSB-9 A05-2260 A5226007	GSB-9 (4-8) A05-2260 A5226003			
Sample Date	03/11/2005 08:25				
Received Date	03/12/2005 12:15				
Extraction Date					
Analysis Date	03/17/2005 02:35				
Extraction HT Met?	-	NA			
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

71/89

NA = Not Applicable

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	TRIP BLANK A05-2260 A5226013				
Sample Date	03/11/2005				
Received Date	03/12/2005 12:15				
Extraction Date					
Analysis Date	03/17/2005 05:49				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

7289

NA = Not Applicable

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MSB75 A05-2260 A5B0354701	MSB83 A05-2260 A5B0352901	MSB84 A05-2260 A5B0358701		
Sample Date					
Received Date					
Extraction Date					
Analysis Date		03/16/2005 15:55	03/17/2005 15:33		
Extraction HT Met?	NA	-	-		
Analytical HT Met?		-	-		
Sample Matrix		SOIL LOW	SOIL LOW		
Dilution Factor		1.0	1.0		
Sample wt/vol		5.0 GRAMS	5.0 GRAMS		
% Dry		100.00	100.00		

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MSB75 A05-2260 A5B0354701	MSB83 A05-2260 A5B0352901	MSB84 A05-2260 A5B0358701		
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/17/2005 02:02				
Extraction HT Met?	-	NA	NA		
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

73/89

NA = Not Applicable

DELTA-METHOD 8260 - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	VBLK75 A05-2260 A5B0354702	VBLK82 A05-2260 A5B0352902	VBLK83 A05-2260 A5B0352903	VBLK84 A05-2260 A5B0358702	
Sample Date					
Received Date					
Extraction Date					
Analysis Date		03/16/2005 16:31	03/16/2005 16:13	03/17/2005 16:05	
Extraction HT Met?	NA	-	-	-	
Analytical HT Met?		-	-	-	
Sample Matrix		SOIL LOW	SOIL LOW	SOIL LOW	
Dilution Factor		1.0	1.0	1.0	
Sample wt/vol		5.0 GRAMS	5.0 GRAMS	5.0 GRAMS	
% Dry		100.00	100.00	100.00	

DELTA - METHOD 8260/25 ML - TCL VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	VBLK75 A05-2260 A5B0354702	VBLK82 A05-2260 A5B0352902	VBLK83 A05-2260 A5B0352903	VBLK84 A05-2260 A5B0358702	
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/17/2005 00:57				
Extraction HT Met?	-	NA	NA	NA	
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
% Dry					

74/89

NA = Not Applicable

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-1 (12-16) RI A05-2260 A5226002RI	GSB-10 (16-20) A05-2260 A5226006	GSB-3 A05-2260 A5226012
Sample Date		03/09/2005 12:40	03/09/2005 12:40	03/10/2005 17:00	
Received Date		03/12/2005 12:15	03/12/2005 12:15	03/12/2005 12:15	
Extraction Date		03/14/2005 07:00	03/14/2005 07:00	03/14/2005 07:00	
Analysis Date		03/15/2005 20:01	03/17/2005 11:37	03/15/2005 21:43	
Extraction HT Met?	NA	YES	YES	YES	NA
Analytical HT Met?		YES	YES	YES	
Sample Matrix		SOIL LOW	SOIL LOW	SOIL LOW	
Dilution Factor		10.0	5.0	10.0	
Sample wt/vol		30.12 GRAMS	30.12 GRAMS	30.05 GRAMS	
% Dry		81.73	81.73	82.57	

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-1 (12-16) RI A05-2260 A5226002RI	GSB-10 (16-20) A05-2260 A5226006	GSB-3 A05-2260 A5226012
Sample Date	03/11/2005 09:55				03/11/2005 10:15
Received Date	03/12/2005 12:15				03/12/2005 12:15
Extraction Date	03/14/2005 07:00				03/14/2005 07:00
Analysis Date	03/16/2005 00:40				03/16/2005 01:06
Extraction HT Met?	YES	NA	NA	NA	YES
Analytical HT Met?	YES				YES
Sample Matrix	WATER				WATER
Dilution Factor	1.0				1.0
Sample wt/vol	0.95 LITERS				0.86 LITERS
% Dry					

NA = Not Applicable

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-3 (16-20) A05-2260 A5226005	GSB-5 A05-2260 A5226010	GSB-6 A05-2260 A5226009	GSB-6 (4-8) A05-2260 A5226001	GSB-6 (4-8) DL A05-2260 A5226001DL
Sample Date	03/09/2005 14:00			03/10/2005 08:20	03/10/2005 08:20
Received Date	03/12/2005 12:15			03/12/2005 12:15	03/12/2005 12:15
Extraction Date	03/14/2005 07:00			03/14/2005 07:00	03/14/2005 07:00
Analysis Date	03/15/2005 21:18			03/15/2005 18:45	03/17/2005 13:43
Extraction HT Met?	YES	NA	NA	YES	YES
Analytical HT Met?	YES			YES	YES
Sample Matrix	SOIL LOW			SOIL LOW	SOIL LOW
Dilution Factor	1.0			1.0	5.0
Sample wt/vol	30.83 GRAMS			30.22 GRAMS	30.22 GRAMS
% Dry	78.05			75.86	75.86

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-3 (16-20) A05-2260 A5226005	GSB-5 A05-2260 A5226010	GSB-6 A05-2260 A5226009	GSB-6 (4-8) A05-2260 A5226001	GSB-6 (4-8) DL A05-2260 A5226001DL
Sample Date		03/11/2005 09:35	03/11/2005 09:15		
Received Date		03/12/2005 12:15	03/12/2005 12:15		
Extraction Date		03/14/2005 07:00	03/14/2005 07:00		
Analysis Date		03/16/2005 00:15	03/15/2005 23:50		
Extraction HT Met?	NA	YES	YES	NA	NA
Analytical HT Met?		YES	YES		
Sample Matrix		WATER	WATER		
Dilution Factor		1.0	1.0		
Sample wt/vol		1.045 LITERS	0.94 LITERS		
% Dry					

76/89

NA = Not Applicable

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	GSB-7 (12-16) RI A05-2260 A5226004RI	GSB-9 (4-8) A05-2260 A5226003	GSB-9 (4-8) RI A05-2260 A5226003RI
Sample Date		03/10/2005 15:00	03/10/2005 15:00	03/09/2005 16:10	03/09/2005 16:10
Received Date		03/12/2005 12:15	03/12/2005 12:15	03/12/2005 12:15	03/12/2005 12:15
Extraction Date		03/14/2005 07:00	03/14/2005 07:00	03/14/2005 07:00	03/14/2005 07:00
Analysis Date		03/15/2005 20:52	03/17/2005 12:27	03/15/2005 20:27	03/17/2005 12:02
Extraction HT Met?	NA	YES	YES	YES	YES
Analytical HT Met?		YES	YES	YES	YES
Sample Matrix		SOIL LOW	SOIL LOW	SOIL LOW	SOIL LOW
Dilution Factor		10.0	1.0	10.0	1.0
Sample wt/vol		30.3 GRAMS	30.3 GRAMS	30.2 GRAMS	30.2 GRAMS
% Dry		78.41	78.41	77.23	77.23

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	GSB-7 (12-16) RI A05-2260 A5226004RI	GSB-9 (4-8) A05-2260 A5226003	GSB-9 (4-8) RI A05-2260 A5226003RI
Sample Date	03/11/2005 08:50				
Received Date	03/12/2005 12:15				
Extraction Date	03/14/2005 07:00				
Analysis Date	03/15/2005 23:24				
Extraction HT Met?	YES	NA	NA	NA	NA
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

77/89

NA = Not Applicable

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-6 (4-8) A05-2260 A5226001MS	GSB-6 (4-8) A05-2260 A5226001SD	Matrix Spike Blank A05-2260 A5B0334301	Matrix Spike Blank A05-2260 A5B0334501	Matrix Spike Blk Dup A05-2260 A5B0334502
Sample Date	03/10/2005 08:20	03/10/2005 08:20			
Received Date	03/12/2005 12:15	03/12/2005 12:15			
Extraction Date	03/14/2005 07:00	03/14/2005 07:00	03/14/2005 07:00		
Analysis Date	03/15/2005 19:10	03/15/2005 19:36	03/15/2005 17:54		
Extraction HT Met?	YES	YES	-	NA	NA
Analytical HT Met?	YES	YES	-		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	30.46 GRAMS	30.59 GRAMS	30.51 GRAMS		
% Dry	75.86	75.86	100.00		

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	GSB-6 (4-8) A05-2260 A5226001MS	GSB-6 (4-8) A05-2260 A5226001SD	Matrix Spike Blank A05-2260 A5B0334301	Matrix Spike Blank A05-2260 A5B0334501	Matrix Spike Blk Dup A05-2260 A5B0334502
Sample Date					
Received Date					
Extraction Date				03/14/2005 07:00	03/14/2005 07:00
Analysis Date				03/15/2005 22:08	03/15/2005 22:34
Extraction HT Met?	NA	NA	NA	-	-
Analytical HT Met?				-	-
Sample Matrix				WATER	WATER
Dilution Factor				1.0	1.0
Sample wt/vol				1.0 LITERS	1.0 LITERS
% Dry					

78/89

NA = Not Applicable

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	SBLK A05-2260 A5B0334302	SBLK A05-2260 A5B0334503			
Sample Date					
Received Date					
Extraction Date	03/14/2005 07:00				
Analysis Date	03/15/2005 18:19				
Extraction HT Met?	-	NA			
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.68 GRAMS				
% Dry	100.00				

DELTA - METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDRO

Client Sample ID Job No & Lab Sample ID	SBLK A05-2260 A5B0334302	SBLK A05-2260 A5B0334503			
Sample Date					
Received Date					
Extraction Date		03/14/2005 07:00			
Analysis Date		03/15/2005 22:59			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		WATER			
Dilution Factor		1.0			
Sample wt/vol		1.0 LITERS			
% Dry					

NA = Not Applicable

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-10 (16-20) A05-2260 A5226006	GSB-3 (16-20) A05-2260 A5226005	GSB-5 A05-2260 A5226010
Sample Date		03/09/2005 12:40	03/10/2005 17:00	03/09/2005 14:00	
Received Date		03/12/2005 12:15	03/12/2005 12:15	03/12/2005 12:15	
Extraction Date		03/15/2005 07:00	03/15/2005 07:00	03/15/2005 07:00	
Analysis Date		03/16/2005 11:00	03/16/2005 12:19	03/16/2005 12:00	
Extraction HT Met?	NA	YES	YES	YES	NA
Analytical HT Met?		YES	YES	YES	
Sample Matrix		SOIL LOW	SOIL LOW	SOIL LOW	
Dilution Factor		1.0	1.0	1.0	
Sample wt/vol		30.87 GRAMS	30.06 GRAMS	30.28 GRAMS	
% Dry		81.73	82.57	78.05	

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GSB-1 A05-2260 A5226011	GSB-1 (12-16) A05-2260 A5226002	GSB-10 (16-20) A05-2260 A5226006	GSB-3 (16-20) A05-2260 A5226005	GSB-5 A05-2260 A5226010
Sample Date	03/11/2005 09:55				03/11/2005 09:35
Received Date	03/12/2005 12:15				03/12/2005 12:15
Extraction Date	03/15/2005 07:00				03/15/2005 07:00
Analysis Date	03/16/2005 10:40				03/16/2005 10:23
Extraction HT Met?	YES	NA	NA	NA	YES
Analytical HT Met?	YES				YES
Sample Matrix	WATER				WATER
Dilution Factor	1.0				1.0
Sample wt/vol	1.05 LITERS				1.02 LITERS
% Dry					

68/08

NA = Not Applicable

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GSB-6 (4-8) A05-2260 A5226001	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	GSB-9 (4-8) A05-2260 A5226003	
Sample Date	03/10/2005 08:20		03/10/2005 15:00	03/09/2005 16:10	
Received Date	03/12/2005 12:15		03/12/2005 12:15	03/12/2005 12:15	
Extraction Date	03/15/2005 07:00		03/15/2005 07:00	03/15/2005 07:00	
Analysis Date	03/16/2005 10:41		03/16/2005 11:40	03/16/2005 11:20	
Extraction HT Met?	YES	NA	YES	YES	
Analytical HT Met?	YES		YES	YES	
Sample Matrix	SOIL LOW		SOIL LOW	SOIL LOW	
Dilution Factor	1.0		1.0	20.0	
Sample wt/vol	30.16 GRAMS		30.23 GRAMS	30.24 GRAMS	
% Dry	75.86		78.41	77.23	

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	GSB-6 (4-8) A05-2260 A5226001	GSB-7 A05-2260 A5226008	GSB-7 (12-16) A05-2260 A5226004	GSB-9 (4-8) A05-2260 A5226003	
Sample Date		03/11/2005 08:50			
Received Date		03/12/2005 12:15			
Extraction Date		03/15/2005 07:00			
Analysis Date		03/16/2005 10:05			
Extraction HT Met?	NA	YES	NA	NA	
Analytical HT Met?		YES			
Sample Matrix		WATER			
Dilution Factor		1.0			
Sample wt/vol		1.0 LITERS			
% Dry					

81/89

NA = Not Applicable

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2260 A5B0337301	Matrix Spike Blank A05-2260 A5B0337801			
Sample Date					
Received Date					
Extraction Date	03/15/2005 07:00				
Analysis Date	03/16/2005 10:01				
Extraction HT Met?	-	NA			
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.85 GRAMS				
% Dry	100.00				

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2260 A5B0337301	Matrix Spike Blank A05-2260 A5B0337801			
Sample Date					
Received Date					
Extraction Date		03/15/2005 07:00			
Analysis Date		03/16/2005 09:29			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		WATER			
Dilution Factor		1.0			
Sample wt/vol		1.0 LITERS			
% Dry					

82/89

NA = Not Applicable

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A05-2260 A5B0337302	Method Blank A05-2260 A5B0337802			
Sample Date					
Received Date					
Extraction Date	03/15/2005 07:00				
Analysis Date	03/16/2005 10:21				
Extraction HT Met?	-	NA			
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.79 GRAMS				
% Dry	100.00				

DELTA - METHOD 8082 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Method Blank A05-2260 A5B0337302	Method Blank A05-2260 A5B0337802			
Sample Date					
Received Date					
Extraction Date		03/15/2005 07:00			
Analysis Date		03/16/2005 09:47			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		WATER			
Dilution Factor		1.0			
Sample wt/vol		1.0 LITERS			
% Dry					

83/89

NA = Not Applicable

Date: 03/24/2005 16:20:25
Jobno: A05-2260

DELTA ENVIRONMENTAL CONSULTANTS, INC.
SAMPLE CHRONOLOGY

Rept: ANO369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5226011	GSB-1	MG/L	Arsenic - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Barium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Mercury - Total	7470	10.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 12:15	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 09:55	03/12 12:15	NA	NA	03/15 04:24	Yes	WATER
A5226002	GSB-1 (12-16)	MG/KG	Arsenic - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/16 16:33	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/09/2005 12:40	03/12 12:15	NA	NA	03/15 05:07	Yes	SOIL
A5226006	GSB-10 (16-20)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/16 16:37	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 17:00	03/12 12:15	NA	NA	03/15 05:36	Yes	SOIL
A5226005	GSB-3 (16-20)	MG/KG	Arsenic - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/16 16:36	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/09/2005 14:00	03/12 12:15	NA	NA	03/15 05:20	Yes	SOIL
A5226010	GSB-5	MG/L	Arsenic - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Barium - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 12:13	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 09:35	03/12 12:15	NA	NA	03/15 04:20	Yes	WATER
A5226001	GSB-6 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Mercury - Total	7471	10.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/16 16:28	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:49	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

STL Buffalo

DELTA ENVIRONMENTAL CONSULTANTS, INC.
SAMPLE CHRONOLOGY

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matri
A5226008	GSB-7	MG/L	Arsenic - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Barium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Mercury - Total	7470	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 12:08	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:02	Yes	WATER
A5226004	GSB-7 (12-16)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/16 16:35	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 15:00	03/12 12:15	NA	NA	03/15 05:15	Yes	SOIL
A5226003	GSB-9 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Mercury - Total	7471	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/16 16:34	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/09/2005 16:10	03/12 12:15	NA	NA	03/15 05:11	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Date: 03/24/2005 16:20:25
Jobno: A05-2260

DELTA ENVIRONMENTAL CONSULTANTS, INC.
QC CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5226001MS	GSB-6 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Mercury - Total	7471	10.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/16 16:30	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 04:58	Yes	SOIL
A5226001SD	GSB-6 (4-8)	MG/KG	Arsenic - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Mercury - Total	7471	10.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/16 16:31	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	03/10/2005 08:20	03/12 12:15	NA	NA	03/15 05:02	Yes	SOIL
A5226008MS	GSB-7	MG/L	Arsenic - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Barium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Mercury - Total	7470	5.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 12:10	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:11	Yes	WATER
A5226008SD	GSB-7	MG/L	Arsenic - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Barium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Lead - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Mercury - Total	7470	5.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 12:11	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
		MG/L	Silver - Total	6010	1.00	03/11/2005 08:50	03/12 12:15	NA	NA	03/15 04:15	Yes	WATER
A5B0334602	Method Blank	MG/KG	Arsenic - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:40	Yes	SOIL
A5B0334702	Method Blank	MG/L	Arsenic - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Barium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Lead - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
		MG/L	Silver - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:53	Yes	WATER
A5B0339202	Method Blank	MG/L	Mercury - Total	7470	1.00	-	- 12:15	NA	NA	03/15 12:25	Yes	WATER
A5B0347802	Method Blank	MG/KG	Mercury - Total	7471	1.00	-	- 12:15	NA	NA	03/16 17:00	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

STL Buffalo

DELTA ENVIRONMENTAL CONSULTANTS, INC.
QC CHRONOLOGY

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0339201	LCS	MG/L	Mercury - Total	7470	1.00	-	- 12:15	NA	NA	03/15 12:24	Yes	WATER
A5B0347801	LCS	MG/KG	Mercury - Total	7471	1.00	-	- 12:15	NA	NA	03/16 16:59	Yes	SOIL
A5B0334601	LCS CLP Soils	MG/KG	Arsenic - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Barium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Cadmium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Chromium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Lead - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Selenium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
		MG/KG	Silver - Total	6010	1.00	-	- 12:15	NA	NA	03/15 04:44	Yes	SOIL
A5B0334701	LFB	MG/L	Arsenic - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Barium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Cadmium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Chromium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Lead - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Selenium - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER
		MG/L	Silver - Total	6010	1.00	-	- 12:15	NA	NA	03/15 03:58	Yes	WATER

87/89

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: DELTA ENVIRONMENTAL	Project Manager: MARK SCHUMACHER	Date: 3-11-05	Chain of Custody Number: 190302
Address: 104 JAMESVILLE RD	Telephone Number (Area Code)/Fax Number: 315-445-0224	Lab Number:	Page 1 of 1
City: SYRACUSE / State: NY / Zip Code: 13214	Site Contact: SAME	Lab Contact:	
Project Name and Location (State): BINGHAMTON PLAZA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8260	PAH's	RCRA metals	8082 (PCBs)	Special Instructions/ Conditions of Receipt
GSB-6 (4'-8')	3-10-05	820				X	2						X	X	X	X	PID 20+ ppm
GSB-1 (12-16)	3-9-05	1240				X	2						X	X	X	X	PID 40+ ppm
GSB-9 (4-8)	3-9-05	1610				X	2						X	X	X	X	
GSB-7 (12-16)	3-10-05	1500				X	2						X	X	X	X	
GSB-3 (16-20)	3-9-05	1400				X	2						X	X	X	X	PID 250+ ppm
GSB-10 (16-20)	3-10-05	1700				X	2						X	X	X	X	
GSB-9	3-11-05	825		X						X			X				
GSA-7	3-11-05	850		X			2		1	2			X	X	X	X	OILY ODOR STRONG
GSA-6	3-11-05	915		X			1			2			X	X			OILY ODOR STRONG
GSA-5	3-11-05	935		X			2		1	2			X	X	X	X	WEAK OILY ODOR
GSB-1	3-11-05	955		X			2		1	2			X	X	X	X	WEAK OILY ODOR
GSB-3	3-11-05	1015		X													

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 DAYS

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	3-11-05	1030	1. Received By	3-11-05	1030
2. Relinquished By	3-11-05	1:00	2. Received By: RE, STL	3-11-05	12:00hrs
3. Relinquished By: RE, STL	3-11-05	1800	3. Received By	3/12/05	1215

Comments: Seals # 143574, 143575 — 2@2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Delta Environmental Consultants, Inc.

BINGHAMTON PLAZA, INC.

ATTACHMENT 2
FIELD ACTIVITIES AND ANALYSIS PLAN
33 WEST STATE STREET
BINGHAMTON, NEW YORK

5 AUGUST 2005

Prepared for:

Binghamton Plaza, Inc.
30 Galesi Drive, Suite 301
Wayne, New Jersey 07470

Prepared by:

Delta Environmental Consultants, Inc.
104 Jamesville Road
Syracuse, NY 13214

Delta Project No. 0504001P

Inogen Environmental Alliance

TABLE OF CONTENTS

List of Figures

List of Appendices

1.0 INTRODUCTION

This document represents the Field Activities and Analysis Plan (FAAP), which is Attachment 2 of the Site Investigation Work Plan for the Binghamton Plaza, Inc. site located at 33 West State Street, Binghamton, New York (the "Site"). This FAAP describes the sampling program and procedures to be followed during all sample collection and handling tasks and other investigative tasks associated with this project.

2.0 SAMPLING ACTIVITIES AND PROCEDURES

As part of the Site Investigation field tasks, soil, groundwater, sediment, surface water, and air samples will be collected and analyzed to determine the nature and extent of any potentially impacted environmental media at the site. Detailed field sampling procedures, proposed sampling locations, and analyses are described in the following sections of this FAAP, with additional detail provided in Appendix A of this FAAP. A detailed summary outlining the sampling program is presented in the accompanying Quality Assurance Project Plan (QAPP) on Table 6-1 of that document (See Attachment 3).

2.1 ANALYTICAL PROCEDURES

Remedial activities will include soil, groundwater, sediment, surface water, and air sample collection. Analyses for all media, except air, will include:

- volatile organic compounds (VOCs);
- semi-volatile organic compounds (SVOCs);
- metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium);
- and polychlorinated biphenyls (PCBs).

In addition, groundwater water samples will be analyzed for NYSDEC Part 360 Routine Parameters (as specified in 6 NYCRR Part 360, Subpart 360-2.11). Air samples will be analyzed for VOCs only.

In general, and where applicable (i.e., where ASP standards exist and are applicable) laboratory analytical procedures for soil, groundwater, sediment, and surface water will adhere to USEPA Standard Methods 8260 (VOCs), 8270 (SVOCs), 8082 (PCBs), and for metals the following SW-846 methods (as recommended in 6 NYCRR Part 360, subpart 360-2.11): 6010/7060/7061 (arsenic), 6010 (barium), 7140/6010/7190 (chromium),

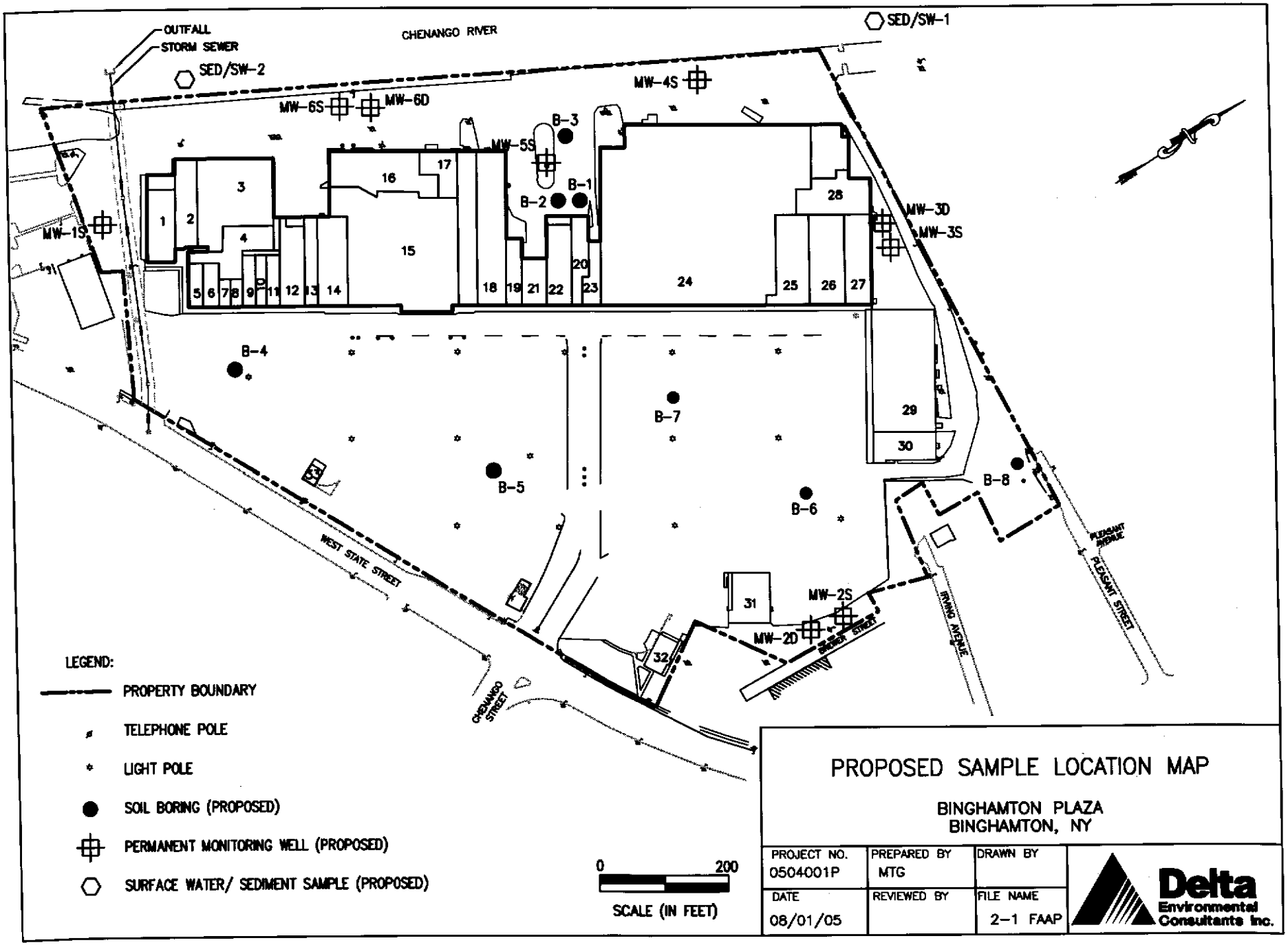
7461/7470 (mercury), 6010/7740/7741 (selenium), 6010/7460/7461 (silver), 3010/7130 (cadmium), 7131 (calcium), 7140/7380 (iron), 7381/6010/7420 (lead), 7421 (magnesium), 7450/7460 (manganese), 7461 (potassium), and 7610/7770 (sodium). Air sampling analytical procedures will adhere to USEPA TO-15 methodologies in accordance with NYSDOH certifications and standards.

All soil, groundwater, sediment, and surface water samples collected during the Site Investigation will be analyzed by a NYSDOH ELAP certified analytical laboratory that participates in the Contract Laboratory Program (CLP). Laboratory analytical procedures will adhere to NYS Analytical Services Protocol (ASP) 2000 methodologies and protocols. All air samples will be analyzed by STL of Burlington, VT, a laboratory certified by NYSDOH for TO-15 analyses.

Note: The analytical laboratory for the soil, groundwater, surface water, and sediment analyses will be selected prior to the start of field activities.

2.2 SOIL BORINGS

A total of 17 soil borings will be advanced across the site as part of this Site Investigation (Figure 2-1). Eight of these soil borings (i.e., B-1 to B-8) will be advanced across the site for subsurface soil sample collection purposes. The remaining nine soil borings (i.e., MW-1S, MW-2S/D, MW-3S/D, MW-4S, MW-5S and MW-6S/D) will also be advanced for soil sample collection purposes and will be converted into groundwater monitoring wells as discussed in Section 2.3. The drilling method will be selected based on expediency and on the nature of the soils encountered. Based on Delta's observations during the March 2005 site investigation work, it is estimated that hollow stem auger drilling methods will be required at the majority of the boring locations at deeper depths due to premature refusals encountered with the direct push drilling methods. However, direct push drilling methods will be utilized wherever possible to expedite the drilling



PROPOSED SAMPLE LOCATION MAP

BINGHAMTON PLAZA
BINGHAMTON, NY

PROJECT NO.	PREPARED BY	DRAWN BY
0504001P	MTG	
DATE	REVIEWED BY	FILE NAME
08/01/05		2-1 FAAP

Delta Environmental Consultants Inc.

program. Soil cores will be collected continuously from grade to the maximum depth of each boring regardless of the drilling technique employed.

Geoprobe equipment (or equivalent) will be used to initiate the soil borings (i.e., B-1 through B-8) using direct push sampling techniques and Macro-Core™ samplers (or equivalent) having a minimum inside diameter (ID) of 1.9 inches (Figure 2-1). Direct push techniques will be utilized at each of these boring locations until refusal is encountered, or until the maximum designed depth of the boring is reached, whichever is less. If refusal is encountered prior to reaching the desired depth based on the objectives of the Work Plan, hollow stem auger drilling techniques will be implemented to continue the soil boring from the depth of direct push refusal to the final depth of the borehole. Continuous split-spoon samplers will be utilized during the hollow stem auger drilling in lieu of the Macro-Core samplers used during the direct push drilling activities.

Upon extraction from the borehole, a geologist will log each soil core. Soil type, color, moisture, staining and any other pertinent observations will be recorded on a boring log. Each soil core will be sectioned and soils from each respective sampling interval will be placed in a sealed sampling container. Throughout this process, samples will be carefully handled to minimize the potential for loss of volatiles. The headspace of the sampling container will be then be scanned with a Photoionization Detector (PID) to evaluate the possible presence of VOCs in the sample. Sampling intervals for laboratory analysis will subsequently be selected and jarred into clean laboratory supplied containers as described further in Section 2.2.1 below.

Upon completion, each boring will be backfilled with bentonite hole-plug or a concrete grout. All generated wastes (soil cuttings and disposable sampling tubes) will be staged and properly secured onsite pending proper management.

2.2.1 Screening Criteria for Soil Sample Selection

Following collection and logging, soil samples from each sampling interval of a soil boring will be placed and sealed in a labeled sampling container. The sample will then be allowed to equilibrate for a minimum of ten minutes and then a PID will be used to measure the concentration of VOC vapors in the headspace of the container. Based on the PID readings, the sample interval typically having the highest PID reading (i.e., the "worst-case" sample) will be selected for laboratory analysis. However, other criteria such as evidence of staining, odors, sample depth and/or the history of an area will also be factored into the selection of samples. The actual number of soil samples to be collected is discussed in Section 4.1.2 of the Site Investigation Work Plan as well as on Table 6-1 of the QAPP presented as Attachment 3 of the Work Plan. These samples will be analyzed per the laboratory analytical requirements specified in Section 2.1 above.

As described in the Work Plan, at approximately three boring locations (to be field selected), an additional soil sample will be collected from natural undisturbed soils underlying the landfill wastes beneath the site to assist with vertical delineation of the COCs at the site. These three samples will not be selected as "worst-case" samples, but rather will be selected to evaluate the soil quality of the natural soils immediately underlying the landfill waste deposits, including the "silt" layer as described in the Work Plan.

All soil samples will be analyzed for VOCs, SVOCs, metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), and PCBs, as noted in Section 2.1 above.

2.3 MONITORING WELL INSTALLATION

A total of nine monitoring wells, six shallow (MW-1S through MW-6S) and three deep (MW-2D, 3D and 6D), will be installed at the site to depths of approximately 25 feet below grade, and 50 feet below grade respectively. Drilling methods used to install the

monitoring wells will consist of 4.25-inch inside diameter (ID) hollow-stem auger (HSA) drilling techniques in the case of the shallow monitoring wells, and a combination of 6-1/4-inch ID HSA drilling techniques and 3-7/8-inch ID fluid rotary techniques for the deep monitoring wells. Estimated monitoring well locations are shown on Figure 2-1.

During drilling activities, auger cuttings will be logged by a geologist and field screened with a PID to monitor for the potential presence of VOC vapors. Continuous split-spoon soil samples will be collected during all monitoring well installation activities, with the exception of well pair locations (i.e., where both a shallow and deep monitoring well are proposed at the same location), in which case split spoon samples will not be collected at the shallow monitoring well location. Soil samples for laboratory analysis from these borings will be selected as described in Section 2.2.1 above. The actual number of soil samples to be collected is discussed in Section 4.1.2 of the Site Investigation Work Plan as well as on Table 6-1 of the QAPP presented as Attachment 3 of the Work Plan. These samples will be analyzed per the laboratory analytical requirements specified in Section 2.1 above.

Each monitoring well will be constructed of two-inch-diameter PVC riser and ten feet of 0.01-inch slotted PVC well screen. In the case of the shallow monitoring wells, the well screen will be installed to straddle the estimated shallow water table, if present, above the "silt" layer. At the deep monitoring well locations, four-inch diameter steel casing will initially be installed to a depth of approximately 30 to 35 feet below grade, with the objective of sealing off any vertically restrictive layers (i.e., the silt layer), and allowing for the installation of a screen to monitor what is estimated to be a deeper sand and gravel unit immediately underlying the silt layer (i.e., screened interval estimated to be approximately 40 to 50 feet below ground surface).

At both the shallow and deep monitoring well locations, a sand pack will be installed around the well screen and will extend one to two feet above the top of the well screen. A minimum one-foot-thick bentonite pellet seal will be placed above the sand pack and cement/bentonite grout will be utilized to backfill the remainder of the well annulus. All

monitoring wells will be completed with a flush-mounted steel protective curb box. Following installation, reference points will be marked on the top of each well casing. All generated wastes (soil cuttings) will be staged on, and covered with, plastic pending proper management.

A summary of monitoring well locations is presented in Section 4.2.1 of the Work Plan. These locations are estimated based on an assumed westerly groundwater flow direction. (**Note**: locations of monitoring wells may be adjusted in the field due to access considerations).

2.3.1 Monitoring Well Development

Well development will begin no sooner than 24 hours after final completion of each monitoring well. Low-flow development techniques will be used to develop each of the newly installed monitoring wells. Each well will be developed until the turbidity of the water is below 50 NTU, and/or field parameters (pH, conductivity, and temperature) stabilize. Development water from the wells will be checked periodically for the presence of a sheen or free product. Development water will be discharged directly to the ground surface, unless there is visible evidence of impact. In the event that a sheen or free product is present, development water will be containerized pending proper management.

2.3.2 Hydraulic Conductivity Testing

Hydraulic conductivity testing (i.e., "slug testing") will be performed at selected monitoring well locations after proper monitoring installation and development has been completed. Hydraulic conductivity testing will be performed on four monitoring wells, two shallow and two deep, the locations of which will be determined after monitoring well installation is complete and the subsurface hydrogeology has been evaluated. Results of the testing will assist in establishing seepage velocities and contaminant transport rates as applicable.

Field testing procedures will consist of rapidly introducing a slug of one-half to one gallon of distilled water into the well, and subsequently monitoring the rate that the water level in the well returns to its static water level. Water level monitoring will be conducted using a 20 pounds per square inch (psi) transducer and an In-Situ Model 1000C data logger, or similarly appropriate technology. Test data will be analyzed using the method of Bouwer and Rice (1976), which is appropriate for determining the hydraulic conductivity of an unconfined aquifer from slug test data.

Modifications to the testing procedures will be made if necessary, upon evaluating the hydrogeologic conditions encountered during monitoring well installation and results of static water level measurements collected from the monitoring wells.

2.4 GROUNDWATER SAMPLING

Groundwater sampling will be conducted no sooner than one week after final development of each monitoring well. Prior to sampling each monitoring well will be purged a minimum of three well volumes. Wells will be purged using either low-flow purging techniques or dedicated disposable bailers. Purge water will be discharged directly to the ground surface, unless there is visible impact. In the event that sheen or free product is present, purge water will be containerized pending proper management.

Following purging, groundwater samples will be collected from each monitoring well with a dedicated disposable polyethylene bailer and rope. Field parameters (pH, temperature, conductivity, and turbidity) and groundwater elevation data will be collected from each monitoring well prior to purging (elevation data) and during sampling (field parameters). Groundwater samples will be analyzed for VOCs, SVOCs, metals (8 RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), PCBs, and NYSDEC Part 360 Routine Parameters as discussed in Section 2.1 above.

2.5 RIVER SAMPLING

To evaluate surface water and sediment quality in Chenango River at locations proximal to the site, Delta will collect two surface water samples and two sediment samples from the eastern river bank at approximate locations shown on Figure 2-1. One location will be established approximately 100 feet upstream from the site (SED/SW-1) and the second location approximately 100 feet downstream of the site, but upstream of the municipal storm water outfall location (SED/SW-2). All sample locations will be situated within the existing water line of the river, approximately one to three feet from shore.

Once the locations are established, a surface water sample will be collected at each location followed by a sediment sample. Sample collection will progress from the downstream location (SED/SW-2) to the upstream location (SED/SW-1).

Surface water samples will be collected at each location by dipping the sample container into the river with the mouth of the container facing upriver. Surface water samples will be analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), and PCBs (USEPA Method 8082) as discussed above in Section 2.1.

Upon completion of surface water collection, a sediment sample will be collected from each location using hand trowels, dedicated sampling tools, or other suitable device to retrieve sediment from the sample location. The sediment will be transferred to a stainless steel mixing bowl or other suitable mixing tool. Any free liquid will be decanted and visually inspected for any sheen or other evidence of potential contamination. After the liquid is decanted, sample material for VOC analysis will be transferred directly into the sample containers. The remaining sample material will be homogenized and transferred into the remaining sample containers. Sediment samples will be analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270),

metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), and PCBs (USEPA Method 8082) as discussed above in Section 2.1. A description of each sample and sample location will be prepared, and the location of each surface water/sediment sample location will be marked with stakes to allow for surveying.

2.6 AIR SAMPLING

A number of air samples will be collected to support vapor intrusion analysis in accordance with NYSDOH standards and guidelines, as described in Section 4.4 of the Work Plan. The following describes the general sampling procedures for each air sample collected.

All samples will be collected in 0.4 –liter evacuated canisters over a-12-hour period using SUMMA® canisters in accordance with Section 2.7 (Sampling Protocols) of the VI Guidance Document. Sub-pavement sampling points will be designed in accordance with NYSDOH's recommended sub-slab vapor probe as depicted in Section 27.2 of the VI Guidance Document. In general, collection rates will not exceed 200 ml/minute as specified by NYSDOH.

All samples will be analyzed by Severn Trent Laboratories of Burlington, VT, a NYSDOH-certified laboratory method TO-15, with minimum reporting limits in accordance with NYSDOH standards (typically 1 ug/m^3) and sufficiently low to provide a comparison of the analytical results to established NYSDOH Background levels and NYSDOH Guideline values as listed in Section 3.2.4 of the VI Guidance Document. All analyses will include methane and methane-related analytes as appropriate.

2.7 SURVEYING

Upon completion of all field tasks, the horizontal and vertical locations of all soil borings, monitoring wells, and surface water/sediment sampling locations will be

surveyed by a New York State (NYS) licensed land surveyor. Vertical elevations will be recorded to the nearest 0.01-foot. Top-of-casing elevations for each monitoring well will also be recorded to the nearest 0.01-foot. All sampling points will be referenced to an onsite fixed datum point.

3.0 DATA EVALUATION

Sampling results will be used to estimate the nature and extent of detected analytes in soil, groundwater, sediment, surface water, and air within the proposed work areas.

3.1 SOIL, GROUNDWATER, SEDIMENT, AND SURFACE WATER SAMPLING DATA

Upon receipt, the analytical data packages will be reviewed for completeness and accuracy. All data will then be validated, and a DUSR will be prepared. Following validation the data will be compared to applicable standards, criteria, and guidance values as follows:

- Soil Data: *NYSDEC TAGM 4046* recommended soil cleanup objectives.
- Groundwater Data: *NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS)* ambient water quality standards and guidance values for groundwater. These values are derived from 6 NYCRR Parts 700-705, Water Quality Regulations. Groundwater elevation and flow data will also be reviewed and evaluated.
- Surface Water Data: 6 NYCRR Part 703, Class AA-S Surface Water Standards
- Sediment Data: NYSDEC's Division of Fish, Wildlife and Marine Resources Technical Guidance for Screening Contaminated Sediments (updated January 25, 1999).

3.1.1 Vapor Intrusion Monitoring Data

The results of the vapor intrusion monitoring as described above under Section 4.4 will be compared to established NYSDOH Background levels and NYSDOH Guideline values as listed in Section 3.2.4 of the NYSDOH's Draft Guidance for Evaluating Soil Vapor Intrusion in the State of New York, as applicable.

4.0 DOCUMENTATION PROCEDURES

The contractor will maintain complete documentation of all project activities so that decision processes, actions and results can be recreated as needed. As such, a history of the project will be maintained. Documentation of the activities for various aspects of the project will be accomplished as presented below.

Field Activities

Field Notebook – The contractor will maintain a bound field notebook that will document dates, times and duration of all field activities. The field notebook will be maintained by the Site Manager. All notebook entries will be made in ink on consecutive pages.

Photographs - Photographs will be taken of all significant site activities.

Weekly Reports - The daily field reports will be summarized on weekly report forms that will be supplied to the Project Manager. Copies of the weekly reports will be issued to the NYSDEC representative as part of the monthly report.

Calibration Records - Calibration activities for all field instrumentation will be maintained in the field notebook.

Geologic Logs - Observations pertaining to site geology made during all sub-surface drilling or excavations activities will be recorded in the field notebook.

Safety Forms - Sign-in forms, levels of personal protection, air-monitoring results, incidents reporting forms and other safety-related forms will be maintained in the field notebook, as necessary.

Environmental Sampling

Chain-of-Custody Forms - All sample handling will be recorded on chain-of custody forms and associated labels.

Management Reports

Corrective Action - All corrective action measures will be documented on the appropriate form and noted in the field notebook.

Monthly Reports - Monthly reports will be completed and will include all pertinent forms (e.g., Corrective Action, Incident Reports) in accordance with the applicable BCP regulatory guidance documents. The monthly reports will include, at a minimum, the following information.

- Activities conducted during the reporting period;
- Anticipated activities for the next reporting period;
- Activity modifications;
- Sampling results;
- Project percentage completion;
- Corrective actions; and
- Citizen participation activities.

Final Report

A final Site Investigation report summarizing all site activities will be prepared upon completion of the project. This report will certify that the work was performed in accordance with the Work Plan and Field Activity and Analysis Plans. The final Site Investigation Report will be prepared in accordance with Section 3.10 of the Draft Brownfield Cleanup Program Guide.

APPENDIX A

GENERAL SAMPLING PROCEDURES FOR FIELD INVESTIGATION

TABLE OF CONTENTS

GENERAL SAMPLING PROCEDURES

1.0 INTRODUCTION

During the course of the Site Investigation, the applicable procedures listed below will be followed for sample collection:

- Accurate and detailed field notes will be maintained including detailed descriptions of sample collection and handling procedure and sample characteristics.

- Sampling procedures will be performed with the overall intent of collecting representative samples and minimizing sample disturbance.

- Laboratory-supplied sample bottles (pre-preserved as applicable) will be labeled with the sample location, identification number, and date and time of sampling prior to being filled with sample material.

- All sample collection, handling and shipping information will be recorded in the field notebook, and chain of custody documents as appropriate.

2.0 GENERAL SAMPLE COLLECTION PROCEDURES

All non-dedicated sampling equipment will be suitably cleaned before entry to the site, between sampling locations and intervals, and prior to departure from the site.

1. All samples containers will be labeled with: 1) site; 2) project number; 3) sample number; 4) sample interval (for soil samples); 5) date; 6) time of collection; and 7) initials of sampler.

2. The sample collector will record descriptions of soil samples regarding 1) soil type; 2) color; 3) odor; 4) moisture content; 5) texture; 6) grain size 7)

consistency; and 8) any other observations, particularly relating to waste materials or unnatural materials. For water samples, the sample collector will describe 1) color; 2) odor; 3) visual turbidity; and 4) any observed phase separation.

3. Sample containers will be capped immediately after filling and placed into a chilled-cooler containing sufficient ice or cold packs to cool the media to 4°C for transport to the laboratory.

4. All equipment used to collect samples for analysis will be either decontaminated before each use or dedicated to a particular sample location after initial decontamination.

2.1 MATERIALS

The following materials will be available during soil and sediment sampling activities:

- health and safety equipment (PPE, PID, etc.);
- sample retrieval device (trowel, bailers, spoons etc.);
- stainless steel spatulas, bowls and scoops;
- polyethylene sheeting;
- sample containers and chain-of-custody forms;
- transport container with cold source;
- field notebook;
- decontamination supplies; and
- aluminum foil and zip-lock type bags.

3.0 SOIL SAMPLE COLLECTION PROCEDURES

The applicable procedures noted below will be followed during collection of soil samples:

1. All-samples will be collected by using dedicated sampling equipment or a trowel or stainless steel spoon. Other equipment used during sampling such as bowls and mixing spoons will likewise be made of stainless steel.

2. All-samples will be screened immediately upon sample retrieval with a photoionization detector (PID). Next, samples for volatile analysis will be collected directly from the sampling tool into the appropriate containers in a manner that minimizes headspace. All remaining sample material will then be homogenized using the coning and quartering method. This method includes removing any debris not considered as part of the sample, thoroughly mixing the sample in the center of a dedicated sampling device or decontaminated stainless steel pan or bowl, then quartering and mixing the individual sample corners. The entire sample will be rolled to the center of the sampling device followed by a final mix. Sample collection will be conducted after homogenization. Soil samples will not require preservation except for maintaining the media to approximately 4°C.

4.0 GROUNDWATER SAMPLE COLLECTION PROCEDURES

Purging and sampling methods will utilize the simplest sampling method that will yield representative groundwater samples. Dedicated sampling equipment (i.e., disposable bailer and cord or polyethylene tubing and peristaltic pump) will be used to collect all groundwater samples.

Prior to sampling, all wells will be purged of at least three casing volumes using dedicated disposable polyethylene bailers or other suitable device (e.g., peristaltic pump

with dedicated polyethylene tubing). Wells with low recovery rates will be evacuated to near dryness once and allowed to recover sufficiently for samples to be collected. Wells with low recovery rates will be characterized as those wells where bailing at a slow but steady rate (1000 ml/min) dewaters the well. All measuring equipment will be cleaned between uses and properly calibrated.

4.1 MATERIALS

The following materials will be available for groundwater sampling activities.

- water level indicator (accurate to 0.01 foot);
- new dedicated bailers;
- polypropylene cord;
- one-liter beaker (for dissolved metals samples);
- pH meter (if needed);
- temperature, water level, conductivity meter;
- PID;
- sample bottles/labels;
- chain-of-custody forms;
- thermally insulated container with cold source;
- sample preservation (may be added to bottle by analytical laboratory);
- 0.45 micron polypropylene filter (for dissolved metals samples);
- field book;
- PPE as needed (gloves, etc.); and
- decontamination supplies (detergent, water, hexane, methanol or nitric acid rinses, bucket, brushes, etc.).

4.2 GROUNDWATER SAMPLING PROTOCOL

Groundwater sampling protocol is described below.

- Open well casing and monitor headspace for VOCs. If greater than 5 ppm detected, allow well to vent for 5 to 10 minutes. Re-measure headspace for VOCs. Record PID readings in field book.

- If bailers are to be utilized, a clean, dedicated, disposable bailer will be attached to new dedicated cord. If other devices are to be used (e.g., peristaltic pumps), only clean dedicated disposable polyethylene tubing will be introduced into the well. Both the cord and the bailer, and/or dedicated polyethylene tubing, will be properly discarded upon completion of the well sampling event.

- The bailer or other suitable device will be used to purge three well volumes from the well. Measurement of temperature, pH, and conductivity will be made and recorded in the field book along with volume removed. Wells with low recovery rates will be evacuated to near dryness once, then allowed to recover sufficiently for samples to be collected. Wells with low recovery rates will be characterized as those wells where bailing at a slow but steady rate (1000 ml/minute) dewaters the well. All purged water will be discharged directly to the ground surface, unless there is visible evidence of impact. In the event that a sheen or free product is present, development water will be containerized pending proper management.

- Within eight hours of purging or as soon as the well has sufficiently recovered from purging to fill a bailer, a water sample will be collected for VOC analysis (if required) using a dedicated polyethylene bailer. Care will be taken not to agitate the sample when transferring it from the bailer to the laboratory-supplied vials. Samples for any additional parameters will be collected subsequent to the VOC samples. Assuming adequate recharge, all samples will be collected within eight hours of purging.

- VOC samples will be collected in 40 ml glass vials with zero headspace and will be preserved with hydrochloric acid to a pH of less than two (in accordance with

the instructions provided in the Region II CERCLA QA Manual, Revision 1, October, 1989, p. 31). All other bottles will be filled to 90% capacity and then properly preserved (Note: all non-VOC aqueous sample preservation will be verified by pouring a small amount of the preserved sample over pH paper; submerging pH paper into sample container will not be permitted).

- Total metals samples (if needed) will be collected after the well has recovered sufficiently to allow for a sample with minimal turbidity. Total metals samples will be collected by gently lowering the bailer into the well to minimize disturbance to the water column.

- Dissolved metals samples (if required) will be field filtered using a disposable, polypropylene, in-line 0.45-micron filter. Filtering will be conducted immediately after dissolved metals sample collection. Approximately 500 ml of the sample is transferred to a clean 500-ml beaker. The sample is then passed through the polypropylene in-line filter described above via pumping through Teflon® tubing.

- Sample containers will be capped immediately after filling and placed into an iced cooler for transport to the laboratory.

- Sampling will progress from the least contaminated well to the most contaminated well, based on the results of previous sampling and analysis. Samples will be properly preserved, stored on ice and transported to the laboratory under the proper chain-of-custody.

Delta Environmental Consultants, Inc.

BINGHAMTON PLAZA, INC.

ATTACHMENT 3
QUALITY ASSURANCE PROJECT PLAN
33 WEST STATE STREET
BINGHAMTON, NEW YORK

5 AUGUST 2005

Prepared for:

Binghamton Plaza, Inc.
30 Galesi Drive, Suite 301
Wayne, New Jersey 07470

Prepared by:

Delta Environmental Consultants, Inc.
104 Jamesville Road
Syracuse, NY 13214

Delta Project No. 0504001P

Inogen® Environmental Alliance

TABLE OF CONTENTS

List of Tables

List of Appendices

1.0 INTRODUCTION

This document represents the Quality Assurance Project Plan (QAPP), which is Attachment 3 of the Site Investigation Work Plan for the Binghamton Plaza, Inc. site located at 33 West State Street, Binghamton, New York (the "Site"). This QAPP describes the field and laboratory quality assurance and quality control (QA/QC) measures to be implemented during the project.

2.0 SITE GOALS

As described in the Site Investigation Work Plan, the goals of the site work are to evaluate the nature and extent of any impacted subsurface soil and shallow groundwater at the site.

Prior work at the site has included soil and groundwater sampling to identify potential constituents of concern at the Site. Pending site activities will consist of drilling, monitoring well installation and multi-media sampling.

3.0 QUALITY ASSURANCE OBJECTIVES

3.1 DATA QUALITY OBJECTIVES

Data Quality Objectives (DQOs) are based on the concept that various uses of data collected during the Site Investigation require varying degrees of data quality. Data quality is defined as the degree of certainty in a data set with respect to precision, accuracy, representativeness, completeness and comparability (PARCC). DQOs are qualitative and quantitative statements specifying the required quality of data necessary to support Site Investigation activities. These activities include site screening and site characterization. A description of PARCC parameters is described below.

Precision is a measure of mutual agreement among individual measurements of the same property, usually under prescribed similar conditions. Precision is best expressed in terms of the standard deviation. Various measures of precision exist depending upon the "prescribed similar conditions".

Accuracy is the degree of agreement of a measurement (or an average of measurements) with an accepted reference or "true value". Accuracy is one estimate of the bias in a system.

Representativeness expresses the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition.

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount expected to be obtained under correct normal conditions.

Comparability expresses the confidence with which one data set can be compared to another data set.

It is the responsibility of the field team to collect representative and complete samples. It is the responsibility of the analytical laboratory to analyze these samples using accepted protocols resulting in data that meet PARCC standards.

The categories of data quality to be utilized during the Site Investigation at the subject site are consistent with those outlined in the USEPA Guidance document entitled *Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA*, dated October 1988, and are described below.

- DQO Level 1 - Field Screening Utilizing Portable Instrumentation: Data used for site health & safety monitoring and field screening during site characterization activities. The data generally determines the presence or absence of certain constituents and is generally qualitative rather than quantitative. Field screening data provides the lowest data quality.

- DQO Level 2 - Field Laboratory Analysis: Data used for field screening during site characterization activities, evaluation of remedial alternatives, engineering design and monitoring during implementation of alternatives. The data generally determines levels of certain constituents relative to a calibration standard and is generally qualitative or quantitative.

- DQO Level 3 – Engineering Level Data: Data used for site characterization, risk assessment, evaluation of alternatives, engineering design and monitoring during implementation of alternatives. The data is quantitative and is generated using EPA analytical laboratory procedures, however, it does not include full Contract Laboratory Protocol (CLP) documentation.

- DQO Level 4 - Laboratory Analysis: Data used for risk assessment, evaluation of alternatives and engineering design. The data is quantitative and is generated using EPA analytical laboratory procedures. All analyses require full Analytical Services Protocol (ASP)/CLP analytical protocols including Data Usability

Summary Reports (DUSR). The majority of the data generated during the Site Investigation will be DQO Level 4.

- DQO Level 5 – Non-Standard Special Analytical Services: Data for use when analysis by non-standard procedures is required to obtain specific or lower detection limits or analyses are not of a nature typically performed under the CLP Routine Analytical Service (RAS) Program.

DQOs have been developed for the tasks outlined in the Work Plan. During the Site Investigation process it is anticipated that DQO Levels 1 and 4 will primarily be utilized.

DQO Level 1 data (field screening) will be generated during site characterization activities including: head space screening of soil samples; health and safety monitoring; and collection of groundwater parameters.

DQO Level 2 data (field analysis), DQO Level 3 data (engineering) and DQO Level 5 (non-standard) data are not expected to be generated as part of the Site Investigation activities. However, data at these DQO levels may be generated during a Supplemental Investigation, if required.

DQO Level 4 data (laboratory analysis) will be generated during site characterization activities including: soil sampling and analysis, groundwater sampling and analysis and surface water/sediment sampling and analysis.

3.2 FIELD SAMPLING QUALITY OBJECTIVES

The objectives with respect to field sampling activities are to maximize the confidence in the data in terms of PARCC. Field Internal Quality Control Checks will be utilized during this investigation through the use of field duplicates as presented below.

Field Duplicates – With the exception of the air sampling, one of every twenty samples of a particular sampling medium (i.e., soil, groundwater, surface water and/or sediment) collected in the field will be accompanied by a duplicate sample. The duplicate will be prepared by homogenizing the sample to the extent possible and preparing two identical sample aliquots for analysis (grab samples will be used for VOC analysis). The duplicate sample will be assigned a fictitious sample number which will be recorded in the field notebook. Analysis of duplicate samples will determine the precision of the analytical techniques.

Precision will be calculated as relative percent difference (RPD) if there are only two analytical points, and percent relative standard deviation (%RSD) if there are more than two analytical points. Through the submission of field QC samples, the distinction may be made between analytical problems, sampling technique considerations, and sample matrix variability. This distinction will be made by the data reviewer based on industry guidelines and personal judgment.

To assure representativeness, a field sampling plan has been devised that estimates the number of samples to be collected. This plan is presented in the project Field Activities and Analysis Plan (FAAP). The data quality objective for the completeness of all data to be collected during the investigation is 100%. In other words, the objective is to collect samples from all of the locations noted in the FAAP. In the event 100% is not obtained due to inaccessibility of sampling points or other field conditions, the effect that the missing data will have on the project's objectives will be evaluated. If necessary, corrective action will be initiated to resolve any data gaps that develop as a result of less than 100% data completeness. Every effort will be made to obtain valid data for all sampling points, particularly those identified by the Site Manager as critical points. In this regard, the sampling points identified as critical will be selected for QC sampling (duplicate sample collection) at the frequency specified.

In order to establish a degree of comparability, such that observations and conclusions can be directly compared with all historical data, standardized methods of field analysis,

sample collection, holding times, sample preservation and standard units of measurement for data will be used. In addition, field conditions will be documented and considered when evaluating data to determine the effects of sample characteristics on analytical results. Whenever possible, the same sampling team will obtain all samples to reduce inconsistencies which may be caused by technique and time variables.

3.3 LABORATORY DATA QUALITY OBJECTIVES

The laboratory will demonstrate analytical precision and accuracy by the analysis of laboratory duplicates and by adherence to accepted manufacture and procedural methodologies.

The performance of the laboratory will be evaluated by the Project Manager and Project Quality Assurance Officer during data reduction. The evaluation will include a review of all deliverables for completeness and accuracy when applicable.

4.0 QUALITY CONTROL PROCEDURES

This section presents a general overview of the quality assurance and quality control (QA/QC) procedures that will be implemented during the investigation. These quality control procedures are to be implemented as follows:

- at the factory for certain manufactured products;
- in the field; and
- in the laboratory utilized for selected sample analyses.

4.1 SAMPLING ACTIVITIES

Sampling and analysis will be conducted to characterize the Site. General field sampling procedures are described in Appendix A of the FAAP. Samples will be handled by all field and laboratory personnel in a manner which allows for custody tracking and maintenance of the validity of the samples. Sample custody procedures are presented as Appendix A of this QAPP.

All sampling equipment, field measuring equipment and heavy equipment will be decontaminated according to the decontamination procedures presented in Appendix B of this QAPP.

All field activities will be documented in accordance with Appendix C of this QAPP.

5.0 CALIBRATION PROCEDURES

Laboratory calibration and frequency for specific analytical methods and pieces of equipment are specified in USEPA SW846 and the laboratory's Standard Operating Procedures.

During the course of this investigation, soil samples may be screened with a photoionization detector (PID) in the field. A maintenance, calibration, and operation program will be implemented to ensure that routine calibration and maintenance is performed on all field instruments. The O&M program will be monitored by the Site Manager. Trained team members will perform scheduled calibration, field calibrations, checks, and instrument maintenance prior to use each day. Additionally, calibration will be checked as necessary to ascertain that proper measurements are being taken.

Team members are familiar with the field calibration, operation, and maintenance of the equipment, and will perform the prescribed field operating procedures outlined in the operation and field manuals accompanying the respective instrument. Field personnel will keep records of all field instruments calibrations and field checks in the field logbooks. Calibration information recorded in field logbooks will include date, time, instrument model and serial number, a description of calibration or field check procedure, and any instrument deviations.

If on-site monitoring equipment should fail, the Site Manager will be contacted immediately. Replacement equipment will be provided or the malfunction will be repaired in a timely fashion.

6.0 ANALYTICAL PROCEDURES AND DATA EVALUATION

Site Investigation activities will include sample collection for analysis for some or all of the following analytes: Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), polychlorinated biphenyls (PCBs), metals (RCRA metals plus calcium, iron, magnesium, manganese, potassium, and sodium), and miscellaneous indicator parameters as specified in the "Routine Parameter list" in 6 NYCRR Part 360 Subpart 360-2.11. Soil, groundwater, surface water and sediment samples will be collected during the course of this Site Investigation. In general, laboratory analytical procedures will adhere to NYS ASP 2000 and/or to USEPA SW-846 methodologies as appropriate. The laboratory will adhere to the requirements of NYS ASP 2000 in conjunction with the CLP. Samples will be analyzed by a laboratory that is a NYSDOH ELAP certified laboratory that participates in the CLP and is experienced in performing ASP analyses.

A summary of the sampling program and analytical methods is shown in Table 6-1.

Upon receipt of analytical reports from the laboratory, the data packages will be evaluated to confirm that samples were analyzed within required holding time and at proper detection limits. Data validation will be conducted for all samples analyzed in accordance with ASP methodologies. The laboratory will provide ASP 2000 category B QA/QC backup for data packages with all confirmation sampling analytical reports (excluding and TCLP analyses and material characterization analyses). These packages will be reviewed for completeness and provided upon request.

Table 6-1

Site Investigation Sampling Program

Task	Matrix	VOCs (EPA Method 8260)	SVOCs (EPA Method 8270)	PCBs (EPA Method 8082)	Metals (Various Methods, 8 RCRA metals plus Ca, Fe, Mg, Mn, K, Na)
Soil Borings					
B-1 through B-8 and MW-1S, MW-2D, MW-3D, MW-4S and MW-6D	Soil	12	9	9	9
Duplicates (1 per SDG)	Soil	2	2	2	2
Field Blank (1 per SDG)	Soil	2	2	2	2
MS/MSD (1 set per SDG)	Soil	2 sets	2 sets	2 sets	2 sets
Total Soil Samples		20	17	17	17
Groundwater Sampling					
MW-1S through MW-6S, MW-3D, MW-3D and MW-6D	GW	9	9	9	9
Duplicates (1 per SDG)	GW	1	1	1	1
MS/MSD (1 set per SDG)	GW	1 set	1 set	1 set	1 set
Field Blank (1 per SDG)	Water	1	1	1	1
Trip Blank	Water	1	-	-	-
Total Groundwater Samples		14	13	13	13

Table 6-1 (Continued)

Site Investigation Sampling Program

Task	Matrix	VOCs (EPA Method 8260)	SVOCs (EPA Method 8270)	PCBs (EPA Method 8082)	Metals (Various Methods, 8 RCRA metals plus Ca, Fe, Mg, Mn, K, Na)
Surface Water Sampling					
SW-1 and SW-2	Surface Water	2	2	2	2
Duplicates (1 per SDG)	Surface Water	1	1	1	1
MS/MSD (1 set per SDG)	Surface Water	1 Set	1 Set	1 Set	1 Set
Trip Blank	Water	1	-	-	-
Total Surface Water Samples		7	6	6	6
Sediment Sampling					
SED-1 and SED-2	Sediment	2	2	2	2
Duplicates (1 per SDG)	Sediment	1	1	1	1
MS/MSD (1 set per SDG)	Sediment	1 Set	1 Set	1 Set	1 Set
Field Blank (1 per SDG)	Water	1	1	1	1
Total Sediment Samples		6	6	6	6

Notes for Table 6-1:

1: The method quantification limits will be the lowest as required by the method.
2: The actual detection limit will be dependent upon the sample matrix.
3: Holding times, preservatives and sample containers will be specified by the analytical method.

The project QA/QC officer will review the data packages to confirm completeness of the ASP Category B deliverables and to prepare a Data Usability Summary Report (DUSR) in accordance with NYSDEC guidelines. The QA/QC officer will be independent from the analytical laboratory. At a minimum, the following information will be evaluated:

- chain-of-custody forms;
- date sampled/date analyzed;
- sample temperature at check-in;
- raw data;
- initial and continuing instrument calibrations;
- matrix spikes;
- laboratory duplicate analyses;
- surrogate recoveries (organics); and
- laboratory control samples (inorganics).

Data reduction will consist of presenting analytical results on summary tables. Data resulting from investigation analyses will then be used to characterize the various environmental media at the site and to define the extent of any impacted medium.

7.0 PROJECT PERSONNEL

This Work Plan was prepared by a project team from Delta Environmental Consultants, Inc. (Delta) with extensive experience in site investigation and remediation, site development and construction management.

This project will be implemented by a project team with extensive experience in site investigations, site remediation, and site development and construction management. The project team will consist of individuals from Delta. The project team will be responsible for implementation of the Site Investigation Work Plan. Key personnel to be assigned to this project, and their project role, will be provided prior to the start of work; professional profiles for these persons will also be provided prior to the start of work.

The laboratory analytical contractor will be an NYSDOH-certified laboratory with ASP/CLP experience to be selected upon completion and approval of the Site Investigation Work Plan. Site contractors will be selected upon completion and approval of the Site Investigation Work Plan.

8.0 SCHEDULE

The estimated work schedule is presented in Section 8.0 of the Site Investigation Work Plan document. A start date will be established based on finalization of the Work Plan.

APPENDIX A
SAMPLE CUSTODY PROCEDURES

SAMPLE CUSTODY PROCEDURES

The primary objective of the sample custody procedures is to create an accurate written record which can be used to trace the possession and handling of all samples from the moment of their collection, through analysis, until their final disposition. For the purpose of this document, the USEPA Office of Enforcement and Compliance Monitoring, National Enforcement Investigation Center (NEIC) Policies and Procedures (May 1986) definition of custody applies. USEPA states that a sample is under custody if:

1. it is in one's possession, or
2. it is in one's view, after being in one's possession, or
3. it is locked up after being in one's possession, or
4. it is in a designated secure area.

The Site Manager or the field personnel collecting the samples will maintain custody for samples collected during this investigation. The Site Manager or field personnel are responsible for documenting each sample transfer and maintaining custody of all samples until they are shipped to the laboratory.

A self-adhesive sample label will be affixed to each container before sample collection. These labels will be covered with clear waterproof tape if necessary to protect the label from water or solvents. The sample label will contain the following information:

- Laboratory Name
- Sample ID Number
- Sample Location
- Sample Matrix
- Date and Time of Sample Collection

- Designation as grab or composite
- Parameters to be Tested
- Preservative Added
- Name of Sampler.

All sampling containers will be supplied by the laboratory, and are to be cleaned by the bottle supplier in accordance with standard laboratory procedures. Analytical proof of cleanliness will be available for review. Sample containers will be enclosed in clear plastic bags and packed with cushioning material (e.g. vermiculite) inside the coolers.

The Site Manager will maintain custody of the sample bottles. Sample bottles needed for a specific sampling task will then be relinquished by the Site Manager to the sampling team after the Site Manager has verified the integrity of the bottles and that the proper bottles have been assigned for the task. The sampler will place a sufficient volume of sample in the appropriate laboratory-grade bottles for use as sample containers. All necessary chemical preservatives will then be added to the bottles after sample collection.

The samples collected for analyses will be stored in an insulated cooler for shipment to the laboratory. The laboratory should receive the samples within 48 hours of sampling. Field chain-of-custody records completed at the time of sample collection will be placed inside the cooler for shipment to the laboratory. These record forms will be sealed in a zip-lock type plastic bag to protect them against moisture. Each cooler will contain sufficient ice packs to insure that an approximate 4°C temperature is maintained, and will be packed in a manner to prevent damage to sample containers. Sample coolers will be sealed with nylon strapping tape and the Site Manager will sign and date a custody seal and place it on the cooler in such a way that any tampering during shipment will be detected.

All coolers will be shipped by an overnight courier according to current US DOT regulations. Upon receiving the samples, the sample custodian at the laboratory will

inspect the condition of the samples, compare the information on the sample labels against the field chain-of-custody record, assign a laboratory control number, and log the control number into the computer sample inventory system. The sample custodian will then store the sample in a secure sample storage cooler maintained at approximately 4°C and maintain custody until the sample is assigned to an analyst for analysis. Custody will be maintained until disposal of the analyzed samples.

The sample custodian will note any damaged sample vials, void space within the vials, or discrepancies between the sample label and information on the field chain-of-custody record when logging the sample. This information will also be communicated to field personnel so proper action can be taken. The chain-of-custody form will be signed by both the relinquishing and receiving parties and the reason for transfer indicated each time the sample custody changes.

An internal chain-of-custody form will be used by the laboratory to document sample possession from laboratory sample custodian to analysts and final disposition. All chain-of-custody information will be supplied with the data packages for inclusion in the document control file.

APPENDIX B

DECONTAMINATION PROCEDURES

DECONTAMINATION PROCEDURES

INTRODUCTION

Decontamination of all field investigation and sampling equipment will follow guidelines established in the USEPA Region II CERCLA Quality Assurance Manual, Final Copy, October 1989, and specific decontamination procedures detailed below.

Equipment cleaning areas will generally be established within or adjacent to the specific work area. The equipment cleaning procedures described below include pre-field, field and post-field cleaning of sampling equipment. The equipment consists of soil and sediment sampling equipment. The non-disposable equipment will be cleaned after completing each sampling event. All rinse water will be contained and treated on site or sent to an approved disposal facility. The site manager will monitor cleaning procedures.

All solvents and water used in the decontamination process will be contained and collected for characterization and proper disposal. Solids (e.g., disposable gloves, disposable clothing, and other disposable equipment) generated from personnel cleaning procedures will be collected for proper disposal. Decontamination procedures will be fully documented in the field notebook.

SAMPLING EQUIPMENT DECONTAMINATION

Typical sampling equipment cleaning materials will include:

- phosphate-free detergent wash;
- potable water (which will be obtained from a treated municipal water source);
- deionized water rinse;

- appropriate cleaning solvent (e.g., pesticide grade hexane or methanol), if required;
- wash basins;
- brushes;
- polyethylene sheeting;
- aluminum foil;
- large heavy duty garbage bags;
- spray bottles;
- zip-lock type bags;
- paper towels/Handiwipes®; and
- non-phthalate, latex, disposable gloves (surgical gloves). Note: These gloves will also be worn by the sampling team and changed between sample points.

All sampling equipment will be stored in a clean environment and, where appropriate, the equipment will be covered in aluminum foil.

Field decontamination procedures, as described below, will include the establishment of cleaning stations. These stations will be located away from the immediate work area so as not to adversely impact the cleaning procedure, but close enough to the sampling teams to keep equipment handling to a minimum.

A designated area will be established to conduct large scale cleaning. All equipment such as drill rigs and excavation equipment will be inspected to determine if an initial cleaning at this location prior to use on-site is needed. The frequency of subsequent on-site cleaning will depend on actual equipment use in the collection of environmental samples or during remedial activities. All fluids and residues produced from the decontamination procedures will be collected and stored on-site until analyses can be

conducted and a decision regarding final disposition of the materials is made pursuant to state and federal requirements.

All non-dedicated sampling equipment (e.g. hand-operated coring devices, knives, hand-augers, bowls) will be cleaned before each use. The field sampling equipment-cleaning procedure when analyzing for organic constituents is as follows:

- Phosphate-free detergent wash;
- Potable water rinse;
- Deionized water rinse;
- Repeat water rinse twice (i.e., triple rinse) and allow to air dry; and
- Wrap equipment completely with aluminum foil to prevent contact with other materials during storage and/or transport to the sampling location.

The initial step, a soap and water wash, is to remove all visible particulate matter and residual oils and grease (this may be preceded by a steam cleaning to facilitate residuals removal). When analyzing for organic constituents when tools appear heavily contaminated, this may be followed by a potable water rinse to remove the detergent and a rinse sequence of solvent (e.g., hexane, and methanol) and deionized water.

All heavy equipment (drill rigs, excavator, etc.) will be steamed cleaned between locations if the equipment comes in direct contact with contaminated media. All down-hole equipment (augers and buckets) will be steam-cleaned between uses at each location. Equipment will be scrubbed manually as needed to remove heavy soils prior to steam cleaning. Clean equipment will be stored in an inactive work area on-site until use.

METER AND FILTER DECONTAMINATION

All meters and probes used in the field will be decontaminated between use as follows:

1. deionized water (triple rinse).

Sampling equipment and probes will be decontaminated in an area covered by polyethylene sheeting near the sampling location.

APPENDIX C
FIELD DOCUMENTATION

FIELD DOCUMENTATION

All the field data, such as those generated during field measurements, observations and field instrument calibrations, will be entered directly into a bound field notebook. Each project team member will be responsible for proofing all data transfers made, and the Site Manager will proof at least ten percent of all data transfers.

One or more bound field notebooks may be maintained for the site; each book will be consecutively numbered. The book(s) will remain with the site evidence file.

All entries in the Logbook will be made in ink. Logbook entries will include but not be limited to the following:

First Page:

- site name and number
- date and time started
- personnel on-site

Subsequent Pages:

- detailed description of investigative activities including sampling, on-site meetings and any problems encountered along with the duration of these activities
- documentation of all personnel monitoring results (e.g. PID readings)
- list of all samples obtained and sample appearance (referenced to field logs if necessary)
- list of personal protection used and documentation procedure

- all other pertinent daily activities

Each new day will contain:

- date and time started
- weather
- personnel on-site
- activity information
- initials of notekeeper

Note: When a mistake is made in the log, it will be crossed out with a single ink line and will be initialed and dated.

Special care will be taken in the description and documentation of sampling procedures. Sampling information to be documented in the field notebook and/or associated forms are as follows:

- sample number
- date and time sample collected
- source of sample (Area, monitoring well number, etc.)
- location of sample - document with a site sketch and/or written description of the sampling location so that accurate resampling can be conducted if necessary
- sampling equipment (trowel, split spoon, sediment corer, etc.)
- analysis and QA/QC required

- chemical preservative used (HCl, HNO_3, H_2SO_4, NaOH, etc.)

- field instrument calibration including date of calibration, standards used and their source, results of calibration and any corrective actions taken.

- field data (pH, temperature, conductivity, etc.)

- field observations - all significant observations will be documented.

- sample condition (color, odor, etc.)

- site condition (stressed vegetation, exposure of buried wastes, erosion problems, etc.)

- sample shipping procedure, date, time, destination and if container seals were attached to transport container(s)

- *comments* - any observation or event that occurred that would be relevant to the facility; for example: weather changes and effect on sampling, conversations with the client, public official or private citizen; and instrument calibration, equipment problems, and field changes.

Delta Environmental Consultants, Inc.

BINGHAMTON PLAZA, INC.

ATTACHMENT 4
HEALTH AND SAFETY PLAN
33 WEST STATE STREET
BINGHAMTON, NEW YORK

5 AUGUST 2005

Prepared for:

Binghamton Plaza, Inc.
30 Galesi Drive, Suite 301
Wayne, New Jersey 07470
Prepared by:

Delta Environmental Consultants, Inc.
185 Jordan Road
Troy, New York 12180

Project No. 0504001P

Inogen® Environmental Alliance

TABLE OF CONTENTS

FIGURES

TABLES

1.0 INTRODUCTION

This document represents the Health and Safety Plan (HASP), which is Attachment 4 of the Site Investigation Work Plan prepared for the Binghamton Plaza site.

This HASP summarizes the intended field activities at the Site and chemicals of concern expected to be present. The HASP then describes the procedures to be followed in conducting the field operations, given the existing data concerning the Site.

2.0 FIELD ACTIVITIES AND CHEMICALS OF CONCERN

A description of the field activities to be conducted is described in the associated Field Activities and Analysis Plan (FAAP) presented as Attachment 2 to the Site Investigation Work Plan. Planned Site activities include groundwater monitoring well and soil boring installation and multi-media sampling. Site activities are planned for the late summer to fall of 2005.

Previous investigative activities at the Site have identified volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs and metals as the primary chemicals of concern. Concentrations of VOCs, SVOCs, PCBs and metals detected in soil and/or groundwater are as follows:

Soil Sample Results

Volatile Organic Compounds (ppb)	
Acetone	28 - 220 ppb
Benzene	ND - 4 ppb
2-Butanone	ND - 47 ppb
Carbon Disulfide	ND - 7 ppb
Cyclohexane	3 - 48 ppb
1,4-Dichlorobenzene	ND - 4 ppb
Ethylbenzene	ND - 5 ppb
Isopropylbenzene	ND - 18 ppb
Methylcyclohexane	ND - 8 ppb
Methylene Chloride	ND - 11 ppb
Toluene	ND - 3 ppb
Vinyl Chloride	ND - 18 ppb
Xylenes (total)	ND - 100 ppb

Semi-Volatile Organic Compounds (ppb)	
Acenaphthene	ND - 2000 ppb
Acenaphthylene	ND - 1800 ppb
Anthracene	ND - 4100 ppb
Benzo(a)anthracene	ND - 7600 ppb
Benzo(b)fluoranthene	ND - 12000 ppb
Benzo(k)fluoranthene	ND - 13000 ppb

Benzo(a)pyrene	ND - 3800 ppb
Chrysene	ND - 10000 ppb
Dibenzo(a,h)anthracene	ND - 1500 ppb
Fluoranthene	ND - 23000ppb
Fluorene	ND - 5100 ppb
Indeno(1,2,3-cd)pyrene	ND - 1800 ppb
2-Methylnaphthalene	ND - 13000 ppb
Naphthalene	ND - 3900 ppb
Phenanthrene	180 - 25000 ppb
Pyrene	ND - 12000 ppb

PCBs Total (ppb)

Aroclor 1242	ND - 340 ppb
Aroclor 1254	ND - 3000 ppb

Metals (ppm)

Arsenic	4.6 - 76.2 ppb
Barium	529 - 57.1 ppb
Cadmium	ND - 220 ppb
Chromium	16.6 - 39.1 ppb
Lead	98.9 - 1200 ppb
Mercury	0.23 - 3.50 ppb
Selenium	ND - 68.8 ppb
Silver	ND - 28.5 ppb

Groundwater Sample Results

Volatile Organic Compounds (ppb)

Acetone	ND - 64 ppb
Benzene	ND - 7.90 ppb
2-Butanone	ND - 18 ppb
Carbon Disulfide	ND - 1.70 ppb
Chlorobenzene	ND - 9.70 ppb
Chloroform	ND - 0.41 ppb
Cyclohexane	0.91 - 23 ppb
1,3-Dichlorobenzene	ND - 0.70 ppb
1,4-Dichlorobenzene	ND - 2.30 ppb
cis-1,2-Dichloroethene	ND - 11 ppb
Ethylbenzene	ND - 1.40 ppb
2-Hexanone	ND - 2.0 ppb

Isopropyl benzene	ND - 4.50 ppb
Methylcyclohexane	ND - 0.62 ppb
Methylene Chloride	ND - 5.90 ppb
MTBE	ND - 0.82 ppb
Tetrachloroethene	ND - 8.60 ppb
Trichloroethene	ND - 5.50 ppb
Vinyl Chloride	ND - 4.0 ppb
Xylenes (total)	ND - 13 ppb

Semi-Volatile Organic Compounds (ppb)

Acenaphthene	ND - 5.0 ppb
Benzo(a)anthracene	ND - 3.0 ppb
Benzo(b)fluoranthene	ND - 4.0 ppb
Chrysene	ND - 3.0 ppb
Fluoranthene	ND - 8.0 ppb
Fluorene	ND - 3.0 ppb
2-Methylnaphthalene	ND - 7.0 ppb
Naphthalene	ND - 16.0 ppb
Phenanthrene	ND - 6.0 ppb
Pyrene	ND - 5.0 ppb

PCBs Total (ppb)

Aroclor 1254	ND - 0.32

Metals (ppb)

Arsenic	ND - 140 ppb
Barium	170 - 3600 ppb
Cadmium	ND - 15 ppb
Chromium	8.8 - 210 ppb
Lead	30 - 4000 ppb
Mercury	ND - 50 ppb
Selenium	All ND
Silver	ND - 88 ppb

3.0 POTENTIAL CHEMICAL AND PHYSICAL HAZARDS

VOCs and SVOC are the main compounds of concern that may be present at the site. Since the field activities involve subsurface disturbance, inhalation (volatiles and dust particles), dermal contact and ingestion are considered the potential pathways of concern.

Since the levels of exposure are considered low, general exposure assumptions are being made to address compliance with OSHA permissible exposure limit (PEL). For VOCs and SVOCs, the exposure limit being used is 5 ppm. The PEL was used to develop action levels for site personnel.

Physical hazards may also be encountered at the Site, especially during drilling activities. Table 3-1 lists potential physical hazards that may be encountered during the field activities. This list has been compiled based on planned activities and potential site conditions.

Table 3-1
Physical Safety Concerns
Binghamton Plaza Site

Hazard	Description	Location	Procedures Used to Monitor/Reduce Hazard
Underground Utilities	Electric, Gas, Sanitary and Storm Sewer	Throughout	Verify number and location of all utilities prior to site operations.
Heat Stress	Hot Weather Activities	Throughout	Protections and monitoring as designated in this HASP
Cold Weather	Frost-bite, Hypothermia	Throughout	Wear appropriate clothing. Provide warm shelter area and liquids. Monitor worker physical conditions.
Heavy Equipment	Drill Rig	Select Areas	All personnel should be cautious around heavy equipment. Make eye contact with operator prior to entering the work area.
Weather	Lightning, Heavy Rain or Snow	Throughout	During lightning, cease all heavy equipment activities. During cold weather, beware of wet and slippery conditions.
Noise	Heavy Equipment	Select Areas	Use appropriate earplugs or earmuffs, during equipment operation.
Overhead Electrical Equipment	Overhead Lines	Select Areas with Heavy Equipment	Maintain at least 10 feet of clearance from any overhead lines.
Struck by Vehicle	Work in Traffic Areas	Parking Lots	Block all work areas off with reflective cones.
Water (Drowning)	Chenango River	West side of the site	Barricade tape to delineate 10 feet limited access area. Use of life preserver working within area. Possible use of lifeline if river conditions are hazardous (fast flow, steep bank, and/or deep water). Use of life preservers for all sampling from boat, raft, dock or similar.

4.0 HAZARDS EVALUATION

Details pertaining to site activities are outlined in the FAAP and QAPP, presented as Attachments 2 and 3, respectively, in the Site Investigation Work Plan.

4.1 SITE MONITORING FOR CHEMICAL HAZARDS

The primary compounds of concern in the work areas are VOCs and SVOCs. Air monitoring (where applicable) and good work practices will be used during the field activities to ensure that appropriate personal protection is used and to minimize potential exposures. Appropriate monitoring equipment to be used during site activities is described herein. All field monitoring will be conducted by or under the supervision of the Site Safety Officer (SSO). The SSO will properly maintain and calibrate all monitoring instruments throughout the field activities to ensure their accuracy and reliability.

4.1.1 Volatile Organic Compound (VOC) Monitoring

Some VOCs and SVOCs have been identified during a previous investigation at the site. Based on the activities being conducted, it is not anticipated that VOC or SVOC exposure, through inhalation, will be of concern. To ensure this, monitoring will conducted during field activities.

Direct reading air monitoring for VOCs/SVOCs will be performed during activities involving potentially contaminated soils, as determined necessary by the SSO. Direct reading instrumentation, such as a photoionization (PID) or flame ionization detector (FID) will be utilized. Based on the exposure levels in the breathing zone of personnel, the SSO will determine if an upgrade in respiratory protection is warranted. These upgrade levels are presented in the following table.

Table 4-1
Personal Protection Action Levels - VOCs
Binghamton Plaza Site

Total VOC Concentration (ppm)	Required Action and/or Personal Protection
Monitor during all operations with the potential to release VOCs.	
Detection Limit to 5 ppm (sustained in breathing zone)	Level D personal protection
5.0 ppm to 500 ppm	Upgrade to Level C personal protection with full-face air purifying respirators with Organic Vapor cartridges. Change cartridges after each days use, (Due to potential vinyl chloride contamination).
Over 500 ppm	Notify the Site Safety Officer for Level B provisions or implement means to control exposure levels.

4.2 PHYSICAL HAZARDS

To minimize hazards, standard safety procedures will be followed at all times. The primary physical safety hazards for this project include, but are not limited to:

- common slip, trip, and fall hazards;
- overhead and buried electrical hazards;
- drill rig operation;
- electrical and power equipment;
- vehicular traffic;
- lifting excessive weights;
- sampling hazards;
- excessive noise levels;
- heat and cold stress;
- water (drowning); and
- other hazards.

4.2.1 Common Slip, Trip, Fall Hazards

Personnel should be aware of common slip, trip or fall hazards that are encountered frequently in industrial and project environments. Particular attention is required near river water edges. Heightened awareness and emphasis on good housekeeping are the most effective ways to prevent accidents.

4.2.2 Overhead and Buried Hazards

Utility lines, both above and below ground, may pose a safety hazard for site personnel during soil boring or other heavy equipment operations. If overhead utilities have been identified on site as a hazard, the equipment operator must maintain a safe clearance between the lines and the equipment at all times during work operations. High voltage lines require greater clearance distances. As a safe work practice, equipment operators will maintain a 10-foot clearance between equipment and power lines or other energized sources unless the source is greater than 350 KV, in which case 29CFR 1910.180(j) must be applied. The location of buried utilities lines must be determined and delineated prior to the start of work activities. Overhead and buried utility and electrical lines may be a concern during all activities. These concerns will be addressed as part of the daily safety meeting.

4.2.3 Drill Rig and Heavy Equipment Operation

Truck-mounted drill rigs and heavy equipment presents multiple hazards while in operation. Excessive noise, boom raising, lowering and swing, cable and hook damage and operator error may result in injuries. To minimize potential accidents, the following safety measures will be required for all operations:

- All operators of equipment used on site will be familiar with the requirement for inspection and operation of such equipment. The operator will be required to demonstrate proficiency in safe operation the equipment;

- All drilling shall be performed from a stable ground position, if unable to locate on level ground, the drill rig shall be appropriately checked, blocked and braced prior to the derrick being raised;

- Daily inspections of the drilling or excavation area shall be made by a person competent in heavy equipment safety. The inspector shall note the safety of the area and confirm the location of utilities;

- Before drilling, the existence and location of utility lines (electric and gas) will be determined by the Site owner. If the knowledge is not available, an appropriate device, such as a cable avoiding tool, will be used to locate the services line(s);

- Operations must be suspended and the area evacuated if the airborne flammable concentration reaches 10 percent of the LEL in an area of an ignition source, such as an internal combustion engine or an exhaust pipe;

- Combustible gas readings of the general work area will be obtained, as required, based on the SSO's determination;

- If drilling equipment is located in the vicinity of overhead power lines, a minimum distance of 10-feet must be maintained between the lines and any point on the equipment;

- Daily inspection of the drill rig and heavy machinery must be conducted and documented by the operator prior to each day's operation: and

- In the event repairs to the drilling rig derrick are required, personnel climbing the derrick to affect such repairs must wear fall restraint systems, including full body harness and lifeline, to prevent an accidental fall.

4.2.4 Tools - Hand and Power

Hand and power tools will be utilized as part of this investigation. All tools used during field activities will conform to the standards set both in OSHA 29CFR-1926.300 - 1926.305. To minimize the potential for any safety related accidents, the following measures will be required:

- All hand and power tools shall be maintained in a safe condition;
- Power operated tools shall be equipped with protective guard when in use;
- All hand-held power tools shall be equipped with a constant pressure switch that will shut off the power when the pressure is released;
- Hand tools shall be kept free of splinters or cracks;
- Electrical power tools shall have double-insulated type grounding;
- Electrical tools should have ground fault circuit interrupters (GFCI) in place for outdoor use;
- Electrical cords are not permitted for hoisting or lowering tools;
- All fuel powered tools shall be stopped while being refueled or maintained; and
- When fuel powered tools are used in enclosed spaces the ambient air will be measured for oxygen and toxic gases.

4.2.5 Vehicular Traffic

Vehicular traffic in and around the facility may pose a hazard to project personnel. Precautions, including reflector vests and cones, should be taken when fieldwork is occurring near traveled areas.

4.2.6 *Lifting Excessive Weights*

Personnel should exercise caution when lifting any object that weighs greater than 50 pounds. For objects, which weigh less than 50 pounds, proper lifting technique is essential to minimize the potential for injury. No excessively bulky objects should be lifted without assistance.

4.2.7 *Sampling Hazards*

Field activities will consist of collecting soil and sediment samples for analysis and evaluation. The hazards of this operation are primarily associated with the sample collection methods and procedures utilized.

The FAAP outlines the standard methods and procedures that will be utilized for sampling activities. Of these specific procedures, none present hazards that are unique to sampling. Potential hazards that may be encountered are described in other sections of the HASP.

4.2.8 *Excessive Noise Levels*

Noise generated by heavy equipment may present a hazard during site operations. Excessive noise can physically damage the ear, hinder communications and startle or annoy the workers. All on-site personnel will wear hearing protection (earplugs or earmuffs) when working near heavy equipment and when noise levels may exceed 85dBA.

4.2.9 *Heat Stress*

Heat stress is the aggregate of environmental and physical work factors that make up the total heat load imposed on the body. The environmental factors of heat stress include air temperatures, humidity, radiant heat exchange, wind and water vapor pressure (related to

humidity). Physical work adds to the total heat stress by producing metabolic heat in the body, proportional to the intensity of work.

Heavy physical labor can greatly increase the likelihood of heat fatigue, heat exhaustion and heatstroke, the latter being a life threatening condition. Heat stress monitoring of personnel shall commence when the ambient temperature is 80°F (70°F if chemical protective clothing is worn) or above. Frequency of monitoring shall increase as the ambient temperature rises. Various control measures shall be employed if heat stress becomes a problem. These include:

- Provision for liquids to replace lost body fluids;
- Establishment of a work/rest schedule that allows for rest periods to cool down; and
- Training workers in the recognition and prevention of heat stress.

Specific steps to implement should ambient temperatures pose a hazard include:

- Site workers will be encouraged to drink plenty of water (or nutrient replacement drinks, such as Gatorade) throughout the day.
- On-site drinking water will be kept cool (50°-60°F) to encourage personnel to drink frequently;
- A work/rest schedule that will provide adequate rest periods for cooling down will be established as required;
- All personnel will be advised of the dangers and symptoms of heat stroke, heat exhaustion and heat cramps;
- Employees should be instructed to monitor themselves and co-workers for signs of heat stress and to take breaks as necessary;
- A shaded rest area must be provided. All breaks should take place in the shaded area;
- Employees shall not be assigned to other tasks during breaks;
- All employees shall be informed of the importance of adequate rest, acclimation and proper diet in the prevention of heat stress disorders; and

- The buddy system shall be practiced at all times on site.

The signs of heat stress disorders are described below.

Heat Cramps

Heat cramps are caused by heavy sweating and inadequate electrolyte replacement. Signs and symptoms include muscle spasms and pain in the hands, feet, and abdomen.

Heat Exhaustion

Heat exhaustion occurs from increased stress on various body organs, signs and symptoms include:

- Pale, cool, moist skin;
- Heavy sweating; and
- Dizziness, nausea, fainting.

Heat Stroke

Heat stroke is the most serious form of heat stress, and should always be treated as a medical emergency. The body's temperature regulation system fails and the body temperature rapidly rises to critical levels. Immediate action must be taken to cool the body before serious injury or death occurs. Signs and symptoms of heat stroke include:

- Red, hot, unusually dry skin;
- Lack of, or reduced, perspiration;
- Nausea;
- Dizziness and confusion;
- Strong, rapid pulse and confusion; and
- Coma.

4.2.10 Cold Stress

Cold and/or wet environmental conditions can place workers at risk of cold related illness. Hypothermia can occur whenever temperatures are below 45°F. It is most common during wet, windy conditions, with temperatures between 40° to 30°F. The principal cause of hypothermia in these conditions is loss of insulating properties of clothing due to moisture, coupled with heat loss due to wind and evaporation of moisture on the skin.

Frostbite, the other hazard associated with exposure to the cold, is the freezing of body tissue, which ranges from superficial freezing of surface skin layers to deep freezing of underlying tissue. Frostbite will only occur when ambient temperatures are below 32°F. The risk of frostbite increases as the temperature drops and the wind speed increases.

Most cold-related worker fatalities have resulted from failure to escape low environmental temperatures or from immersion in low temperature water. The single most important aspect of life-threatening hypothermia is a fall in the deep core temperature of the body.

Site workers should be protected from exposure to cold so that the deep core temperature does not fall below 97°F. Lower body temperatures will very likely result in reduced mental alertness, reduction in rational decision making or loss of consciousness with the threat of fatal consequences. To prevent such occurrence the following measures are recommended:

- Site workers shall wear warm clothing, such as mittens, heavy socks, etc. when the air temperature is below 45°F. Protective clothing or coveralls may be used to shield employees from the wind;
- When the air temperature is below 35°F, clothing for warmth, in addition to chemical protective clothing will be worn by employees. This will include:
- Insulated suits, such as whole body thermal underwear;
- Wool socks or polypropylene socks to keep moisture off the feet;

- Insulated gloves and boots;
- Insulated head cover such as hard hat winter liner or knit cap; and
- Insulated jacket with wind and water-resistant outer layer.

At air temperatures below 35°F the following work practices are recommended:

- If the clothing of a site worker might become wet on the job site, the outer layer of clothing should be water impermeable;
- If a site worker's underclothing becomes wet in any way, they should change into dry clothing immediately. If the clothing becomes wet from sweating (and the employee is not comfortable) the employee may finish the task at hand prior to changing into dry clothing;
- Site workers should be provided with a warm (65°F or above) break area;
- Hot liquids such as soups or warm drinks should be provided in the break area. The intake of coffee and tea should be limited, due to their circulatory and diuretic effects;
- The buddy system shall be practiced at all times on site. Any site worker observed with severe shivering shall leave the work area immediately; and
- Site workers should be dressed in layers, with thinner lighter clothing next to the body.

4.2.11 Water Hazards (Drowning)

The threat of drowning in the Chenango River adjacent to the site on the west edge must be considered. Steps to eliminate this hazard shall be employed as appropriate to the work performed and the location of work. Prevention steps are:

- Keep mechanical equipment 25-feet back from the river bank. Where placement of equipment is required within 25-feet, life vests shall be worn by the operator. No equipment may be driven or operated within 10-feet of the river bank.
- Provide construction tape as barricade 10-feet from the river bank along the entire side. Eliminate foot traffic and work within this 10-foot buffer as feasible. Require life vest on personnel within the buffer zone, including work from boats, rafts, docks or equivalent.

- The SSO shall determine the need for the use of lifelines in addition to vests. High and/or fast moving water may dictate such use.
- Personnel working from boats must se life vests at all times.

4.2.12 Other Hazards

Insects

Insects including mosquitoes, biting flies, wasps, and bees may be encountered particularly in warm weather. Insect repellents (lotion form) should be available and used as required.

Other Vermin

Vermin including snakes and small mammals may be encountered particularly at river's edge. Rubber boots should be available and worn as required.

5.0 PERSONNEL RESPONSIBILITIES

A Health and Safety Management Team has been developed for the site investigation field activities. The following responsibilities will be assigned to designated project personnel for all activities.

The Site Manager will act in a supervisory capacity over all employees who participate in the field activities specified in this work plan. The Site Manager is responsible for ensuring that health and safety responsibilities are carried out in conjunction with the work plan. As part of these responsibilities, the Site Manager will distribute the HASP to all field team personnel and discuss the HASP prior to the start of field activities. All field personnel will sign the Health and Safety Plan Review Record shown in Figure 5-1, verifying that they have read and are familiar with the contents of this HASP.

The Site Safety Officer (SSO) will be responsible for oversight, implementation and compliance of applicable health and safety regulations on-site. The SSO has the following authority and responsibilities:

- responsibility for the field implementation, evaluation and any necessary field modifications of this HASP;
- responsibility for maintaining adequate supplies of all personal protective equipment, as well as calibration and maintenance of all HASP monitoring instruments;
- authority to suspend field activities due to imminent danger situations;
- responsibility to initiate emergency response activities;
- presentation and documentation of field safety briefings;
- maintain daily log of all on-site safety activities; and
- oversight of health and safety practices for subcontractors.

Figure 5-1
HASP Plan Review Record
Binghamton Plaza Site

HEALTH AND SAFETY PLAN REVIEW RECORD

I have read the Health and Safety Plan for the Site and have been briefed on the nature, level and degree of exposure likely as a result of participation in this project. I agree to follow all the requirements in the Health and Safety Plan.

_____ _____

Employee Signature Date

_____

Name

_____ _____

Site Manager Signature Date

_____

Name

Subcontractors will be provided with a copy of this HASP and will be informed of health and safety concerns, as well as environmental monitoring data collected during field activities. This information will be shared with the subcontractors to assist them in implementing the appropriate health and safety measures. Contractors will be required to prepare and implement their own HASP that is at least as stringent as this project HASP. The contractor is not responsible for the health and safety of subcontractors or other site or facility personnel.

6.0 MEDICAL SURVEILLANCE AND TRAINING

All personnel who are potentially exposed to site contaminants must participate in a medical surveillance program as defined by OSHA at 29 CFR 1910.120 (f), 20 CFR 1910.134 (if respirators worn), and blood lead level screening in accordance with 29 CFR1926.62. All personnel working at the Site will also possess current safety and health training as defined by OSHA at 29 CFR 1910.120.

6.1 MEDICAL SURVEILLANCE

Initial Medical Exams: All potentially exposed personnel and respirator users must have completed a comprehensive medical examination prior to assignment, and periodically thereafter as defined by applicable OSHA Regulations. The initial and periodic medical examinations may include the following elements:

- Medical and occupational history questionnaire;
- Physical examination;
- Complete blood count, with differential;
- Liver enzyme profile;
- Blood lead levels,
- Chest X-ray, at a frequency determined by the physician;
- Pulmonary function test;
- Audiogram;
- Electrocardiogram for persons older than 45 years of age, or if indicated during the physical examination;
- Drug and alcohol screening, as required by job assignment;
- Visual acuity; and
- Follow-up examinations, at the discretion of the examining physician.

The examining physician provides the employer and employee with a letter summarizing his findings and recommendations, confirming the worker's fitness for work and ability to wear a respirator. Documentation of medical clearance will be available for each employee during all project site work. Medical clearance will also include the most recent fit testing for all respirator users, current within the last six months.

Subcontractors will certify that all their employees have successfully completed a physical examination by a qualified physician. The physical examinations must meet the requirements of 29 CFR 1910.120, 29 CFR1926.62, and 29 CFR 1910.134. Subcontractors will supply copies of the medical examination certificate for each on-site employee.

Other Medical Examinations: In addition to pre-employment, annual, and exit physicals, personnel may be examined:

- At employee request after known or suspected exposure to toxic or hazardous materials;
- At the discretion of the client, HS professional, or occupational physician in anticipation of, or after known or suspected exposure to toxic or hazardous materials; and
- At the discretion of the occupational physician.

Periodic Exam: Following the initial examination, all site personnel must undergo a periodic examination, similar in scope to the initial examination.

Medical Restrictions: When the examining physician identifies a need to restrict work activity, the employee's supervisor must communicate the restriction to the employee and the Site Manager. The terms of the restriction will be discussed with the employee and the Site Manager.

6.2 HEALTH AND SAFETY TRAINING

All personnel working at the Site will participate in health and safety training, including:

- Initial 40-hour HAZWOPER training;
- Annual eight-hour HAZWOPER training following the initial 40-hour training; and

- The SSO will also conduct daily briefings with all site employees covering the activities and safety procedures.

Documentation of training will be available for each employee during the Site Investigation.

7.0 PERSONAL PROTECTIVE EQUIPMENT

7.1 PURPOSE/APPROACH

A critical aspect of field crew safety is appropriate personal protective equipment (PPE). PPE refers to the types of footwear, headwear, eyewear, ear wear, coveralls, gloves and respiratory protection each individual will wear while performing a specific task(s) and exposed to a particular chemical(s) at a given concentration(s). The levels of PPE are referred to as Level D, Level C and Level B; with Level D requiring the least amount of PPE and Level B the most.

The SSO will decide when it is necessary to upgrade, downgrade or modify the existing level of protection based on field monitoring and action levels described in Section 4.0. The SSO will make entries in the health and safety field book detailing each days PPE, task and if the level of PPE is modified, the reason for each change. All investigation field activities will be performed as a minimum in Level D. Each level's PPE requirements may be modified by the SSO as needed. The different levels of PPE and equipment required at each level are described in the following sections and are based on 29 CFR 1910.120.

7.2 LEVEL D PROTECTION

Level D PPE will consist of the following:

- Coveralls or a work uniform affording protection for nuisance contamination;
- Steel-toe, steel-shank work boots;
- Safety glasses; and
- Hard hat (if working around equipment or machinery).

Note: Hand washing is imperative following any contact with soils.

Optional Equipment or as Required by the SSO

- Disposal or rubber outer boots.
- Chemical resistant gloves (recommend nitrile, neoprene, or latex).
- Hearing protection.
- Disposable outer chemical coveralls.

7.3 LEVEL C PROTECTION

Level C PPE will consist of:

- Full-face air purifying respirator (APR) equipped with appropriate P100 (HEPA equivalent) and/or organic vapor cartridges. Note: All personnel requiring respiratory protection must be medically approved and "fit-tested" with the respirator to be used. Appropriate powered air-purifying respirators (PAPR) may be utilized if specified by the SSO. Only with the approval of the SSO can half-mask air purifying respirators be donned. Chemical cartridges will be changed on a daily basis;
- Chemical-resistant clothing such as Tyvek®, poly-coated Tyvek® or Saranex®;
- Outer chemical-resistant (recommend nitrile or neoprene) gloves and inner latex surgical gloves (outer gloves should be taped to the clothing sleeve);
- Steel-toe, steel-shank work boots with Tyvek® or rubber boot coverings (over boots should be taped to clothing leg); and
- Hard hat (if working around equipment or machinery).

Optional Equipment as Required by the SSO

- Escape SCBA.
- Hearing protection.

7.4 LEVEL B PROTECTION

Level B PPE will consist of:

- Self-contained breathing apparatus (SCBA) in a pressure demand mode, or supplied air with escape SCBA in the pressure demand mode;
- Chemical-resistant clothing such as Tyvek®, poly-coated Tyvek® or Saranex®;
- Outer chemical-resistant (recommend nitrile or neoprene) gloves and inner latex surgical gloves (outer gloves should be taped to the clothing sleeve); and
- Steel-toe, steel-shank work boots with rubber over boots (over boots should be taped to clothing leg); and
- Hard hat (if working around equipment or machinery).

8.0 SITE OPERATION AREAS AND DECONTAMINATION

Site operation areas will be formally set up for all field activities. Personal decontamination procedures will be closely adhered to upon entering or leaving all work areas. Section 8.1 describes the three zones used to control site operation areas and Section 9.0 describes decontamination procedures.

8.1 SITE OPERATION AREAS

A three-zone control system will be used during activities as determined necessary by the SSO. The purpose of the zones is to control the flow of personnel to or from potentially contaminated work areas. Guidelines for establishing these zone/areas are as follows:

Exclusion Zone (EZ): Primary exclusion zones will be established around each field activity and, at a minimum, this zone will radiate to a distance of 25 feet from the point of operations. Appropriate personal protective equipment must be worn in this zone. This zone will be separated from the contaminant reduction zone by cones or barrier tape to prevent personnel from entering the exclusion zone boundary without appropriate protective equipment or leaving without proper decontamination.

Contaminant Reduction Zone (CRZ): The CRZ is the transition area between the EZ and the Support Zone (clean area). All personnel and equipment must be decontaminated in the CRZ upon exiting the EZ and before entering the Support Zone. The CRZ will be set up along the perimeter of the EZ at a point upwind of field activities.

Support Zone (SZ): The support zone is considered to be uncontaminated; as such, protective clothing and equipment are not required but should be available for use in emergencies. All equipment and materials are stored and maintained within this zone. Protective clothing is donned in the support zone before entering the contaminant reduction zone.

9.0 DECONTAMINATION GUIDELINES

In the situation where work areas are controlled using the three-zone concept, all personnel must exit the EZ through an established CRZ. At a minimum, CRZ provisions will include a potable water supply, wash buckets or sprayers, cleaning tools, hand soap and clean towels. The applicable CRZ sequence of events should include:

- Wash outer boots, coveralls and outer gloves;
- Remove any outer boot or glove tape;
- Remove outer boots and either store or properly dispose of the boots;
- Re-clean and remove outer gloves. If gloves will be reused, inspect and stage the gloves; otherwise properly dispose of the gloves;
- Remove chemical resistant coveralls with care so that hands or inner clothing do not come in contact with any contaminated surfaces. Properly dispose of coveralls;
- Remove respirator and stage in CRZ area. Respirators shall be cleaned and disinfected with a sanitizing agent between uses;
- Remove and dispose of inner gloves; and
- Thoroughly wash hands and face.

All contaminated equipment (such as the drill rig, excavator/back-hoe, tools and sampling equipment, etc.) will be thoroughly decontaminated prior to leaving the EZ. The extent of the decontamination (such as a separate decontamination pad) will be determined by the SSO. The SSO will be responsible for inspecting the decontamination of all equipment prior to leaving the EZ and the Site.

For fieldwork not using the three-zone concept (e.g., soil and sediment sampling with hand-operated equipment) portable wash stations will be utilized for easy and efficient access. The wash station shall consist of a potable water supply, hand soap and clean towels. Portable sprayer units filled with Alconox® solution (or equivalent) and potable

water will also be available to wash and rinse off grossly contaminated boots, gloves and equipment. The SSO will monitor decontamination procedures to ensure their effectiveness. Modifications of the decontamination procedure may be necessary as determined by the SSO.

9.1 MANAGEMENT OF GENERATED WASTES

All wash and rinse waters, discarded health and safety equipment and discarded sampling equipment will be segregated and placed in appropriate containers, as required. These containers will be properly labeled and stored in a secure area on site while arrangements are made for disposal.

10.0 SITE ACCESS AND SITE CONTROL

Access to site activities will be limited to authorized personnel and should be coordinated with the site Owner. Such authorized personnel include contractor's employees, subcontractors and representatives of the site Owner. However, access into the established contaminant reduction and exclusion zones will be limited to those authorized personnel with required certifications and wearing appropriate personal protective equipment. The exclusion zones will be monitored by the SSO to ensure personnel do not enter without proper personal protection equipment.

All work zones will be clearly marked and roped or fenced off to insure that non-authorized personnel are kept at a safe distance. Excavations or trenches/ditches will be secured during off-hours and any stockpiled soils will be covered with plastic.

11.0 EMERGENCY RESPONSE

In the event of an emergency, the SSO will coordinate response activities. Appropriate authorities will be notified immediately of the nature and extent of the emergency. Table 11-1 provides emergency telephone numbers that will be posted within the support zone or any other visible location. Directions to the nearest hospital are also included on Table 11-1.

11.1 RESPONSIBILITIES

The SSO will be responsible for initiating response to all emergencies, and will:

1. Notify appropriate individuals, authorities and health care facilities of the activities and hazards of the field activities.
2. Ensure that the following safety equipment is available: eyewash provisions, first aid supplies and fire extinguisher.
3. Have working knowledge of all safety equipment.
4. Ensure that directions of the most direct route to the nearest hospital is present with the emergency telephone numbers.
5. For a release incident or major vapor emission, determine safe distances and places of refuge.
6. For a release incident or major vapor emission, contact the local emergency response coordinator (Fire Department) and NYSDEC Spill Response (if appropriate).

Table 11-1
Emergency Contacts
City of Binghamton

Project Health and Safety Coordinator:

.....TBD

Project Director:

..... Jim Blasting

Project Manager:

..... Matt Bell

Ambulance 911

Hospital (Binghamton General)..... (607) 762-2231

Fire Dept. 911

NYSDEC Spill Hotline.....1-800-457-7362

Police (New York State Police).....911

Police (City of Binghamton) 911

Directions to Hospital: From the site: (MapQuest directions to follow)

Start out going SOUTH on W. State Street toward N. Way Street	1.0 miles
Turn slight left onto NY-434 W.	0.5 miles
Turn left onto S. Washington Street	<0.1 miles
Turn left onto Mitchell Avenue	0.3 miles
End at Binghamton, NY 13903-1617, US	

11.2 ACCIDENTS AND INJURIES

In case of a safety or health emergency at the Site, appropriate emergency measures will immediately be taken to assist those who have been injured or exposed and to protect others from hazards. The SSO will be immediately notified and will respond according to the seriousness of the injury.

11.3 SITE COMMUNICATIONS

Telephones (either temporary landlines or cellular) will be located prior to the start-up of field activities, and will be used as the primary off-site communication network. Radios will be used at the Site, as needed.

11.4 RESPONSE EVALUATION

The effectiveness of response actions and procedures will be evaluated by the SSO. Improvements will be identified and incorporated into this and future plans.

12.0 ADDITIONAL SAFETY PRACTICES

The following safety precautions will be enforced during the field activities.

1. Eating, drinking, chewing gum or tobacco, smoking or any practice that increases potential hand-to-mouth transfer and possible ingestion of material is prohibited in areas designated as contaminated by the SSO.

2. Hands and face must be thoroughly washed upon leaving the work area and before eating, drinking or any other activity.

3. Whenever decontamination procedures for outer garments are in effect, the entire body should be thoroughly washed as soon as possible after the protective garment is removed.

4. No facial hair that may interfere with the effectiveness of a respirator will be permitted on personnel required to wear tight fitting respiratory protection. The respirator must seal against the face so that the wearer receives air only through the air purifying cartridges. Fit-testing shall be performed prior to respirator use to ensure a proper seal is obtained.

5. Even when wearing protective clothing, contact with potentially contaminated surfaces should be avoided when possible. One should not walk through puddles; mud or other discolored surfaces; kneel on ground; lean, sit or place equipment on drums, containers, vehicles or the ground.

6. Medicine and alcohol can enhance the effect from exposure to certain compounds. Alcoholic beverages will not be consumed during work hours by personnel involved in the project. Personnel using prescription drugs during the project may be precluded from performing specific tasks (e.g. operating heavy equipment) without authorization from a physician.

7. Personnel and equipment in the work areas will be minimized.

8. Work areas and decontamination procedures will be established based on prevailing site conditions.

9. Respirators will be issued for the exclusive use of one worker and will be cleaned and disinfected after each use.

10. Cartridges for air-purifying respirators in use will be changed on a frequency determined by the SSO, with detectable odor/breathing resistance or after each day's use, whichever is shorter.