New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21ST Street, Long Island City, NY 11101-5407
Phone: (718) 482-4995 • **FAX:** (718) 482-6358
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

May 7, 2004

Ira L. Whitman, Ph. D., P.E.
The Whitman Companies, Inc.
116 Tices Lane, Unit B-1
East Brunswick, NJ 08816

Dear Dr. Whitman:

Re: Dexter Chemical, Bronx, NY., VCP # V00186-2
Investigation Work Plan: Results of Remedial Investigation at "Area I", Remedial Investigation Work Plan, And Work Plan For Pilot Test at "Area A" dated February 2004

The New York State Departments of Environmental Conservation (NYSDEC) and Health (NYSDOH) have reviewed the above referenced Report and your responses to our previous comments. While most of our comments have been adequately addressed, Dexter's response to our concern on potential for soil gas intrusion is not acceptable. Analyzing a soil gas sample does not address the potential for release of soil gas vapors. These soil vapors are of concern as these may collect in basements and other parts of onsite and offsite buildings. With the contaminated groundwater, these vapors may even travel long distances away from the source. Soil gas samples must be collected at several locations to determine the extent of soil gas originating from onsite sources. As a responsible party volunteer, Dexter must also determine the potential for soil gases to impact nearby receptors. NYSDOH requires Dexter to present a soil gas proposal for its entire site, so that its escape potential can be evaluated.

We reviewed the August and October 2003 additional soil sampling results. While we are not surprised at the levels of contamination in soils in the alleyway, based upon our understanding of the site use, we did not expect any soil contamination in the 842 Whittier Street building. While the investigation has identified hot spots, the source location(s) remain unclear. Since most contamination is found in soils in the 7-8 ft interval with its conspicuous absence in shallow soils, the contamination appears to have been caused by leaks from one or more of the USTs, as opposed to surface leaks and disposals as believed previously. A clear understanding of the source areas is needed to design the remedy.

Your proposal for an SVE/ AS pilot test is acceptable; we, however, believe it may be necessary to do another test in Area I because the site conditions in the two areas are different. You may proceed with the pilot test, but the pilot test results, soil gas characterization results, and a detailed design of the SVE/ AS system must be submitted for Department approval prior to proceeding with the full-scale implementation. A full round of groundwater baseline sampling should be included in your schedule. Dexter would need to demonstrate that the groundwater plume leaving the site is not impacting Bronx River and (any other) near-by receptors.

From: Hari Agrawal
To: Internet: iwhitman@whitmanco.com
Date: 5/7/04 2:45PM
Subject: Dexter Investigation Plan and Pilot Study

The New York State Departments of Environmental Conservation (NYSDEC) and Health (NYSDOH) have reviewed the above referenced Report and your responses to our previous comments. While most of our comments have been adequately addressed, Dexter's response to our concern on potential for soil gas intrusion is not acceptable. Analyzing a soil gas sample does not address the potential for release of soil gas vapors. These soil vapors are of concern as these may collect in basements and other parts of onsite and offsite buildings. With the contaminated groundwater, these vapors may even travel long distances away from the source. Soil gas samples must be collected at several locations to determine the extent of soil gas originating from onsite sources. As a responsible party volunteer, Dexter must also determine the potential for soil gases to to impact nearby receptors. NYSDOH requires Dexter to present a soil gas proposal for its entire site, so that its escape potential can be evaluated.

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If you have any questions or concerns , please don't hesitate to contact me as soon as possible at 718-482-4909. If you so desire, we can also, in a conference call with the NYSDOH, discuss the scope of the soil gas investigation prior to your sending a formal proposal.

CC: Walsh, Daniel

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21ST Street, Long Island City, NY 11101-5407
Phone: (718) 482-4995 • **FAX:** (718) 482-6358
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

May 7, 2004

Ira L. Whitman, Ph. D., P.E.
The Whitman Companies, Inc.
116 Tices Lane, Unit B-1
East Brunswick, NJ 08816

Dear Dr. Whitman:

Re: Dexter Chemical, Bronx, NY., VCP # V00186-2
Investigation Work Plan: Results of Remedial Investigation at "Area I", Remedial Investigation Work Plan, And Work Plan For Pilot Test at "Area A" dated February 2004

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Your proposal for an SVE/ AS pilot test is acceptable; we, however, believe it may be necessary to do another test in Area I because the site conditions in the two areas are different. You may proceed with the pilot test, but the pilot test results, soil gas characterization results, and a detailed design of the SVE/ AS system must be submitted for Department approval prior to proceeding with the full-scale implementation. A full round of groundwater baseline sampling should be included in your schedule. Dexter would need to demonstrate that the groundwater plume leaving the site is not impacting Bronx River and (any other) near-by receptors.

If you have any questions or concerns , please don't hesitate to contact me as soon as possible at 718-482-4909. If you so desire, we can also, in a conference call with the NYSDOH, discuss the scope of the soil gas investigation prior to your sending a formal proposal.

Sincerely

Hari O. Agrawal, P.E.
Environmental Engineer

cc:
Daniel Walsh
Amar Nagi
Dawn Hettrick, NYSDOH
Rosalie Rusinko, DEE, Tarrytown

STATE OF NEW YORK
DEPARTMENT OF HEALTH

Flanigan Square, 547 River Street, Troy, New York 12180-2216

Antonia C. Novello, M.D., M.P.H., Dr.P.H.
Commissioner

Dennis P. Whalen
Executive Deputy Commissioner

April 30, 2004

Mr. Hari Agrawal, P.E.
NYS Department of Environmental Conservation
Division of Environmental Remediation, Region 2
46-40 21st Street
Long Island City, NY 11101

Re: Investigation Work Plan
Dexter Chemical
Site #V00186-2
Bronx, Bronx County

Dear Mr. Agrawal:

I have reviewed the Investigation Work Plan for the Dexter Chemical. This document outlines the results of the remedial investigation at "Area I", the work plan for a pilot test at "Area A", and responses to comments on the "Summary of Site Investigation and Proposed Remedial Action".

The consultant's response to my request for an evaluation of soil gas as an individual media is unacceptable. It is obvious that they do not understand the intent of my comment. The consultant's monitoring of the SVE discharge is an unacceptable substitute for evaluating area soil gas. It is necessary to sample soil gas at several locations to determine the extent of soil gas originating from on-site sources. As a responsible party volunteer, Dexter Chemical must also determine the potential for soil gases to impact nearby receptors.

A pilot test of an air sparge/SVE in "Area A" is acceptable. However, soil gas needs to be appropriately characterized before any full-scale implementation of an air sparge/SVE system. Furthermore, submission of an interim remedial measure or remedial action work plan for management review and approval is necessary before this method can be considered as a remedy for VOC contamination on the site.

The volunteer should develop and submit for review a work plan to assess area soil gas. This work plan should evaluate the impacts of on-site source areas and the potential for soil gases to migrate off-site and impact nearby structures. If you or the volunteer's consultant have any questions, please contact me at (518) 402-7880. I look forward to satisfactory resolution of the soil gas issue and progression of this project.

Sincerely,

Dawn E. Hettrick, P.E.
Senior Sanitary Engineer
Bureau of Environmental Exposure Investigation

cc: G. Litwin/G. Laccetti/file
J. Prudhomme – NYC DOHMH
A. Nagi/D. Walsh – DEC Region 2
P. D. Smith – DEC

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THE
WHITMAN
COMPANIES, INC.

Setting the Standard in
Environmental Engineering & Management

REVIEW
Copy

INVESTIGATION WORKPLAN:

RESULTS OF REMEDIAL INVESTIGATION AT "AREA I", REMEDIAL INVESTIGATION WORKPLAN, AND WORKPLAN FOR PILOT TEST AT "AREA A"

FOR

DEXTER CHEMICAL, LLC
845 EDGEWATER ROAD
BRONX, NEW YORK
SITE #: V00186-2
INDEX #: W2-0864-03-08

SUBMITTED TO:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION, REGION 2
LONG ISLAND CITY, NY

VOLUME 1
TEXT, TABLES, FIGURES AND ATTACHMENTS

PERFORMED BY

THE WHITMAN COMPANIES, INC.

FEB 20 2004

FEBRUARY 2004

THE
WHITMAN
COMPANIES, INC.

Corporate Headquarters
116 Tices Lane, Unit B-1
East Brunswick, NJ 08816

Tel: 732.390.5858 • Fax: 732.390.9496
Email: whitman@whitmanco.com
Internet: www.whitmanco.com

February 17, 2004

Hari O. Agrawal, P.E.
New York Sate Department of Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street
Long Island City, NY 11101

RE: Dexter Chemical, LLC
819-845 Edgewater Road
810-842 Whittier Street
Bronx, New York
Site # V00186-2
Index # W2-0864-03-08
Whitman Project #97-09-10

Dear Mr. Agrawal:

Enclosed are one original and three copies (one unbound) of a report entitled, "*INVESTIGATION WORKPLAN: Results of Remedial Investigation at Area I, Remedial Investigation Workplan, and Workplan for Pilot Test At Area A.*"

This workplan represents the first report to be submitted under the Voluntary Cleanup Agreement recently executed between Dexter Chemical, LLC and the New York State Department of Conservation (NYSDEC).

This report summarizes the July 17, 2003 onsite meeting between NYSDEC and Dexter, and details the recent investigation activities conducted at Area I. This report also presents a proposal and schedule for air sparging which is the recommended remediation approach for Areas A and I on the property. This report concludes with responses to comments received from the NYSDEC in a letter dated January 29, 2004.

Dexter is eager to move forward with activities at the site and requests an expedited review and response to this report. Please contact Richard Britton P.G., or me should you have any questions regarding the contents of this investigation workplan or the status of our investigation.

Sincerely, for ILW

Ira L. Whitman, P.E.
Principal

ILW/dr

cc: Leonard Sitver, Dexter Chemical, LLC
Kenneth Ballan, Dexter Chemical, LLC
Richard Conway, Esq., Schenck, Price, Smith & King, LLP
Rosalie K. Rusinko, Esq., NYSDEC
Dennis C. Walsh, Ph.D., NYSDEC
Gary Litwin, NYSDOH
Richard Britton P.G., The Whitman Companies, Inc.
Michael Percelay, The Whitman,Companies, Inc.
Michael Kneucker P.E., Environmental Management Associates, Inc.

INVESTIGATION WORKPLAN:

RESULTS OF REMEDIAL INVESTIGATION AT "AREA I", REMEDIAL INVESTIGATION WORKPLAN, AND WORKPLAN FOR PILOT TEST AT "AREA A"

DEXTER CHEMICAL, LLC
BRONX, NEW YORK

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3. Laboratory Data Summary Sheets – August 14, 2003
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7. Enviro-Sciences UST Figure
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VOLUMES

Volume 1 – Text, Tables, Figures and Attachments
Volume 2A-B – Laboratory QA/QC Data Packages

INVESTIGATION WORKPLAN:
RESULTS OF REMEDIAL INVESTIGATION AT "AREA I", REMEDIAL INVESTIGATION WORKPLAN, AND WORKPLAN FOR PILOT TEST AT "AREA A"

DEXTER CHEMICAL, LLC
BRONX, NEW YORK

1.0 INTRODUCTION

Dexter Chemical, LLC (Dexter) is submitting this report under the recently executed (December 4, 2003) Voluntary Cleanup Program Agreement (VCA) between Dexter and the New York State Department of Conservation (NYSDEC).

This report summarizes the July 17, 2003 onsite meeting between NYSDEC and Dexter, details the recent investigation activities conducted at Area I, provides a Remedial Investigation Workplan to complete delineation activities at Area I, provides a workplan to conduct an air sparging/soil vapor extraction pilot test at Area A, as discussed at our July 2003 meeting, and concludes with responses to comments received from the NYSDEC in a letter dated January 29, 2004.

1.1 Data Evaluation

All sample analysis was performed by Integrated Analytical Laboratories LLC, of Randolph New Jersey (IAL) a NYS Department of Health certified laboratory (ELAP# 11402). The laboratory QA/QC analytical data packages (Volume 2) were evaluated to provide an interpretation of data usability and reliability based upon adherence to quality control parameters. The evaluation was performed using the case narrative summaries provided by IAL, which were included with the analytical results of the August 14, 2003 and October 9, 2003 soil sampling events performed by The Whitman Companies, Inc. (Whitman). The soil samples collected were analyzed for VOC+10 using EPA Method 8260, modified to include quantification for 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, and Naphthalene.

There were no data deficiencies, analytical protocol deviations and quality control problems identified during the review of the laboratory QA/QC analytical data packages.

2.0 JULY 2003 NYSDEC-DEXTER SITE MEETING

On July 17, 2003, a site meeting was held at the Dexter facility between Dexter and NYSDEC. Both parties viewed the meeting as part of a transition from the site investigation phase towards the development and implementation of a site remediation program. In attendance at this meeting were:

- Dennis C. Walsh, Ph.D., NYSDEC
- Amarinderjit S. Nagi, P.E., NYSDEC
- Hari O. Agrawal, P.E., NYSDEC
- Leonard Sitver, Dexter Chemical, LLC
- Kenneth Ballan, Dexter Chemical, LLC
- Bob Nanes, Dexter Chemical, LLC
- Ira Whitman, P.E., The Whitman Companies, Inc.
- Richard Britton, P.G., The Whitman Companies, Inc.

Dr. Walsh's synopsis of the VCA agreement was very helpful, particularly with regard to the following aspects that clearly have a potential impact on Dexter's remediation program:

- NYSDEC has discretionary authority under the VCA with regard to the extent of the cleanup required.

- Under the VCA, NYSDEC can approve a remediation program that will allow some residual contamination to be contained in place, rather than be remediated to fully meet the applicable soil cleanup standards.

- While the State views source removal as the preferred alternative wherever feasible, in-situ remediation methodologies are acceptable and are likely to be approved by NYSDEC in this case.

At the July 17, 2003 site meeting, Dexter agreed to investigate the feasibility of installing and operating an in-situ program of air sparging/soil vapor extraction to remediate soil contamination in Area A.

3.0 AREA B

The status of Area B (Figure 1) as an area not requiring remediation has been questioned during recent conversation with NYSDEC Case Manager, Hari Agrawal, P.E. As detailed in Section 4.3 of Whitman's June 2003 report entitled, "Summary of Site Investigation and Proposed Remedial Actions," all exceedances of Polynuclear Aromatic Hydrocarbons (PAHs) and Priority Pollutant Metals (PPM) identified in Area B are clearly associated with the historic fill and cinder materials used to raise the topographic elevation of the site prior to development and are not associated with current or past manufacturing operations. Boring logs provided in the June 2003 report document the prevalence of black cinder and coal-like fill material that characterizes subsurface materials in the vicinity of Area B. No further investigation regarding the presence of hydrocarbons is warranted for Area B.

Reponses to Area B questions posed by NYSDEC Case Manager, Hari Agrawal via letter on January 29, 2004 are presented in Section 7.0 of this report.

4.0 SUMMARY OF AREA I SOIL INVESTIGATION AND PROPOSED ADDITIONAL SAMPLING

In order to delineate the extent of soil contamination in Area I, Whitman advanced soil borings and collected soil samples in Area I on August 14, 2003 and October 9, 2003. The soil boring logs are presented in Attachment 1. The soil borings were installed by Environmental Probing Investigations (EPI) of Cream Ridge, New Jersey, under Whitman supervision. The sample analysis was performed by Integrated Analytical Laboratories LLC, of Randolph New Jersey (IAL) a NYS Department of Health certified laboratory (ELAP# 11402).

Based on review of historic results (Table 1), the samples collected were analyzed for VOC+10 using EPA Method 8260, modified to include quantification for 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, and Naphthalene. As shown in Attachment 2, it is acceptable to analyze 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, and Naphthalene via EPA Method 8260.

4.1 August 2003 Sampling Event

On August 14, 2003, Whitman supervised the installation of eight (8) soil borings, AISB-1 through AISB-8 (Figure 2). Samples were collected from each boring at various depths to

evaluate subsurface contamination. A total of nineteen (19) samples were collected for laboratory analysis. The samples collected were analyzed for VOC+10 using EPA Method 8260 modified to include quantification for 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, and Naphthalene. The sample analysis was performed by IAL.

The analytical results of the samples collected August 14, 2003 are summarized in Table 2A. Historic analytical results for Area I are summarized in Table 1. Laboratory analytical summary data sheets are presented in Attachment 3. A complete laboratory QA/QC data package is included as Volume 2.

Examination of Figure 2 and Table 2A indicate soil samples AISB-1B, AISB-3B, AISB-3C and AISB-4C exceed the NYSDEC TAGM Recommended Soil Cleanup Objective and that additional soil sampling would be required to delineate the full extent of contamination in Area I. Concentrations of Total Xylenes and 1,2,4-Trichlorobenzene were identified above the NYSDEC TAGM Recommended Soil Cleanup Objectives consistent with historical results.

4.2 October 2003 Sampling Event

On October 9, 2003, Whitman supervised the installation of seven (7) additional soil borings, AISB-9 through AISB-13, AISB-4R and AISB-5R in Area I (Figure 2). Samples were collected from each boring at various depths to delineate the extent subsurface contamination. A total of eighteen (18) samples were collected for laboratory analysis. The samples collected were analyzed for VOC+10 using EPA Method 8260 modified to include quantification for 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, and Naphthalene. The sample analysis was performed by IAL.

The analytical results of the samples collected on October 9, 2003 are summarized in Table 2B. Historic analytical results for Area I are summarized in Table 1. Laboratory analytical summary data sheets are presented in Attachment 4. A complete laboratory QA/QC data package is included as Volume 2.

Examination of Figure 2 and Table 2B indicates soil samples AISB-9A, AISB-10A, and AISB-10B exceed the NYSDEC TAGM Recommended Soil Cleanup Objectives. Concentrations of Total Xylenes, 1,2,4-Trichlorobenzene, and Naphthalene were identified above the NYSDEC TAGM Recommended Soil Cleanup Objectives, consistent with historical results.

4.3 Evaluation of Area I Results

In order to evaluate if soil contamination identified in Area I has been fully delineated, the limits of soil exceeding the NYSDEC Recommended Soil Cleanup Objectives were plotted on Figure 3. In addition, two cross-sections showing the vertical extent of contamination were prepared to estimate the volume of contaminated soil in Area I (Figures 4 and 5).

Examination of Figures 3-5 shows that soil contamination in Area I covers an area approximately 50 feet wide by 75 feet long and extends to a depth of 15 feet. Delineation in Area I is complete except north of boring locations AISB-9 and AISB-10.

Elevated concentrations of Xylene, 1,2,4-Trichlorobenzene, and Naphthalene have also been identified at Area A, although Area I contaminant concentrations are an order of magnitude lower than those found at Area A.

As discussed at our July 17, 2003 site meeting, Dexter agreed to investigate the feasibility of installing and operating an in-situ program of air sparging/soil vapor extraction to remediate soil contamination in Area A. As a first step in this process, Dexter is proposing to conduct an air sparging/soil vapor extraction pilot test. Implementation details of this pilot test are included in Section 5.0 of this report. If the pilot test is deemed successful at Area A, the air sparging/soil vapor extraction remedial technology will also be applied to contaminant concentrations identified in Area I.

4.4 Workplan for Additional Area I Sampling

In order to fully delineate Area I, Whitman proposes to advance three additional borings in the vicinity of AISB-9 and AISB-10 as shown by Figure 6. Elevated soil concentrations were identified in these borings in the 7 to 11 foot interval. Using geoprobe-type drilling equipment, a continuous core will be advanced to the meadow mat, or to a depth of 18 feet, which ever occurs first. The soil type of the entire core will be recorded and screened with a Photovac TIP. Based on visual observations and TIP readings, samples for laboratory analysis will be selected. The samples collected for laboratory analysis will be analyzed for VOC+10 using EPA Method 8260 modified to include quantification for 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, and Naphthalene. Upon completion of the additional soil sampling, Whitman will submit the findings in a progress report as per the VCA agreement.

5.0 AIR-SPARGING PILOT TEST WORKPLAN

As discussed at our July 17, 2003 site meeting, Dexter agreed to investigate the feasibility of installing and operating an in-situ program of air sparging (AS)/soil vapor extraction (SVE) to remediate soil contamination in Area A. If the pilot test is deemed successful at Area A, the AS/SVE system will also be applied to contaminant concentrations identified in Area I. As a first step in this process, Dexter is proposing to conduct an air sparging/soil vapor extraction pilot test. Implementation details of this pilot test are discussed below.

5.1 Preliminary Well Installation

One SVE well (SVE-1) and one air AS well (AS-1) will be installed within the known zone of contamination at Area A. A total of five (5) monitoring points will also be installed within this AOC. The proposed approximate location of each point is illustrated on Figure 7. The exact location and construction of these wells will be field determined based upon site-specific observations and conditions. The wells and/or monitoring points will be installed using a combination of direct-push and hollow stem auger drilling equipment. Prior to the placement of a well or monitoring point at any given location, a preliminary soil boring will be performed to log lithology and to obtain "baseline" soil samples.

Upon verifying site lithology, the appropriate well/monitoring point will be installed. The air sparging point (AS-1) will be installed to a depth of approximately 18-20 feet (corresponding with the top of the previously identified meadow mat layer). It is anticipated that AS-1 will consist of approximately 15-17 feet of solid PVC casing and 2.5 feet of perforated well screen. The air sparging well annulus will be sealed from 1 foot above the screened/sand interval up to grade level using a Portland cement/bentonite grout and completed at grade level with a traffic rated manhole. SVE-1 will also be installed using 2-inch diameter PVC well screen and casing combination. However, in the case of SVE-1, the screened interval will extend from approximately 2.5 -12.5 feet below ground surface. The construction of SVE-1 will be akin to a standard monitoring well, and will also be completed with a traffic rated manhole.

Monitoring points MP-1 through MP-5 will be installed using a Geoprobe® dual tube sampling system. These points will be constructed using one-inch diameter PVC well screen and casing. It is anticipated that the wells will be installed to a depth of approximately 15 feet below ground surface with a screened interval of 12.5 to 15 feet with corresponding sand gravel pack and Portland cement/bentonite grout seal and flush mounted manhole. These monitoring points

will permit the collection of soil gas and groundwater samples as needed during the course of the pilot test.

5.2 Air Sparging/SVE Testing

An eight (8) hour air sparging/SVE feasibility pilot test will be conducted within Area A. The SVE test will be initiated with extraction of soil gas from SVE-1 using a regenerative blower as a vacuum source. Approximately 2 hours after the start of the SVE pilot test, air will be introduced to AS-1 using an air compressor. The combination of air sparging and soil vapor extraction will continue for 2-3 hours or until readings stabilize. The SVE system will then be turned off for up to 1 hour to ascertain the affect of air sparging alone. After this period, the SVE system will be re-started for the final hour(s) of the test to recover vapors liberated during the "sparge-only" portion of the test. During the AS/SVE test, airflows, induced pressure, vacuum readings and PID readings will be monitored. Tedlar air bag samples will be collected from the SVE discharge at three (3) times during the SVE test. The Tedlar air bag sample with the highest recorded PID response will be laboratory analyzed for Volatile Organic Compounds plus a library search (VOC+10). The results of the Tedlar air bag samples and data collected during the SVE test will be used to determine hydrocarbon recovery rates and the need for off-gas control if a full-scale system is installed. Soil gas extracted during the course of the pilot test will be routed through a 55-gallon (200 lb) granular activated carbon treatment for hydrocarbon removal prior to discharge. The influent and effluent from the carbon drum will be monitored using a PID. No additional analysis or monitoring is proposed.

5.3 Evaluation of Pilot Test Results

Whitman will evaluate the data collected and determine if air sparging soil vapor extraction is a feasible remediation alternative for the mitigating contamination identified in Area A. Mass removal rates will be estimated and the need for off-gas control will be determined based upon NYSDEC requirements. If air sparging and soil vapor extraction is found to be feasible, Whitman will prepare a Remedial Action Workplan for the installation, operation and maintenance of a full-scale air sparging and soil vapor extraction to remediate contaminant concentrations identified at Area A. Data gathered from Area A will utilized to extrapolate a remediation design for Area I based upon the relatively lower contaminant concentrations in Area I compared to Area A. The feasibility of combining the recovery and treatment systems for areas A and I will also be investigated.

6.0 REMEDIATION SCHEDULE

The anticipated schedule to complete the proposed work is provided below.

Milestone	Weeks from NYSDEC Approval *
1. Complete Area I Investigation and Sampling	3
2. Conduct Area A SVE Pilot Test	6
3. Evaluate Area I Sampling Results	6
4. Evaluate Area A SVE Pilot Test Results	10
5. Final Report: Submit Area I Sampling Results and Area A SVE Pilot Test Results	15

* Dexter requests an expedited review and response.

6.1 Monthly Progress Reports

As part of the VCA (VCA Paragraph III) between Dexter and the NYDEC, monthly progress reports shall be submitted commencing with the 10th day of each month subsequent to the approval of the first work plan and then every month thereafter. Monthly progress reports for this phase of work will end with the submission of the Final Report. The NYDEC shall be notified of any field activities seven (7) days in advance of scheduled event.

7.0 NYSDEC/NYSDOH COMMENTS ON JUNE 2003 SUMMARY INVESTIGATION REPORT

On June 23, 2003, Whitman submitted a report to the NYSDEC entitled, "Summary of Site Investigation and Proposed Remedial Action." This report summarized environmental data collected during November 1997, March 1998, December 2001, and November 2002, and concluded by presenting remedial actions for soil and ground water.

On January 16, 2004, comments to the June 2003 report were submitted by NYSDEC to Whitman via email by Case Manager, Hari Agrawal. Formal comments to the June 2003 report

were provided by NYSDEC and the New York State Department of Health (NYSDOH) in a letter dated January 29, 2004. These comments and Whitman's responses are listed below.

NYSDEC/NYSDOH Comment #1:

Dexter needs to collect soil gas samples to assess soil gas as an individual media. Please submit a proposal to do this work together with any other work that you feel is necessary to resolve our concerns in Area B. This work can be done ahead of or included in the remedial action work plan. Depending upon the results, additional remedial work may be necessary.

Whitman's Response #1:

As detailed in Section 5.2 of this report, Tedlar air bag samples will be collected from the SVE discharge at three (3) intervals during the SVE pilot test in Area A. The Tedlar air bag sample with the highest recorded PID response will be laboratory analyzed for Volatile Organic Compounds plus a library search (VOC+10). The results of the Tedlar air bag samples and data collected during the SVE test will be used to determine hydrocarbon recovery rates and the need for off-gas control if a full-scale system is installed. Soil gas extracted during the course of the pilot test will be routed through a 55-gallon (200 lb) granular activated carbon treatment for hydrocarbon removal prior to discharge. The influent and effluent from the carbon drum will be monitored using a PID.

As detailed in Whitman Response #6 and Section 3.0 of this report, no further investigation is warranted in Area B.

NYSDEC/NYSDOH Comment #2:

The Report does not provide a full accounting of all tank closures. According to the Phase I Report, after the January 1993 and May 1995 tank closures, eight (8) ASTs and two (2) USTs were still in service as of September 1997. Some tanks have probably been closed since then. According to our records, at least one tank, a 5000 gallon #4 heating oil tank located in Area B was closed in 1998. Please provide the closure report for this tank and any others that have been closed since September 1997.

Whitman's Response #2:

On July 27, 1998, the 5000-gallon #4 heating oil tank located in Area B passed a pressure test conducted by A. L. Eastmond & Sons, Inc., fuel oil tank specialists located in the Bronx,

N.Y., confirming that the integrity of the tank to be abandoned in place was sound (Attachment 5).

In preparation for the in-place abandonment of the 5,000-gallon #4 heating oil tank, a new above ground storage tank was installed in Area B on January 28, 1999.

As part of the in-place abandonment of the 5000-gallon #4 heating oil tank, 2000 gallons of useable heating oil was transferred to the newly installed above ground storage tank by A. L. Eastmond & Sons, Inc. on January 28, 1999. On this same date, 991 gallons of sludge from the 5000-gallon #4 heating oil tank was removed by Eastmond & Sons, Inc. and properly disposed (Attachment 6).

No other tanks have been closed since September 1997.

NYSDEC/NYSDOH Comment #3:

The 1993 Closure Report does not identify the locations of the two tanks that were closed in 1993. Please provide Figure 1 again, as the one included in the Report was copied in a folded position.

Whitman's Response #3:

Figure 1, which identifies the locations of the two tanks that were closed in 1993 is included as Attachment 7.

NYSDEC/NYSDOH Comment #4:

Six tanks were removed in 1995. These were: one 2500 g Methanol UST: one 1500 varsol UST: one 2000 g Isopropanol UST; two 550 g gasoline USTs; one 550 g diesel UST. Where were these located? Please provide a location map.

Whitman's Response #4:

The former locations of the six USTs removed in 1995 are provided by Figure 8. Please note that Dexter Chemical LLC does not own the 849, 851 or 855 Edgewater Road properties, nor are these properties defined as the "site" under the Voluntary Cleanup Agreement.

NYSDEC/NYSDOH Comment #5:

Please provide Volume 2, both Part A and Part B, QA/QC data packages for the July 2000 soil and groundwater sampling data. These were referenced in the Report, but not provided. Please note that all data packages (ASP Category B deliverables) should accompany a Data Usability Summary Report.

Whitman's Response #5:

The laboratory QA\QC data packages for the July 2000 soil and groundwater sampling data were sent on June 25, 2003 as Volume 2, Parts A and B of the June 2003 report entitled, "Summary of Site Investigation and Proposed Remedial Actions." Federal Express tracking sheets confirming receipt of this report by Marie D. Ronano on June 27, 2003 of NYSDEC are included as Attachment 8.

NYSDEC/NYSDOH Comment #6:

The NYSDEC does not fully agree with the Report conclusions as to the nature and extent of soil contamination on site.

A) As discussed at the July 17, 2003 meeting both petroleum and non-petroleum contamination is present in onsite soils (in all three areas, Area A, Area B, and Alleyway I) and in ground water. Contrary to the Report conclusion, Area B also appears to have some petroleum impact on subsurface soils. Petroleum presence was noted down to 12 ft bgs in March 1998 (borings B1 and B3). Some petroleum SVOCs were found in soil samples in 1998 and again in 2000.

B) The Report states that, on July 21, 2000, samples were collected from three soil borings in Area B. We find that only two borings (B100 and B101) were done in Area B in July 2000. A third sample from boring SB-200 wasn't done until September 2000. If it is the same boring, please let us know why was it delayed until September and provide its boring log. Further, the lab raw data shows high concentrations (Dilution Factor 5.0) of several unknown TICs, which as indicated by their retention times could be petroleum compounds. Further, did the lab provide a narrative explanation for the high concentrations of TICs found in this sample?

Whitman's Response to Comment #6, Part A:

Identification of odors is very subjective and varies from person to person. Based on the information provided below, the odor of wet cinders, coal and fill material identified in Borings

B-1 and B-3 was mistakenly identified as "petroleum odor" in the borings collected on March 10, 1998.

1. As discussed in Whitman Response #1, the #4 heating oil tank located in Area B passed a pressure test on July 27, 1998 and all petroleum product was removed from this tank on January 28, 1999. There is no information to suggest that there were ever any discharges from this tank.

2. Twelve soil samples were collected to characterize soil conditions in Area B (Figure 9 and Tables 3 and 4). **No petroleum-related exceedances of the NYSDEC Recommended Soil Cleanup Objective were identified in any Area B soil samples.** Exceedances of PAH compounds were identified in Area B, but as stated in Section 3.0 of this report, these exceedances are related to cinder and ash material that dominate the subsurface materials in Area B.

3. Significantly, neither free-phase product nor sheen was ever identified in the two monitoring wells (MW-5, and MW-8) and the temporary well point (WP-B-100) installed in Area B to monitor ground water quality. **In addition, ground water monitored by these same points has never exhibited a petroleum-related exceedance of the NYSDEC Ground Water Criteria (Tables 5 and 6).**

Whitman's Response to Comment #6, Part B:

Borings B100 and B101 were advanced in Area B during July 2000; one soil sample was collected from each. After review of the laboratory analytical results, Whitman decided to advance a third boring and collect a third sample, SB-200, from Area B. This third soil boring was completed during the monitoring well installation of MW-7 and MW-8 during September 2000. The soil boring log for SB-200 can be found in Attachment 9.

Whitman spoke to Severn Trent/STL Edison Laboratory Manager Mike Urban regarding the unknown TICs identified in soil sample SB-200. Mr. Urban concludes that the unknown TICs are not petroleum compounds (Attachment 10).

NYSDEC/NYSDOH Comment #7:

As discussed at the July 17, 2002 meeting, remedial steps are needed site-wide to address soil and groundwater contamination present at the Dexter site. We understand that since this

meeting Dexter has under taken further investigation in areas A and I to further define the extent of contamination. Please provide these results as soon as possible. For the reasons discussed above, Area B may also need further investigation.

Whitman's Response #7:

Since the July 17, 2002 meeting, Dexter has conducted additional investigation of Area I during August and October 2003. These soil delineation events and results for Area I are discussed in Section 4.0 of this report, along with a workplan for additional delineation sampling.

As detailed in Whitman Response #5 and Section 3.0 of this report, no further investigation regarding the presence of hydrocarbons is warranted for Area B. No further investigation has taken place in Area A.

NYSDEC/NYSDOH Comment #8:

Due to significant groundwater contamination leaving the site, off-site impacts would also need to be addressed.

Whitman's Response#8:

As detailed in the Whitman/Dexter June 2003 report entitled, "Summary of Site Investigation and Proposed Remedial Action," ground water contamination at Dexter is limited to a localized area immediately downgradient of Area A in the vicinity of PZ-4 and MW-6 (Figure 1). Monitoring wells MW-9 and MW-10 were installed downgradient of PZ-4 and MW-6. The placement of these downgradient wells was selected and approved by the NYSDEC. Elevated concentrations of organic contaminants have not been identified in monitoring wells MW-9 and MW-10.

As referenced by previous reports, there are no downgradient water uses nor are there any downgradient wells other than Dexter's monitoring wells MW-9 and MW-10. Sampling results from MW-9 and MW-10 demonstrate that ground water contaminates from Dexter cannot be migrating to the nearest surface water body, The Bronx River.

meeting Dexter has under taken further investigation in areas A and I to further define the extent of contamination. Please provide these results as soon as possible. For the reasons discussed above, Area B may also need further investigation.

Whitman's Response #7:

Since the July 17, 2002 meeting, Dexter has conducted additional investigation of Area I during August and October 2003. These soil delineation events and results for Area I are discussed in Section 4.0 of this report, along with a workplan for additional delineation sampling.

As detailed in Whitman Response #5 and Section 3.0 of this report, no further investigation regarding the presence of hydrocarbons is warranted for Area B. No further investigation has taken place in Area A.

NYSDEC/NYSDOH Comment #8:

Due to significant groundwater contamination leaving the site, off-site impacts would also need to be addressed.

Whitman's Response#8:

As detailed in the Whitman/Dexter June 2003 report entitled, "Summary of Site Investigation and Proposed Remedial Action," ground water contamination at Dexter is limited to a localized area immediately downgradient of Area A in the vicinity of PZ-4 and MW-6 (Figure 1). Monitoring wells MW-9 and MW-10 were installed downgradient of PZ-4 and MW-6. The placement of these downgradient wells was selected and approved by the NYSDEC. Elevated concentrations of organic contaminants have not been identified in monitoring wells MW-9 and MW-10.

As referenced by previous reports, there are no downgradient water uses nor are there any downgradient wells other than Dexter's monitoring wells MW-9 and MW-10. Sampling results from MW-9 and MW-10 demonstrate that ground water contaminates from Dexter cannot be migrating to the nearest surface water body, The Bronx River.

ATTACHMENT 1

SOIL BORING LOGS

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** August 14, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 20 feet Water Depth: 13 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-1

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 0.5' Asphalt and gravel base.	
1	0				No Staining
				0.5' - 4' Black coarse to fine sand and silt some fill,	
2	6.7			gravel and brick pieces.	
3	8.4				
4	9.4				
				4' - 7.5' Grey/green medium to fine sand and silt with minor	
5	9.2			fill, gravel and brick pieces.	
6	10.1				
7	9.9				
8	50.3		AISB-1A	7.5' - 8' Black fine sand and silt, wood and organics/peat.	Sample AISB-1A at 7.5' - 8'.
				8' - 14' Grey/green medium to fine sand and silt with minor	Slight odors.
9	50.2			fill, gravel and brick pieces.	
10	80.7				
	160				
11	343		AISB-1B		Sample AISB-1B at 10.5' - 11'.
	220				
12	152				
13	99.4				
					Water @ 13 feet.
14	141				
				14' - 20' Light grey coarse to fine sand and silt,	
15	220		AISB-1C	historic fill - cinders, coal, glass and brick	Sample AISB-1C at 14.5' - 15'.
16	88.7				
17	0				
18	0				
19	0				
20	0				
				20' End of boring.	
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** August 14, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 20 feet Water Depth: 5 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-2

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 0.5' Asphalt and gravel base.	
1	0				No Staining
				0.5' - 4' Grey/brown coarse to fine sand and silt some fill,	
2	8			gravel and brick pieces.	
3	9.4				
4	10.2				
				4' - 7' Brown coarse sand and gravel.	
5	13.4				
6	22.4				
					Water @ 5 feet.
7	25.6				
				7' - 12' Black/brown coarse to fine sand and silt some fill,	
8	68.9			gravel and brick pieces.	
	315				Slight odors.
9	676		AISB-2A		Sample AISB-2A at 8.5' - 9'.
	449				
10	220				
11	191				
12	169				
				12' - 14' Grey/green medium to fine sand and silt with minor	
13	38.9			fill, gravel and brick pieces.	
14	22.9				
	155			14' - 20' Light grey coarse to fine sand and silt,	
15	386		AISB-2B	historic fill - cinders, coal, glass and brick	Sample AISB-2B at 14.5' - 15'.
	380				
16	181				
17	8.5				
18	3.4				
19	10.1				
20	1.7				
				20' End of boring.	
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** August 14, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 14 feet Water Depth: 5 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-3

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0				0' - 0.5' Asphalt and gravel base.	
1	0			0.5' - 14' Black coarse to fine sand and silt some fill, gravel and brick pieces.	No Staining
2	11.3				
3	13.6				
4	15.9				
5	11.2				Water @ 5 feet.
6	10.6				
7	32				
8	36.2 46.7 44.7		AISB-3A		Sample AISB-3A at 7.5' - 8'. Slight odors.
9	50.4 80.7		AISB-3B		Sample AISB-3B at 9' - 9.5'.
10	71.3 17.7				
11	8.4				
12	6.8				
13	0		AISB-3C		Sample AISB-3C at 13' - 13.5'.
14	0			14' Refusal - wood. End of boring.	
15					
16					
17					
18					
19					
20					
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** August 14, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 20 feet Water Depth: 11 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-4

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0				0' - 0.5' Asphalt and gravel base.	
1	0			0.5' - 4' Black coarse to fine sand and silt some fill, gravel and brick pieces.	No Staining
2	0				
3	3.9				
4	11.7			4' - 14' Dark grey/green medium to fine sand and silt with minor fill, gravel and brick pieces.	
5	6.2				
6	4.3				
7	3.6				
8	0.7		AISB-4A		Sample AISB-4A at 7.5' - 8'. Slight odors.
9	42.7				
10	908				
11	1054				
12	1500				
13	2000		AISB-4B		Sample AISB-4B at 10.5' - 11'. Water @ 11 feet.
14	156				
15	100				
16	76.4				Sample AISB-4C at 13.5' - 14'.
17	46.2		AISB-4C	14' - 17' Light grey coarse to fine sand and silt, historic fill - cinders, coal, glass and brick	
18	2.6				
19	2.4				
20	0			17' - 20' Grey fine silt and clay with organic matter - roots. Meadow mat.	
21	0				
	0			20' End of boring.	

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** October 9, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 16 feet Water Depth: _____

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-4R

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0				0' - 12' Discrete sampling - No Recovery (See Log AISB-4 for details.)	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12				12' - 14' Dark grey/green medium to fine sand and silt with minor fill, gravel and brick pieces.	
13	106				
14	15.6			14' - 16' Light grey coarse to fine sand and silt, historic fill - cinders, coal, glass and brick	
15	0				
16	0		AISB-4D	16' End of boring.	Sample AISB-4D at 15.5' - 16'.
17					
18					
19					
20					
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** August 14, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 20 feet Water Depth: 11 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-5

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 0.5' Asphalt and gravel base.	
1	0				No Staining
				0.5' - 12' Black coarse to fine sand and silt some fill,	No Odors
2	0			gravel and brick pieces.	
3	0				
4	0				
5	0				
6	0				
7	0				
8	0		AISB-5A		Sample AISB-5A at 7.5' - 8'.
9	0				
10	0				
11	15				
					Water @ 11 feet.
12	47.9		AISB-5B		Sample AISB-5B at 11.5' - 12'.
				12' - 17' Light grey coarse to fine sand and silt,	
13	0			historic fill - cinders, coal, glass and brick	
14	0				
15	0				
16	0				
17	0				
				17' - 20' Grey fine silt and clay with organic matter - roots.	
18	0			Meadow mat.	
19	0				
20	0				
				20' End of boring.	
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** October 9, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 16 feet Water Depth: _____

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-5R

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0				0' - 12' Discrete sampling - No Recovery (See Log AISB-5 for details.)	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12				12' - 13' Black coarse to fine sand and silt some fill, gravel and brick pieces.	
13	0		AISB-5D	13' - 16' Light grey coarse to fine sand and silt, historic fill - cinders, coal, glass and brick	Sample AISB-5D at 13' - 13.5'.
14	0				
15	0		AISB-5E		Sample AISB-5E at 14.5' - 15'.
16	0			16' End of boring.	
17					
18					
19					
20					
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** August 14, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 17 feet Water Depth: 11 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-6

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 0.5' Asphalt and gravel base.	
1	0				No Staining
				0.5' - 6' Black coarse to fine sand and silt some fill,	No Odors
2	0			gravel and brick pieces.	
3	0				
4	0				
5	0				
6	0				
				6' - 9' Grey/green medium to fine sand and silt with minor	
7	0			fill, gravel and brick pieces.	
8	0		AISB-6A		Sample AISB-6A at 7.5' - 8'.
9	0				
				9' - 17' Black coarse to fine sand and silt some fill,	
10	0			gravel and brick pieces.	
11	0				
					Water @ 11 feet.
12	0		AISB-6B		Sample AISB-6B at 11.5' - 12'.
13	0				
14	0				
15	0				
16	0				
17	0				
				17' Refusal - Concrete or rock.	
18				End of boring.	
19					
20					
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** August 14, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 20 feet Water Depth: 11 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-7

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 0.5' Asphalt and gravel base.	
1	0				No Staining
				0.5' - 4' Black coarse to fine sand and silt some fill,	No Odors
2	0			gravel and brick pieces.	
3	0				
4	0				
				4' - 10' Orange/brown coarse to fine sand and silt some fill,	
5	0			gravel and brick pieces.	
6	0				
7	0				
8	0		AISB-7A		Sample AISB-7A at 7.5' - 8'.
9	0				
10	0				
				10' - 18' Black/grey medium to fine sand and silt with minor	
11	0			fill, gravel and brick pieces.	
					Water @ 11 feet.
12	0		AISB-7B		Sample AISB-7B at 11.5' - 12'.
13	0				
14	0				
15	0				
16	0				
17	0				
18	0				
				18' - 20' Grey fine silt and clay with organic matter - roots.	
19	0			Meadow mat.	
20	0				
				20' End of boring.	
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** August 14, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 20 feet Water Depth: 10 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-8

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 0.5' Asphalt and gravel base.	
1	0				No Staining
				0.5' - 4' Black coarse to fine sand and silt some fill,	No Odors
2	0			gravel and brick pieces.	
3	0				
4	0				
				4' - 12' Orange/brown coarse to fine sand and silt some fill,	
5	0			gravel and brick pieces.	
6	0				
7	26.2				
8	47.8				
9	60.5				
10	102		AISB-8A		Sample AISB-8A at 9.5' - 10'.
11	96.8				Water @ 10 feet.
12	47.8				
				12' - 15' Grey/green medium to fine sand and silt with minor	
13	10.6		AISB-8B	fill, gravel and brick pieces.	Sample AISB-8B at 12.5' - 13'.
14	0				
15	0				
				15' - 18' Light grey coarse to fine sand and silt,	
16	0			historic fill - cinders, coal, glass and brick	
17	0				
18	0				
				18' - 20' Grey fine silt and clay with organic matter - roots.	
19	0			Meadow mat.	
20	0				
				20' End of boring.	
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** October 9, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 20 feet Water Depth: 11 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-9

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 1' Concrete floor and gravel base.	
1	0				No Staining
				1' - 6' Green\black medium to fine sands and silt	No Odors
2	0			some gravel.	
3	0				
4	0				
5	62.5				
6	157				
				6' - 7.5' Dark brown coarse to fine sand and silt with gravel.	
7	196				
	226		AISB-9A		Sample AISB-9A at 7' - 7.5'.
8	51.2			7.5' - 14' Green\black medium to fine sands and silt	
				some gravel.	
9	60.2				
10	114		AISB-9B		Sample AISB-9B at 9.5' - 10'.
11	30.2				
					Water @ 11 feet.
12	9.8				
13	7.6				
14	31.2				
				14' - 18' Light grey coarse to fine sand and silt,	
15	51.4		AISB-9C	historic fill - cinders, coal, glass and brick	Sample AISB-9C at 14.5' - 15'.
16	8				
17	5.6				
18	13.2				
				18' - 20' Grey fine silt and clay with organic matter - roots.	
19	4.5			Meadow mat.	
20	2.8				
				20' End of boring.	
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** October 9, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 16 feet Water Depth: 11 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-10

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 1' Concrete floor and gravel base.	
1	14.8				No Staining
				1' - 14' Green\black medium to fine sands and silt	No Odors
2	32.7			some gravel.	
3	31.7				
4	60.7				
5	77.4				
6	88				
7	139				
	303		AISB-10A		Sample AISB-10A at 7' - 7.5'.
8	214				
9	110				
10	195				
	179				
11	253		AISB-10B		Sample AISB-10B at 10.5' - 11'.
	117				Water @ 11 feet.
12	107				
13	95.3				
14	131				
				14' - 16' Light grey coarse to fine sand and silt,	
15	135		AISB-10C	historic fill - cinders, coal, glass and brick	Sample AISB-10C at 14.5' - 15'.
16	45			16' End of boring.	
17					
18					
19					
20					
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** October 9, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 16 feet Water Depth: 11 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-11

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 0.5' Asphalt and gravel base.	
1	0				No Staining
				0.5' - 4' Brown\black coarse to fine sands and silt with gravel some concrete.	No Odors
2	0				
3	0				
4	0				
				4' - 12' Brown\black medium to fine sands and silt some gravel.	
5	0				
6	0				
7	0				
8	0		AISB-11A		Sample AISB-11A at 7.5' - 8'.
9	0				
10	0				
11	0		AISB-11B		Sample AISB-11B at 10.5' - 11'.
					Water @ 11 feet.
12	0				
				12' - 13' Black coarse to fine sand and silt with gravel.	
13	0				
				13' - 16' Light grey coarse to fine sand and silt, historic fill - cinders, coal, glass and brick	
14	0				
15	0		AISB-11C		Sample AISB-11C at 14.5' - 15'.
16	0				
				16' End of boring.	
17					
18					
19					
20					
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** October 9, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 16 feet Water Depth: 10 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

AISB-12

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 0.5' Asphalt and gravel base.	
1	0				No Staining
				0.5' - 10' Brown\black medium to fine sands and silt	No Odors
2	0			some gravel.	
3	0				
4	0				
5	0				
6	0				
7	0				
8	0		AISB-12A		Sample AISB-12A at 7.5' - 8'.
9	0				
10	8.3				
					Water @ 10 feet.
11	14.3		AISB-12B		Sample AISB-12B at 10.5' - 11'.
12	0				
				10' - 14' Black coarse to fine sand and silt with gravel.	
13	0				
14	0				
				14' - 16' Light grey coarse to fine sand and silt,	
15	0		AISB-12C	historic fill - cinders, coal, glass and brick	Sample AISB-12C at 14.5' - 15'.
16	0				
				16' End of boring.	
17					
18					
19					
20					
21					

Client : DEXTER CHEMICAL

Project No. : 97-09-10

Site Location : Bronx, New York **Date :** October 9, 2003

Drilling Co. : Environmental Probing Investigations

Method : Geo Probe - Direct Push

Geologist/Sampler : Michael Percelay

Total Depth : 16 feet Water Depth: 10 feet

THE WHITMAN COMPANIES, INC.

Log of Boring

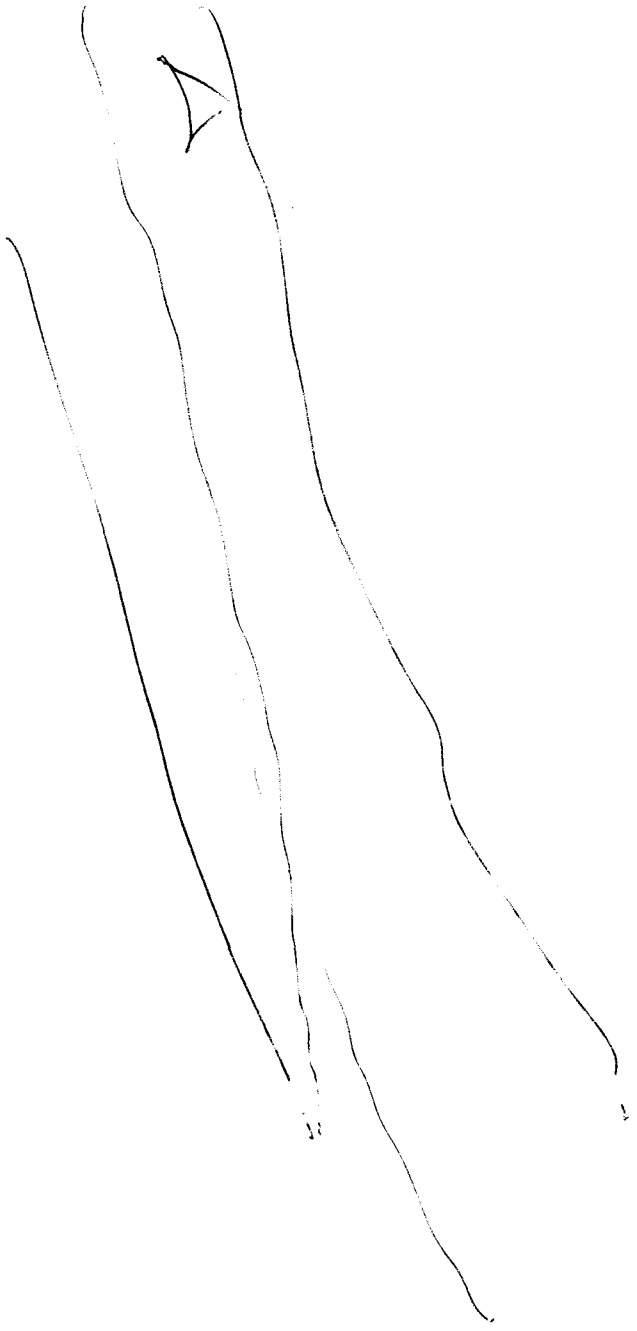
AISB-13

Sheet

Depth ft.	PID	Recovery	SAMPLE ID	Soil Classification	Remarks
0					
				0' - 0.5' Asphalt and gravel base.	
1	0				No Staining
				0.5' - 4' Brown\black coarse to fine sands and silt	No Odors
2	0			and gravel.	
3	0				
4	0				
				4' - 10' Brown\green medium to fine sands and silt	
5	0			with minor gravel.	
6	0				
7	0				
8	0		AISB-13A		Sample AISB-13A at 7.5' - 8'.
9	0				
10	0				
					Water @ 10 feet.
11	0		AISB-13B		Sample AISB-13B at 10.5' - 11'.
12	0				
				10' - 14' Green\brown coarse to fine sands and silt with gravel.	
13	0				
14	0				
				14' - 16' Light grey coarse to fine sand and silt,	
15	0		AISB-13C	historic fill - cinders, coal, glass and brick	Sample AISB-13C at 14.5' - 15'.
16	0				
				16' End of boring.	
17					
18					
19					
20					
21					

Environmental Engineering & Management

TABLES



TABLES

TABLE 1

Dexter Chemical, L.L.C.
Historic Summary of Volatile Organic Results for Soil
AEC-I

Sample ID	1994 NYSDEC	E-2 1.5-2	E-2 2.5-3	E-4 3-3.5	I-1 3.5-4	I-1 7.5-8	I-2 7.5-8	I-2 9.5-10	I-100	I-101	I-102	I-103	I-104
Lab Sample Number	Rec. Soil	48939	48940	48941	48946	48947	48949	48950	218839	218840	218841	218862	218863
Sampling Date	Cleanup	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	03/11/98	07/20/00	07/20/00	07/20/00	07/21/00	07/21/00
Sample Depth (feet)	Objective	1.5-2	2.5-3	3-3.5	3.5-4	7.5-8	7.5-8	9.5-10	7-8	5-6	7-8	7-8	7-8
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILE COMPOUNDS													
Chloromethane	1900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	200	ND	ND	ND	ND	ND	ND	ND	96 J	ND	ND	ND	ND
Chloroethane	1900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	6000	14	ND	ND	2.8	ND	2.3	2.5	ND	1.0 J	1.0 J	0.9 J	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND	ND	76 J	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	ND	0.7	ND	ND	1	1,300	0.5 J	ND	1.3 J	ND
Chloroform	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND	ND	280	ND	ND	ND	ND
Dibromochloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND	ND	54 J	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	0.6	0.7	ND	1	0.8	180 J	1.3 J	ND	0.7 J	ND
Chlorobenzene	1700	ND	ND	ND	ND	ND	9.6	6.1	480 J	2.5 J	2.6 J	2.2 J	ND
Ethylbenzene	5500	64	ND	3.4	ND	**8400**	3.4	2.2	800	10	5.0	ND	1,100
Xylene (Total)	1200	680	4.5	24	0.7	**45000**	11	11	**5,100**	55	47	2.4 J	**6,800**
1,3-Dichlorobenzene	1600	ND	ND	73	63	**1900**	ND	64	180 J	ND	92 J	88 J	ND
1,4-Dichlorobenzene	8500	ND	ND	300	320	**14000**	87	270	800	410 J	610	500 J	1,200 J
1,2-Dichlorobenzene	7900	ND	ND	ND	34	6800	ND	23	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3400	66	ND	120	180	**110000**	220	99	120	ND	63	**4,300**	**18,000**
Naphthalene	13000	1200	30	160	37	**18000**	310	520	150 J	670 J	160 J	ND	2,400 J
Total Confident Conc.		758	4.5	28	4.9	53400	27.3	23.6	8366	70.3	55.6	7.5	7900
Total Estimated Conc. VOA TICs		23200	350	221	7.8	497000	730	310	47,200	901	623	30	80,600

- Exceeds NYSDEC Soil Cleanup Criteria
NS - No Standard for Individual Contaminant
ND - None Detected
TICs - Tentatively Identified Compounds
J - The result is less than detection limit, but greater than zero

TABLE 2A

Dexter Chemical, L.L.C.
Summary of Volatile Organic Results for Soil - AEC-I
August 14, 2003

Sample ID	1994 NYSDEC	AISB-1A	AISB-1B	AISB-1C	AISB-2A	AISB-2B	AISB-3A	AISB-3B	AISB-3C	AISB-4A	AISB-4B	AISB-4C	AISB-5A	AISB-5B	AISB-6A	AISB-6B	AISB-7A	AISB-7B	AISB-8A	AISB-8B
Lab Sample Number	Recommended Soil	07190-001	07190-002	07190-003	07190-004	07190-005	07190-006	07190-007	07190-008	07190-009	07190-010	07190-011	07190-012	07190-013	07190-014	07190-015	07190-016	07190-017	07190-018	07190-019
Sampling Depth (feet)	Cleanup	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003
Sample Date	Objective	7.5 - 8	10.5 - 11	14.5 - 15	8.5 - 9	14.5 - 15	7.5 - 8	9 - 9.5	13 - 13.5	7.5 - 8	10.5 - 11	13.5 - 14	7.5 - 8	11.5 - 12	7.5 - 8	11.5 - 12	7.5 - 8	11.5 - 12	9.5 - 10	12.5 - 13
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILE COMPOUNDS																				
Chloromethane	1,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	6,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane(EDC)	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5,500	ND	1,390	ND	ND	ND	7.12	559 J	514 J	ND	ND	231 J	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	1,200	ND	**10,500**	ND	ND	ND	36.6	**3,570**	**3,140**	ND	ND	**1,390**	261 J	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1,600	ND	323 J	183 J	1,570	ND	2.03	215 J	234 J	ND	ND	329 J	ND	ND	ND	ND	ND	1.93 J	23 J	ND
1,4-Dichlorobenzene	8,500	ND	1,770	430 J	3,590	ND	12.1	1,560	1,330	1,040	ND	1,000	ND	ND	3.72 J	155	344 J	15	153	726
1,2-Dichlorobenzene	7,900	ND	2,110	ND	ND	ND	6.65	329 J	269 J	ND	ND	ND	ND	ND	ND	125 J	ND	ND	94	213 J
1,2,4-Trichlorobenzene	3,400	ND	**23,400**	1,280	2,580	ND	ND	1,720	2,500	1,350	ND	3,110	ND	ND	14	2,250	1,840	ND	1,790	3,360
Naphthalene	13,000	223 J	5,390	1,560	ND	ND	7.85	413 J	536 J	ND	ND	924	ND	ND	4.82 J	2,070	ND	12	171	ND
Total Confident Conc.		223 J	44,900 J	3,450 J	7,740	ND	72.4	8,370 J	8,520 J	2,390	ND	6,980 J	261 J	ND	23 J	4,600 J	2,180 J	29 J	2,230 J	4,300 J
Total Estimated Conc. VOA TICs (s)		4,250	56,400	6,810	26,400	13,100	210	11,300	11,200	9,420	1,780	43,300	1,240	ND	ND	9,060	5,620	10	1,500	22,000

- Detected above NYSDEC Soil Cleanup Criteria - TAGAM Memo #4046
NS - No Standard for Individual Contaminant
ND - None Detected
~ - Not Analyzed
NA - Standard Not Available

G:\Project\970910Dexter\AEC-I\VOA081403

THE WHITMAN COMPANIES, INC.

TABLE 2B

Dexter Chemical, L.L.C.
Summary of Volatile Organic Results for Soil - AEC-I
October 9, 2003

Sample ID Lab Sample Number Sampling Depth (feet) Sample Date Units	1994 NYSDEC Recommended Soil Cleanup Objective ug/kg	AISB-9A 09114-001 10/09/2003 7 - 7.5 ug/kg	AISB-9B 09114-002 10/09/2003 9.5 - 10 ug/kg	AISB-9C 09114-003 10/09/2003 14.5 - 15 ug/kg	AISB-10A 09114-004 10/09/2003 7 - 7.5 ug/kg	AISB-10B 09114-005 10/09/2003 10.5 - 11 ug/kg	AISB-10C 09114-006 10/09/2003 14.5 - 15 ug/kg	AISB-11A 09114-007 10/09/2003 7.5 - 8 ug/kg	AISB-11B 09114-008 10/09/2003 10.5 - 11 ug/kg	AISB-11C 09114-009 10/09/2003 14.5 - 15 ug/kg	AISB-12A 09114-010 10/09/2003 7.5 - 8 ug/kg	AISB-12B 09114-011 10/09/2003 10.5 - 11 ug/kg	AISB-12C 09114-012 10/09/2003 14.5 - 15 ug/kg	AISB-13A 09114-013 10/09/2003 7.5 - 8 ug/kg	AISB-13B 09114-014 10/09/2003 10.5 - 11 ug/kg	AISB-13C 09114-015 10/09/2003 14.5 - 15 ug/kg	AISB-4D 09114-016 10/09/2003 15.5 - 16 ug/kg	AISB-5D 09114-017 10/09/2003 13 - 13.5 ug/kg	AISB-5E 09114-018 10/09/2003 14.5 - 15 ug/kg
VOLATILE COMPOUNDS																			
Chloromethane	1,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	6,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane(EDC)	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.9	ND	ND	ND	ND
Ethylbenzene	5,500	173	48	ND	588 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	1,200	**1,370**	460	41	**5,170**	**2,930**	42	ND	ND	ND	ND	ND	ND	ND	ND	2.2 J	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1,600	75	220	14 J	454 J	ND	9 J	ND	ND	ND	ND	ND	ND	ND	3.2 J	ND	ND	ND	ND
1,4-Dichlorobenzene	8,500	287	366	20 J	1,300	1,220	52	ND	ND	ND	ND	ND	ND	ND	2.6 J	ND	ND	ND	ND
1,2-Dichlorobenzene	7,900	363	277	ND	2,610	2,310	139	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3,400	2,080	707	22 J	**21,900**	**32,200**	1,140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	13,000	1,860	880	738	**14,200**	5,710	627	ND	3.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Confident Conc.		6,210	2,960	834 J	46,200 J	44,400	2,040 J	ND	3.6 J	ND	ND	ND	ND	ND	16 J	2.2 J	ND	ND	ND
Total Estimated Conc. VOA TICs (s)		12,800	3,970	5,190	181,000	79,900	3,430	ND	36	ND	ND	114	ND	ND	319	135	18	ND	ND

- Detected above NYSDEC Soil Cleanup Criteria - TAGAM Memo #4046
NS - No Standard for Individual Contaminant
ND - None Detected
~ - Not Analyzed
NA - Standard Not Available

TABLE 3

Dexter Chemical, L.L.C.
Historic Summary of Volatile Organic Results for Soil
AEC - B

Sample ID	1994 NYSDEC	B-1 4-6	B-1 16-18	B-2 1-2	B-2 3-4	B-3 1-2	B-3 15-16	B-4 3.5-4	B-100	B-101	SB-200
Lab Sample Number	Rec. Soil	48926	48927	48928	48929	48931	48932	48934	218842	218845	227193
Sampling Date	Cleanup	03/10/98	03/10/98	03/10/98	03/10/98	03/10/98	03/10/98	03/10/98	07/20/00	07/21/00	09/06/00
Sample Depth (feet)	Objective	4-6	16-18	1-2	3-4	1-2	15-16	3.5-4	4-5	4-5	4-5
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILE COMPOUNDS											
Chloromethane	1900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	200	ND	ND	ND	ND	ND	ND	ND	160 J	ND	4 J
Chloroethane	1900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	6000	ND	ND	0.7	0.7	ND	3.4	1.2	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J
cis-1,2-Dichloroethene	NS	ND	ND	ND	ND	ND	ND	ND	890	ND	4.9 J
Chloroform	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7
1,1,1-Trichloroethane	800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	20	ND	ND	ND	6.3
cis-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	700	ND	ND	ND	ND	ND	ND	ND	**770**	ND	5.1
Dibromochloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND	7.9	ND	ND	ND	1.4
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1400	ND	ND	ND	ND	ND	6	ND	200	ND	ND
1,1,2,2-Tetrachloroethane	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	160	0.6	ND	0.7	57	1	ND	ND	1.9 J
Chlorobenzene	1700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5500	99	4.7	ND	ND	ND	170	ND	490	210 J	6.2
Xylene (Total)	1200	140	4.4	ND	ND	ND	940	ND	1000	350 J	29
Total Confident Conc.		239	169.1	1.3	0.7	0.7	1204.3	2.2	3510	560	65.5
Total Estimated Conc. VOA TICs		467000	1600	0	0	12	4388	0	19,070	361,000	805

- Exceeds NYSDEC Soil Cleanup Criteria
NS - No Standard for Individual Contaminant
ND - None Detected
TICs - Tentatively Identified Compounds
J - The result is less than detection limit, but greater than zero

G:\Project\970910dexter\AEC-B\his voa soil

THE WHITMAN COMPANIES, INC.

TABLE 4

Dexter Chemical, L.L.C.
Historic Summary of Base Neutral Organic Results for Soil
AEC-B

Sample ID	1994 NYSDEC	HO-1	HO-2	HO-3	B-1 16-18	B-2 1-2	B-2 3-4	B-3 1-2	B-3 15-16	B-4 3.5-4	B-100	B-101	SB-200
Lab Sample Number	Rec. Soil	33216	32217	32218	48927	48928	48929	48931	48932	48934	218842	218845	227193
Sampling Date	Cleanup	11/18/97	11/18/97	11/18/97	03/10/98	03/10/98	03/10/98	03/10/98	03/10/98	03/10/98	07/20/00	07/21/00	09/06/00
Sample Depth (feet)	Objective	3-4'	4-6'	4-6'	16-18	1-2	3-4	1-2	15-16	3.5-4	4-5	4-5	4-5
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BASE NEUTRAL COMPOUNDS													
N-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl) ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	21 J	ND	ND
1,2-Dichlorobenzene	7,900	ND	ND	ND	ND	ND	ND	ND	150	ND	180 J	ND	ND
bis(2-chloroisopropyl) ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	4,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3,400	ND	ND	ND	ND	ND	ND	ND	700	ND	ND	ND	ND
Naphthalene	13,000	5600	510	620	36	26	60	110	240	ND	300 J	420 J	260 J
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	41,000	ND	ND	ND	26	74	440	120	54	ND	84 J	ND	ND
2,6-Dinitrotoluene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	50,000	270	ND	90J	ND	42	ND	34	280	ND	170 J	1,600 J	120 J
2,4-Dinitrotoluene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	7,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-phenylether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50,000	220	ND	190	29	66	230	44	ND	ND	120 J	490 J	150 J
N-Nitrosodiphenylamine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	410	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50,000	600	150	1100	150	770	640	410	160	83	360 J	220 J	470 J
Anthracene	50,000	ND	ND	81J	43	230	120	120	ND	ND	80 J	ND	130 J
Di-n-butylphthalate	8,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50,000	110J	190	660	130	1500	170	720	200	110	600 J	ND	840 J
Pyrene	50,000	140J	220	520	110	1200	310	800	230	130	730 J	85 J	850 J
Benzidine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	50,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	224	ND	160	**380**	73	**700**	89	**450**	130	60	**290**	ND	ND
Chrysene	400	ND	120	**870**	55	**790**	120	**520**	130	66	340 J	ND	ND
bis(2-Ethylhexyl)phthalate	50,000	ND	ND	ND	ND	80	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	50,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	1,100	ND	140	ND	42	780	75	640	100	75	480	ND	ND
Benzo(k)fluoranthene	1,100	ND	66J	ND	ND	350	ND	300	ND	31	170	ND	ND
Benzo(a)pyrene	61	ND	**100**	**180**	31	**640**	**71**	**450**	**120**	40	**320**	ND	**310 J**
Indeno(1,2,3-cd)pyrene	3200	ND	57J	150J	ND	260	30	170	ND	ND	150	ND	ND
Dibenz(a,h)anthracene	14	ND	ND	ND	ND	**63**	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	50,000	ND	51J	150J	ND	210	38	170	ND	ND	120 J	ND	ND
Total Confident Conc.		6690	1590	4520	725	7781	2393	5058	2494	595	4515	2815	3130
Total Estimated BN TICs		369000	226000	336000	302400	1870	8030	12910	484400	2940	71,600	552,000	1313

- Exceeds NYSDEC Soil Cleanup Criteria
ND - None Detected
NS - No Standard for Individual Contaminant
TICs - Tentatively Identified Compounds
J - The result is less than detection limit, but greater than zero

G:\Projects\970910Dexter\2000 Invest\hs bn soil

THE WHITMAN COMPANIES, INC.

TABLE 5

Dexter Chemical, L.L.C.
Summary of Volatile Organic Compound Results For Ground Water
September 27, 2000

Sample ID Lab Sample Number Sampling Date Units	1994 NYSDEC Ground Water Criteria ug/L	WP-B-100 218843 07/20/00 ug/L	MW-1 231797 09/27/00 ug/L	MW-2 281798 09/27/00 ug/L	MW-3 231799 09/27/00 ug/L	MW-4 231800 09/27/00 ug/L	MW-5 231801 09/27/00 ug/L	MW-6 231802 09/27/00 ug/L	MW-7 231803 09/27/00 ug/L	MW-8 231804 09/27/00 ug/L
VOLATILE COMPOUNDS										
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NS	ND	ND	2.1	0.6	ND	ND	18	3.5	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NS	ND	ND	ND	ND	ND	ND	65	ND	ND
cis-1,3-Dichloropropene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	1.8	ND	ND
Dibromochloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.7	ND	ND	0.4	0.3	ND	ND	**31**	**1.7**	0.6
trans-1,3-Dichloropropene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	0.4	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	0.4	ND	ND	**34**	0.5	ND
Chlorobenzene	5	ND	ND	3.3	0.4	ND	ND	ND	**35**	ND
Ethylbenzene	5	ND	ND	ND	1.6	ND	ND	**39**	0.8	ND
Xylene (Total)	5	ND	ND	0.8	**16**	ND	ND	**180**	**15**	1.4
Total Confident Conc. VOAs (s)		0	0	6.6	19.3	0	0	369.2	56.5	2.0
Total Estimated Conc. VOA TICs (s)		21	0	26	90	12	21	1047	128	36

☐ - Exceeds NYSDEC Ground Water Criteria
ND - None Detected
NS - No Standard

THE WHITMAN COMPANIES, INC.

G: Project 970910Dexter 2000 Invest vo gw 092700

TABLE 6

Dexter Chemical, L.L.C.
Summary of Base Neutral Compound Results For Ground Water
September 27, 2000

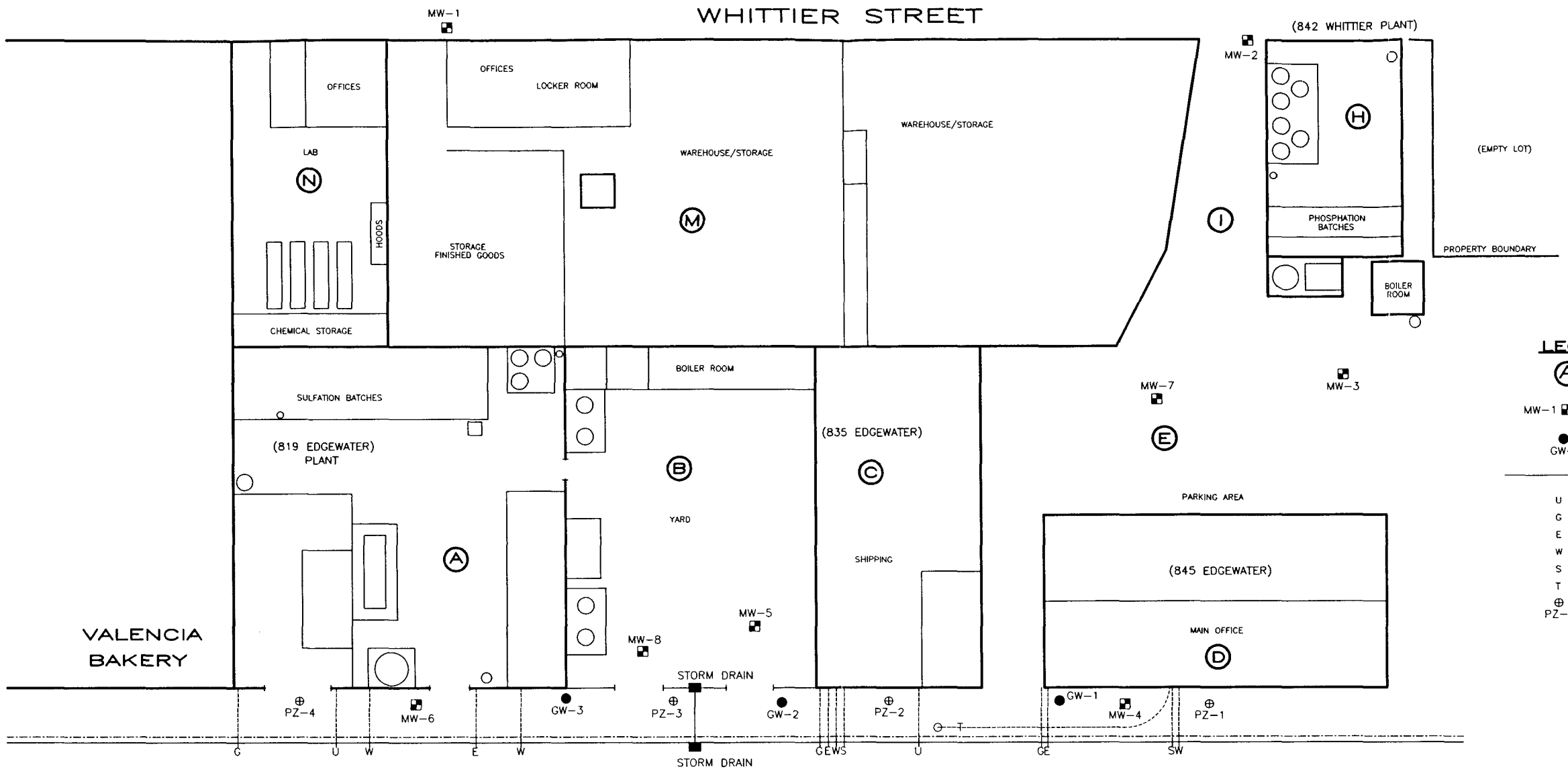
Sample ID Lab Sample Number Sampling Date Units	1994 NYSDEC Ground Water Quality Criteria ug/L	WP-B-100 218843 7/20/00 ug/L	MW-1 231797 9/27/00 ug/L	MW-2 231978 9/27/00 ug/L	MW-3 231799 9/27/00 ug/L	MW-4 231800 9/27/00 ug/L	MW-5 231801 9/27/00 ug/L	MW-6 231802 9/27/00 ug/L	MW-7 231803 9/27/00 ug/L	MW-8 231804 9/27/00 ug/L
BASE NEUTRALS										
N-Nitrosodimethylamine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl) ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	1.6	1.4	ND
1,4-Dichlorobenzene	5	ND	ND	ND	1.4	ND	ND	4.4	2.9	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	**7.6**	ND	ND
bis(2-chloroisopropyl) ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	3.0	ND	ND	**14**	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND	ND	**30**	1.1	ND
Hexachlorobutadiene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20	ND	ND	ND	0.9	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	50	ND	ND	ND	ND	ND	ND	39	ND	0.8
4-Chlorophenyl-phenylether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	0.5	ND	ND	ND	ND	ND
Pyrene	50	ND	ND	ND	0.9	ND	ND	ND	ND	ND
Benzidine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	50	ND	ND	ND	7.7	ND	ND	9.7	ND	ND
Di-n-octylphthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Confident Conc. BN (s)		0	0	0	14.4	0	0	106.3	5.4	0.8
Total Estimated Conc. BN TICs (s)		0	0	306	690	0	0	2331	597	0

bold - Exceeds NYSDEC Ground Water Quality Criteria
ND - None Detected
NS - No Standard
J - Compounds present below laboratory quantitation limits

THE WHITMAN COMPANIES, INC.

FIGURES

FIGURES



LEGEND

- (A) – AREA IDENTIFICATION TAG
- MW-1 – GROUND WATER MONITORING WELL LOCATION
- GW-1 – SOIL BORING LOCATION
- ——— – OVER HEAD ELECTRIC LINE
- U – UNKNOWN UTILITY
- G – UNDERGROUND GAS LINE
- E – ELECTRIC LINE
- W – WATER LINE
- S – SEWER LINE
- T – TELEPHONE LINE
- PZ-2 – PIEZOMETER LOCATION

SCALE
0 40'

THE WHITMAN CompanieS, INC.

DEXTER CHEMICAL LLC
BRONX, NEW YORK

SITE MAP

ORIGINAL BY:	DRAWN BY:	DRAWING NO:
M.P.	D.L.	970910Z4
CHECKED BY:	DATE:	FIGURE NO:
M.P.	OCT. 2003	1

I-2(7.5-8')
VO- B
I-2(9.5-10')
VO- B

I-104 (7-8')
XYLENE- 6,800
1,2,4-TRICHLOROBENZENE- 18,000

MW-2

AISB-2 (ALL DEPTHS)
VO- B

AISB-1A(7.5-8')
VO- B
AISB-1B(10.5-11')
XYLENE- 10,500
1,2,4 TRICHLOROBENZENE - 23,400
AISB-1C(14.5-15')
VO- B

AISB-6 (ALL DEPTHS)
VO- B

AISB-8 (ALL DEPTHS)
VO- B

AISB-7 (ALL DEPTHS)
VO- B

AISB-9A(7-7.5')
XYLENE- 1,370
AISB-9B(9.5-10')
VO- B
AISB-9C(14.5-15')
VO- B

I-103 (7-8')
1,2,4-TRICHLOROBENZENE-4,300

I-100 (7-8')
XYLENE- 5,000

I-102 (7-8')
VO-B

E-4 (3-3.5')
VO- B

AISB-3A(7.5-8')
VO- B
AISB-3B(9-9.5')
XYLENE- 3,570
AISB-3C(13-13.5')
XYLENE- 3,140

AISB-5 (ALL DEPTHS)
VO- B

AISB-11 (ALL DEPTHS)
VO- B

I-101 (5-6')
VO- B

AISB-4A(7.5-8')
VO - B
AISB-4B(10.5-11')
VO - B
AISB-4C(13.5-14')
XYLENE - 1,390
AISB-4D(15.5-16')
XYLENE - B

AISB-10A(7-7.5')
XYLENE- 5,170
1,2,4-TRICHLOROBENZENE- 21,900
NAPHTHALENE- 14,200
AISB-10B(10.5-11')
XYLENE- 2,930
1,2,4-TRICHLOROBENZENE- 32,200
AISB-10C(14.5-15')
VO- B

I-1(3.5-4')
VO- B
I-1(7.5-8')
ETHYLBENZENE- 8,400
XYLENE- 45,000
1,3-DICHLOROBENZENE- 1,900
1,4--DICHLOROBENZENE- 14,000
1,2,4-TRICHLOROBENZENE- 110,000
NAPHTHALENE- 18,000

E-2(1.5-2')
VO- B
E-2(2.5-3')
VO- B

AISB-13 (ALL DEPTHS)
VO- B

AISB-12 (ALL DEPTHS)
VO- B

AST
AST
BOILER ROOM
UST - APPROXIMATE LOCATION AND SIZE
UST - APPROXIMATE LOCATION AND SIZE

DRUM STORAGE
BURIED CONCRETE DRIVE PATH

AISB-1
AISB-2
AISB-3
AISB-4
AISB-4R
AISB-5
AISB-5R
AISB-6
AISB-7
AISB-8
AISB-9
AISB-10
AISB-11
AISB-12
AISB-13
MW-3

LEGEND

- I - AREA IDENTIFICATION TAG
- B-3 - SOIL BORING LOCATION (MARCH 1998)
- SOIL BORING LOCATION (JULY 2000)
- AISB-5 - SOIL BORING LOCATION (AUGUST 2003 & OCTOBER 2003)
- MW-1 - GROUNDWATER MONITORING WELL LOCATION (JULY 2000)

B - CONCENTRATIONS ARE BELOW TAGM
VO - VOLATILE ORGANIC COMPOUNDS
(7-8') - DEPTH OF SAMPLE COLLECTION BELOW GROUND SURFACE
* ALL SOIL RESULTS REPORTED IN MICROGRAMS PER KILOGRAM (ppb.)
** ONLY COMPOUND CONCENTRATIONS EXCEEDING NYSDEC TAGM RECOMMEND SOIL CLEANUP OBJECTIVES ARE SHOWN

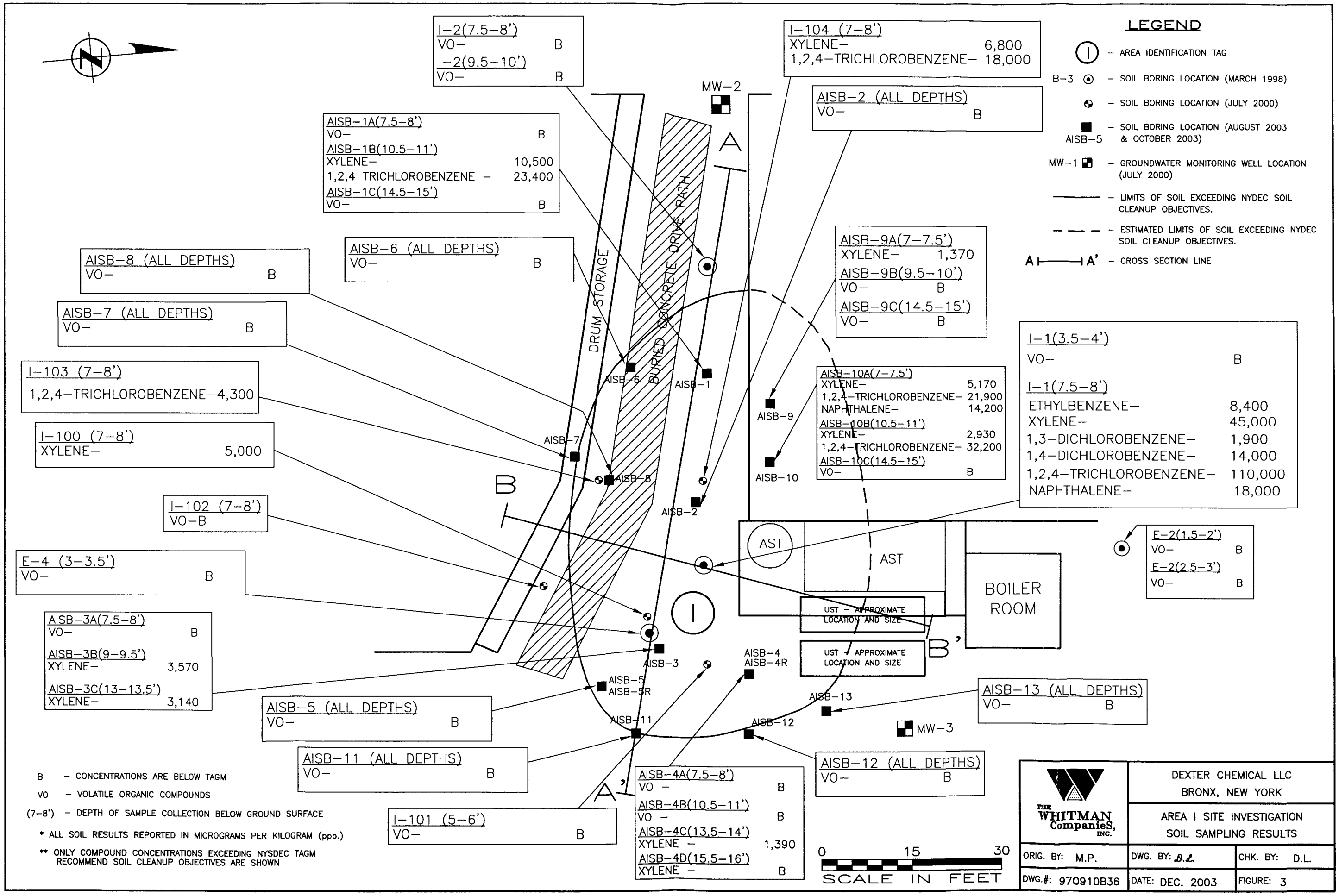
0 15 30
SCALE IN FEET

THE WHITMAN COMPANIES, INC.

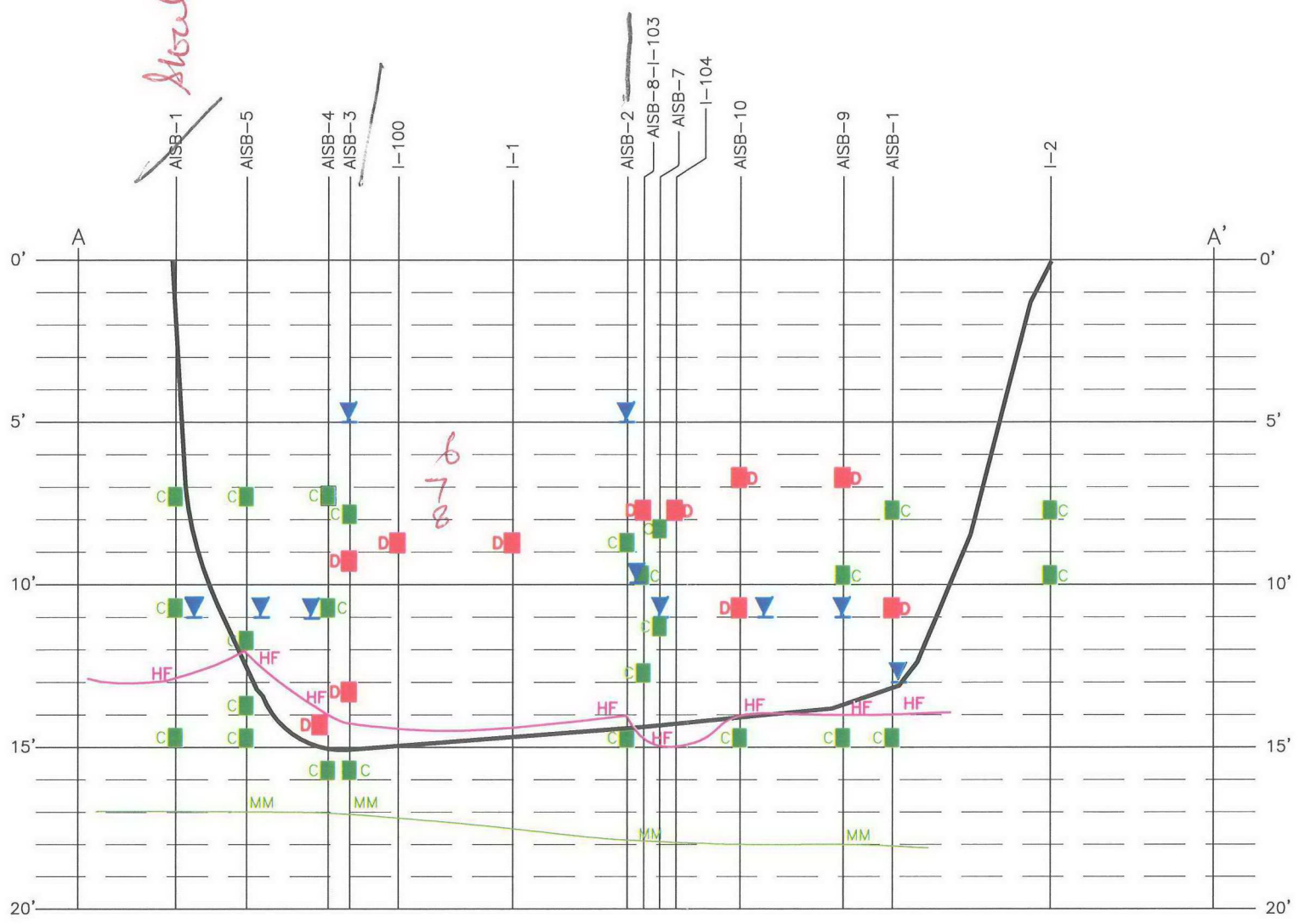
DEXTER CHEMICAL LLC
BRONX, NEW YORK

AREA I SITE INVESTIGATION
SOIL SAMPLING RESULTS

ORIG. BY: M.P.	DWG. BY: D.L.	CHK. BY: D.L.
DWG.#: 970910B35	DATE: OCT. 2003	FIGURE: 2


I-2(7.5-8')
VO- B
I-2(9.5-10')
VO- B
I-104 (7-8')
XYLENE- 6,800
1,2,4-TRICHLOROBENZENE- 18,000
MW-2
AISB-2 (ALL DEPTHS)
VO- B
AISB-1A(7.5-8')
VO- B
AISB-1B(10.5-11')
XYLENE- 10,500
1,2,4 TRICHLOROBENZENE - 23,400
AISB-1C(14.5-15')
VO- B
AISB-6 (ALL DEPTHS)
VO- B
AISB-8 (ALL DEPTHS)
VO- B
AISB-7 (ALL DEPTHS)
VO- B
AISB-9A(7-7.5')
XYLENE- 1,370
AISB-9B(9.5-10')
VO- B
AISB-9C(14.5-15')
VO- B
I-103 (7-8')
1,2,4-TRICHLOROBENZENE-4,300
I-100 (7-8')
XYLENE- 5,000
I-102 (7-8')
VO-B
E-4 (3-3.5')
VO- B
AISB-3A(7.5-8')
VO- B
AISB-3B(9-9.5')
XYLENE- 3,570
AISB-3C(13-13.5')
XYLENE- 3,140
AISB-5 (ALL DEPTHS)
VO- B
AISB-11 (ALL DEPTHS)
VO- B
I-101 (5-6')
VO- B
AISB-10A(7-7.5')
XYLENE- 5,170
1,2,4-TRICHLOROBENZENE- 21,900
NAPHTHALENE- 14,200
AISB-10B(10.5-11')
XYLENE- 2,930
1,2,4-TRICHLOROBENZENE- 32,200
AISB-10C(14.5-15')
VO- B
I-1(3.5-4')
VO- B
I-1(7.5-8')
ETHYLBENZENE- 8,400
XYLENE- 45,000
1,3-DICHLOROBENZENE- 1,900
1,4-DICHLOROBENZENE- 14,000
1,2,4-TRICHLOROBENZENE- 110,000
NAPHTHALENE- 18,000
E-2(1.5-2')
VO- B
E-2(2.5-3')
VO- B
AISB-13 (ALL DEPTHS)
VO- B
AISB-12 (ALL DEPTHS)
VO- B
AISB-4A(7.5-8')
VO - B
AISB-4B(10.5-11')
VO - B
AISB-4C(13.5-14')
XYLENE - 1,390
AISB-4D(15.5-16')
XYLENE - B
DRUM STORAGE
BURIED CONCRETE DRIVE PATH
AISB-1
AISB-2
AISB-3
AISB-4
AISB-4R
AISB-5
AISB-5R
AISB-6
AISB-7
AISB-8
AISB-9
AISB-10
AISB-11
AISB-12
AISB-13
MW-1
MW-3
AST
AST
BOILER ROOM
UST - APPROXIMATE LOCATION AND SIZE
UST - APPROXIMATE LOCATION AND SIZE
A
A'
B
B'
I
LEGEND
I - AREA IDENTIFICATION TAG
B-3 - SOIL BORING LOCATION (MARCH 1998)
- SOIL BORING LOCATION (JULY 2000)
AISB-5 - SOIL BORING LOCATION (AUGUST 2003 & OCTOBER 2003)
MW-1 - GROUNDWATER MONITORING WELL LOCATION (JULY 2000)
- LIMITS OF SOIL EXCEEDING NYDEC SOIL CLEANUP OBJECTIVES.
- ESTIMATED LIMITS OF SOIL EXCEEDING NYDEC SOIL CLEANUP OBJECTIVES.
A A' - CROSS SECTION LINE
B - CONCENTRATIONS ARE BELOW TAGM
VO - VOLATILE ORGANIC COMPOUNDS
(7-8') - DEPTH OF SAMPLE COLLECTION BELOW GROUND SURFACE
* ALL SOIL RESULTS REPORTED IN MICROGRAMS PER KILOGRAM (ppb.)
** ONLY COMPOUND CONCENTRATIONS EXCEEDING NYSDEC TAGM RECOMMEND SOIL CLEANUP OBJECTIVES ARE SHOWN
0 15 30
SCALE IN FEET
THE WHITMAN Companies, INC.
DEXTER CHEMICAL LLC
BRONX, NEW YORK
AREA I SITE INVESTIGATION
SOIL SAMPLING RESULTS
ORIG. BY: M.P.
DWG. BY: D.L.
CHK. BY: D.L.
DWG.#: 970910B36
DATE: DEC. 2003
FIGURE: 3

should be 1)



6
7
8

C – CLEAN SAMPLE

D – DIRTY SAMPLE

– MEADOW MAT (MM)

– HISTORIC FILL (HF)

– WATER

– LIMITS OF SOIL EXCEEDING NYSDEC SOIL CLEANUP OBJECTIVE

HORZ. SCALE
0 30'
VERTICAL. SCALE
0 5'

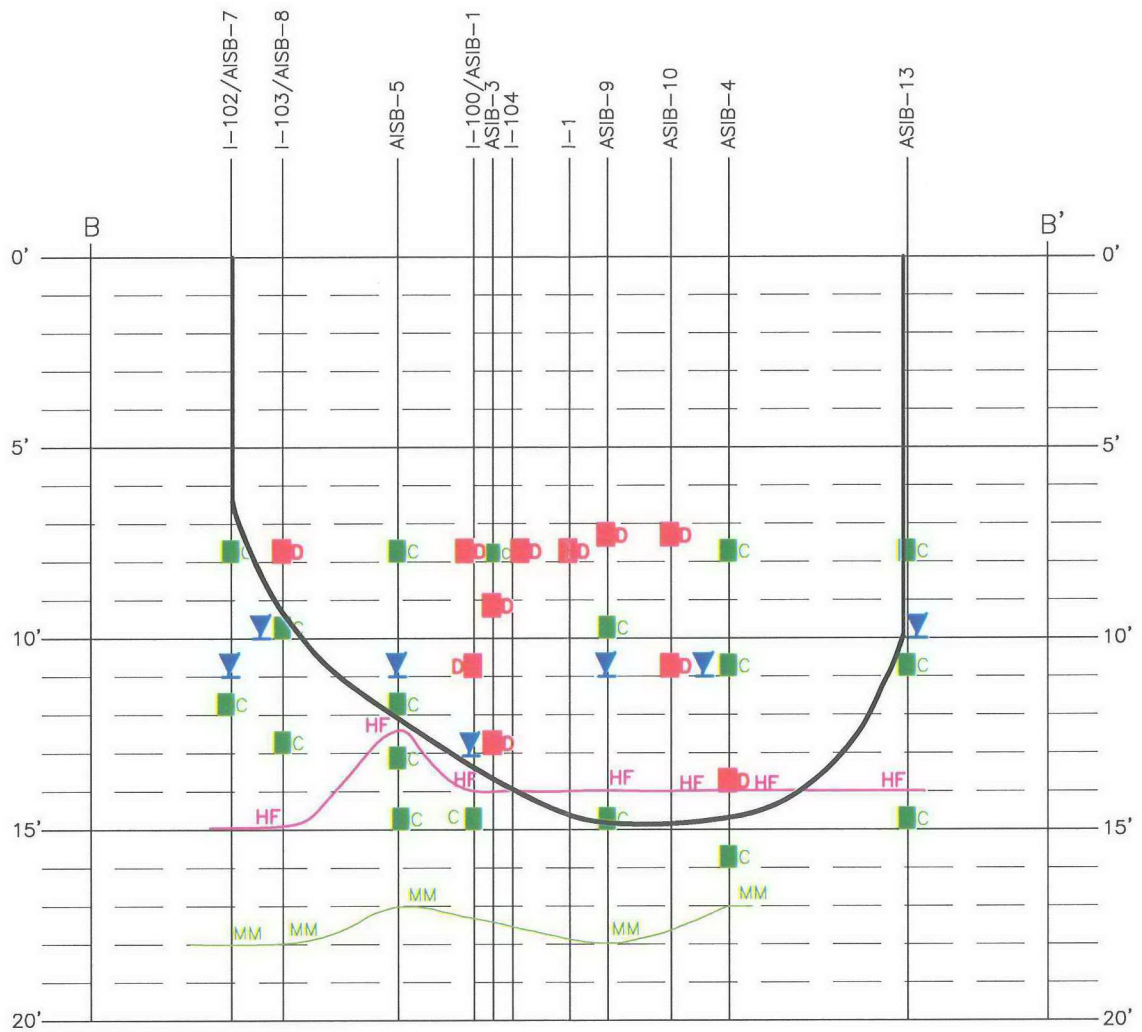
THE WHITMAN COMPANIES, INC.

DEXTER CHEMICAL LLC

BRONX, NEW YORK

AREA I
CROSS SECTION
A–A'

ORIGINAL BY:	DRAWN BY:	DRAWING NO:
M.P.	D.L.	970910CROSSAA
CHECKED BY: M.P.	DATE: JAN. 2004	FIGURE NO: 4



C – CLEAN SAMPLE

D – DIRTY SAMPLE

– MEADOW MAT (MM)

– HISTORIC FILL (HF)

– WATER

– LIMITS OF SOIL EXCEEDING NYSDEC SOIL CLEANUP OBJECTIVE

HORZ. SCALE

0 30'

VERTICAL. SCALE

0 5'

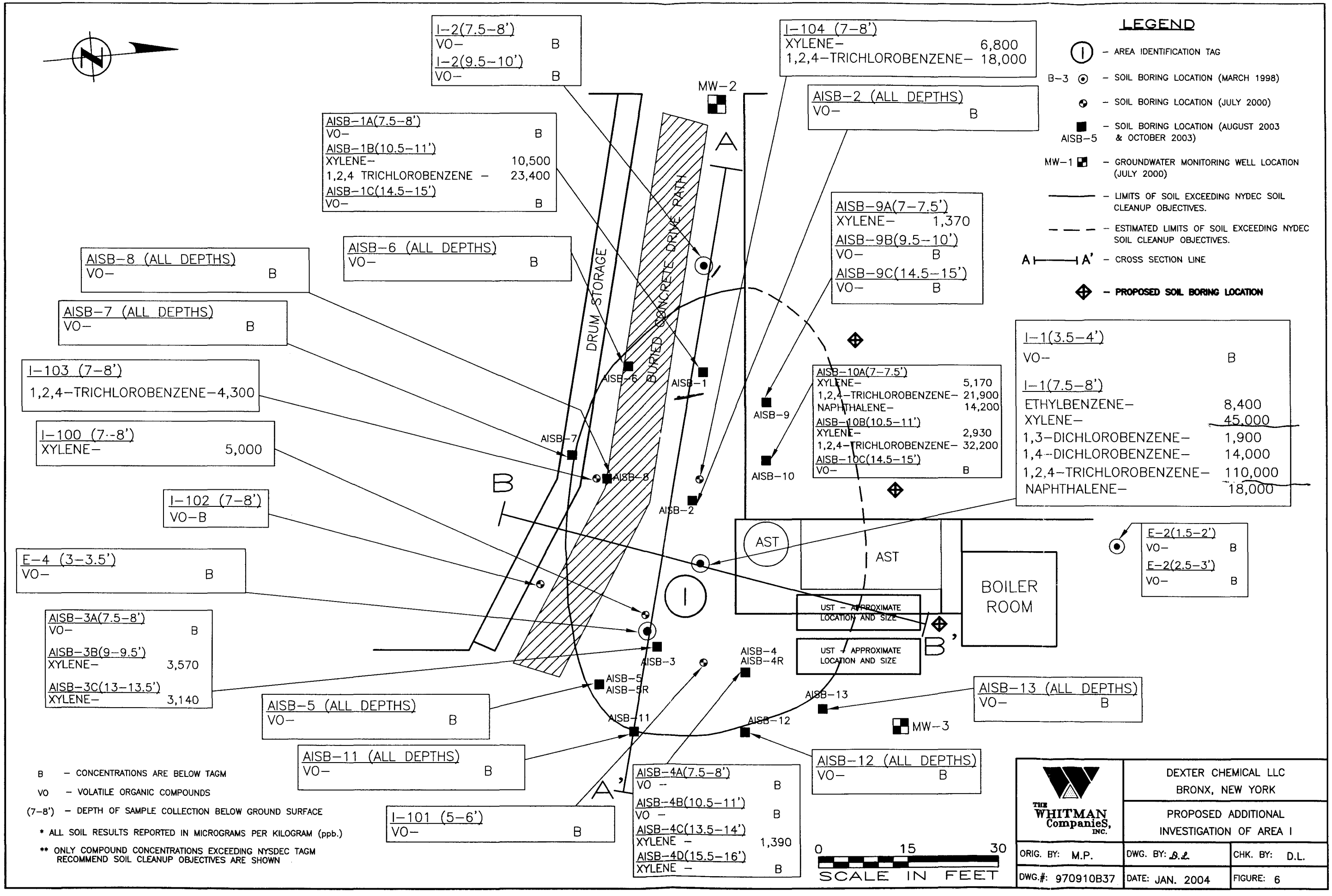
THE WHITMAN COMPANIES, INC.

DEXTER CHEMICAL LLC

BRONX, NEW YORK

AREA I
CROSS SECTION
B–B'

ORIGINAL BY:	DRAWN BY:	DRAWING NO:
M.P.	D.L.	970910CROSSBB
CHECKED BY:	DATE:	FIGURE NO:
M.P.	JAN. 2004	5


I-2(7.5-8')
VO- B
I-2(9.5-10')
VO- B
I-104 (7-8')
XYLENE- 6,800
1,2,4-TRICHLOROBENZENE- 18,000
AISB-2 (ALL DEPTHS)
VO- B
MW-2
AISB-1A(7.5-8')
VO- B
AISB-1B(10.5-11')
XYLENE- 10,500
1,2,4 TRICHLOROBENZENE - 23,400
AISB-1C(14.5-15')
VO- B
AISB-9A(7-7.5')
XYLENE- 1,370
AISB-9B(9.5-10')
VO- B
AISB-9C(14.5-15')
VO- B
AISB-8 (ALL DEPTHS)
VO- B
AISB-6 (ALL DEPTHS)
VO- B
AISB-7 (ALL DEPTHS)
VO- B
I-103 (7-8')
1,2,4-TRICHLOROBENZENE-4,300
I-100 (7-8')
XYLENE- 5,000
I-102 (7-8')
VO-B
E-4 (3-3.5')
VO- B
AISB-3A(7.5-8')
VO- B
AISB-3B(9-9.5')
XYLENE- 3,570
AISB-3C(13-13.5')
XYLENE- 3,140
AISB-5 (ALL DEPTHS)
VO- B
AISB-11 (ALL DEPTHS)
VO- B
I-101 (5-6')
VO- B
DRUM STORAGE
BURIED CONCRETE DRIVE PATH
AISB-6
AISB-1
AISB-7
AISB-8
AISB-2
AISB-9
AISB-10
AISB-3
AISB-5
AISB-5R
AISB-4
AISB-4R
AISB-11
AISB-12
AISB-13
MW-3
A
A'
B
B'
1
AST
AST
BOILER ROOM
UST - APPROXIMATE LOCATION AND SIZE
UST - APPROXIMATE LOCATION AND SIZE
AISB-10A(7-7.5')
XYLENE- 5,170
1,2,4-TRICHLOROBENZENE- 21,900
NAPHTHALENE- 14,200
AISB-10B(10.5-11')
XYLENE- 2,930
1,2,4-TRICHLOROBENZENE- 32,200
AISB-10C(14.5-15')
VO- B
I-1(3.5-4')
VO- B
I-1(7.5-8')
ETHYLBENZENE- 8,400
XYLENE- 45,000
1,3-DICHLOROBENZENE- 1,900
1,4-DICHLOROBENZENE- 14,000
1,2,4-TRICHLOROBENZENE- 110,000
NAPHTHALENE- 18,000
E-2(1.5-2')
VO- B
E-2(2.5-3')
VO- B
AISB-13 (ALL DEPTHS)
VO- B
AISB-12 (ALL DEPTHS)
VO- B
AISB-4A(7.5-8')
VO - B
AISB-4B(10.5-11')
VO - B
AISB-4C(13.5-14')
XYLENE - 1,390
AISB-4D(15.5-16')
XYLENE - B
LEGEND
I - AREA IDENTIFICATION TAG
B-3 - SOIL BORING LOCATION (MARCH 1998)
- SOIL BORING LOCATION (JULY 2000)
AISB-5 - SOIL BORING LOCATION (AUGUST 2003 & OCTOBER 2003)
MW-1 - GROUNDWATER MONITORING WELL LOCATION (JULY 2000)
- LIMITS OF SOIL EXCEEDING NYDEC SOIL CLEANUP OBJECTIVES.
- ESTIMATED LIMITS OF SOIL EXCEEDING NYDEC SOIL CLEANUP OBJECTIVES.
A A' - CROSS SECTION LINE
- PROPOSED SOIL BORING LOCATION
B - CONCENTRATIONS ARE BELOW TAGM
VO - VOLATILE ORGANIC COMPOUNDS
(7-8') - DEPTH OF SAMPLE COLLECTION BELOW GROUND SURFACE
* ALL SOIL RESULTS REPORTED IN MICROGRAMS PER KILOGRAM (ppb.)
** ONLY COMPOUND CONCENTRATIONS EXCEEDING NYSDEC TAGM RECOMMEND SOIL CLEANUP OBJECTIVES ARE SHOWN
0 15 30
SCALE IN FEET
THE WHITMAN CompanieS, INC.
DEXTER CHEMICAL LLC
BRONX, NEW YORK
PROPOSED ADDITIONAL INVESTIGATION OF AREA I
ORIG. BY: M.P.
DWG. BY: D.L.
CHK. BY: D.L.
DWG.#: 970910B37
DATE: JAN. 2004
FIGURE: 6

1SB-2 (7-8')	
VO-	B
BN-	B
ARSENIC-	B
BERYLLIUM-	0.52
CADMIUM-	B
CHROMIUM-	19.0
COPPER-	B
MERCURY-	B
NICKEL-	17.2
ZINC-	49.3

A-104 (7-8')	
XYLENE-	17,000
1,3-DICHLOROBENZENE-	2,200
1,2-DICHLOROBENZENE-	14,000
1,4-DICHLOROBENZENE-	7,500
NAPHTHALENE-	32,000
1,2,4-TRICHLOROBENZENE-	110,000
MERCURY-	290
A-104B (14-15')	
BENZO(a)ANTHRACENE-	5,000
CHRYSENE-	5,800
BENZO(b)FLUORANTHENE-	6,100
BENZO(k)FLUORANTHENE-	2,500
BENZO(a)PYRENE-	5,000
DIBENZ(a,h)ANTHRACENE-	710
VO-	B
MERCURY-	160
A-104C (19-20')	
VO-	B
BN-	B
MERCURY-	B

MIXING KETTLES

ISB-3 (7-8')	
CHLOROBENZENE	260,000
ETHYLBENZENE-	19,000
XYLENE-	79,000
1,2,4-TRICHLOROBENZENE-	6,100
ARSENIC-	B
BERYLLIUM-	0.47
CADMIUM-	B
CHROMIUM-	16.1
COPPER-	26
MERCURY-	0.19
NICKEL-	14.2
ZINC-	72.9

A-100 (4-5')	
VO-	B
BN-	B
MERCURY-	B

A-101 (7-8')	
TOLUENE-	28,000
ETHYLBENZENE-	49,000
XYLENE-	450,000
MERCURY-	1,100

MP-5
MP-4
MP-3
SVE-1
AS-1
MP-1
MP-2
LYE TANK
SURFACE ACID

A-102A (7-8')	
ETHYLBENZENE-	5,900
XYLENE-	29,000
NAPHTHALENE-	43,000
MERCURY-	B
A-102B (14-15')	
XYLENE-	2,700
1,3-DICHLOROBENZENE-	2,300
1,4-DICHLOROBENZENE-	11,000
MERCURY-	160
A-102C-NA	
A-102D (19-20')	
VO-	B
BN-	B
MERCURY-	B

A-105A (7-8')	
TOLUENE-	15,000
ETHYLBENZENE-	58,000
XYLENE-	410,000
NAPHTHELENE-	37,000
MERCURY-	130
A-105B (14-15')	
XYLENE-	3,000
BN-	B
MERCURY-	200
A-105C (19-20')	
VO-	B
BN-	B
MERCURY-	B

A-103A (6-7')	
XYLENE-	12,000
BN-	B
MERCURY-	370

A-1 (4-6')	
CHLOROBENZENE-	7,200
XYLENE-	25,000
BENZENE-	430
A-1 (20-21')	
VO-	B
BN-	B
ARSENIC-	7.9
BERYLLIUM-	0.89
CADMIUM-	B
CHROMIUM-	36.4
COPPER-	B
MERCURY-	B
NICKEL-	26.4
ZINC-	76.4

MW-6 (7-8')	
VO-	B
BN-	B
ARSENIC-	B
BERYLLIUM-	0.46
CADMIUM-	B
CHROMIUM-	24.0
COPPER-	38.1
MERCURY-	B
NICKEL-	17.7
ZINC-	56.4

1SB-1 (7-9')	
XYLENE-	26,000
1,2,4-TRICHLOROBENZENE-	18,000
NAPHTHALENE-	28,000
ARSENIC-	B
BERYLLIUM-	0.23
CADMIUM-	0.44
CHROMIUM-	18.6
COPPER-	194
MERCURY-	0.64
NICKEL-	14.2
ZINC-	111

LEGEND

- AS-1 ⊕ – AIR SPARGING POINT
- SVE-1 ⊕ – SOIL VAPOR EXTRACTION POINT
- MP-1 ▽ – MONITORING POINT
- A-102 ⊙ – SOIL BORING LOCATION (JULY 2000)
- ISB-3 ⊗ – SOIL BORING TAKEN ON 11/97
- A-1 ⊗ – SOIL BORING TAKEN ON 3/98
- (7-8') – DEPTH OF SAMPLE COLLECTION BELOW GRADE
- VO – VOLATILE ORGANIC COMPOUNDS
- BN – BASE NEUTRAL COMPOUNDS
- B – CONCENTRATIONS ARE BELOW TAGM
- NA – NOT ANALYZED

* ALL RESULTS REPORTED IN MICROGRAMS PER KILOGRAM (ppb.)

** ONLY COMPOUND CONCENTRATIONS EXCEEDING NYSDEC TAGM RECOMMEND SOIL CLEANUP OBJECTIVES ARE SHOWN

0 20 40
SCALE IN FEET

THE WHITMAN COMPANIES, INC.

DEXTER CHEMICAL LLC
BRONX, NEW YORK

PROPOSED LOCATION OF AIR SPARGING AND SOIL VAPOR EXTRACTION POINTS

ORIG. BY: R.B.	DWG. BY: B.L.	CHK. BY: R.B.
DWG.#: 970910B12	DATE: JAN. 2004	FIGURE: 7

VACANT LOT

WHITTIER STREET

(842 WHITTIER)

OFFICES

OFFICES

LOCKER ROOM

LAB

Ⓝ

HOODS

STORAGE FINISHED GOODS

Ⓜ

WAREHOUSE

2,500-GALLON METHANOL UST

WAREHOUSE

Ⓘ

PLANT

Ⓗ

PHOSPHATION BATCHES

(EMPTY LOT)

BOILER ROOM

CHEMICAL STORAGE

SULFATION BATCHES

BOILER ROOM

PROPERTY BOUNDARY

Ⓔ

Ⓕ

Ⓖ

Ⓒ

PARKING AREA

SHIPPING

Ⓐ

Ⓑ

YARD

2,000-GALLON ISOPROPANOL UST
1,500-GALLON VARSOL UST

FORMER LAB

Ⓓ

MAIN OFFICE

(819 EDGEWATER)

(835 EDGEWATER)

(845 EDGEWATER)

(849 EDGEWATER)

(851 EDGEWATER)

(855 EDGEWATER)

TWO (2) 550-GALLON GASOLINE UST

550-GALLON DIESEL UST

EDGEWATER ROAD

LEGEND

Ⓐ – IDENTIFICATION TAG

● – UNDERGROUND STORAGE TANK LOCATION

0 40 80

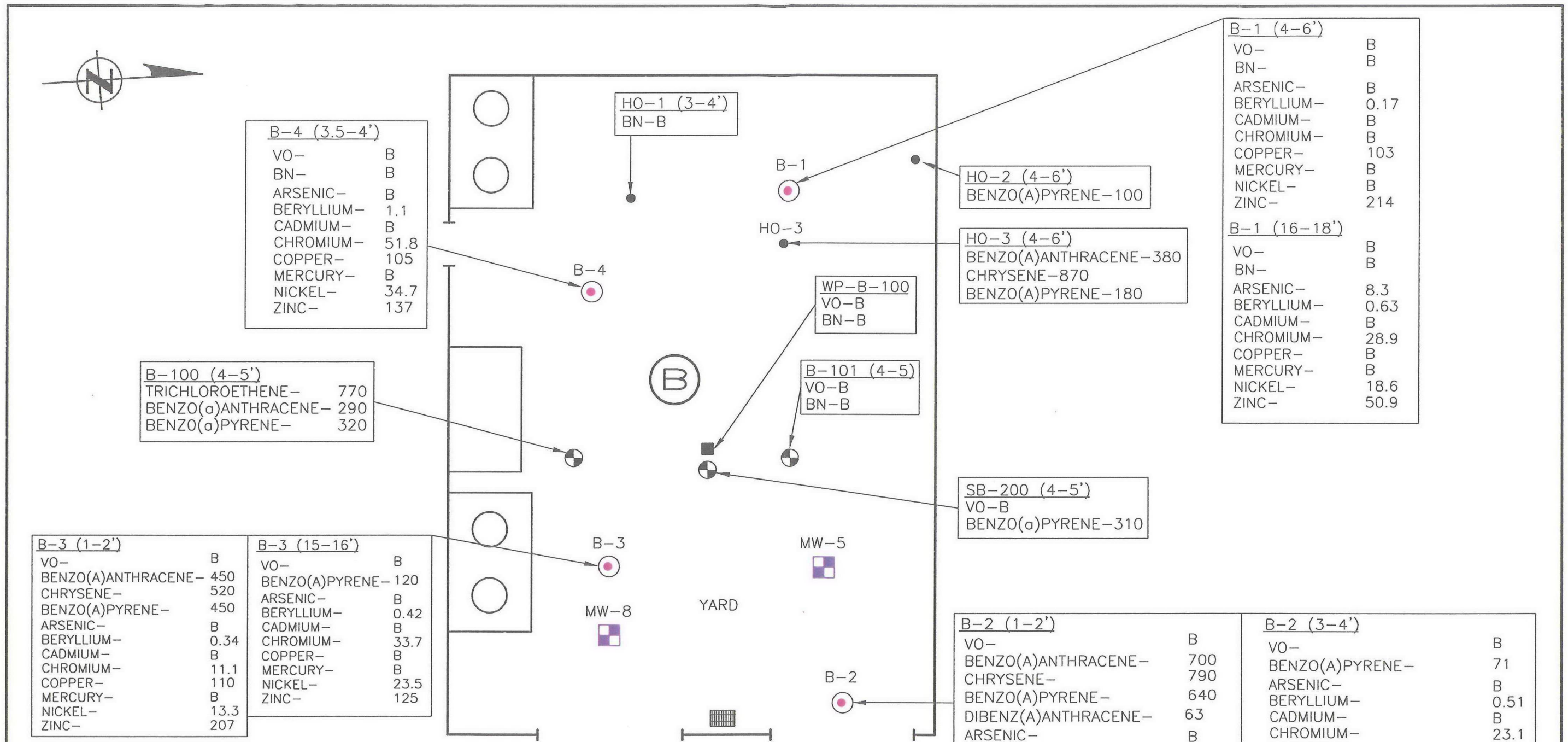
SCALE IN FEET

THE WHITMAN Companies, INC.

DEXTER CHEMICAL LLC
BRONX, NEW YORK

LOCATION OF UNDERGROUND STORAGE TANKS REMOVED IN MAY 1995

ORIG. BY: R.B.	DWG. BY: B.L.	CHK. BY: R.B.
DWG.#: 970910D3	DATE: FEB. 2004	FIGURE: 8



LEGEND

- (B) – AREA IDENTIFICATION TAG
- B-3 – SOIL BORING LOCATION (MARCH 1998)
- HO-3 – HEATING OIL TANK SOIL BORING LOCATION (NOV. 1997)
- ■ – GRAB GROUND WATER SAMPLE LOCATON
- MW-5 – GROUNDWATER MONITORING WELL LOCATION (MARCH 1998)
- ⊕ – SOIL BORING LOCATION (JULY & SEPTEMBER 2000)
- (7-8') – DEPTH OF SAMPLE COLLECTION BELOW GROUND SURFACE
- VO – VOLATILE ORGANIC COMPOUNDS

- B – CONCENTRATIONS ARE BELOW TAGM
- BN – BASE NEUTRAL COMPOUNDS
- HG – MERCURY

* ALL SOIL RESULTS REPORTED IN MICROGRAMS PER KILOGRAM (ppb.)

** ONLY COMPOUND CONCENTRATIONS EXCEEDING NYSDEC TAGM RECOMMENDED SOIL CLEANUP OBJECTIVES ARE SHOWN

*** GROUND WATER RESULTS REPORTED IN MICROGRAMS PER LITER (ppb.)

0 15 30
SCALE IN FEET

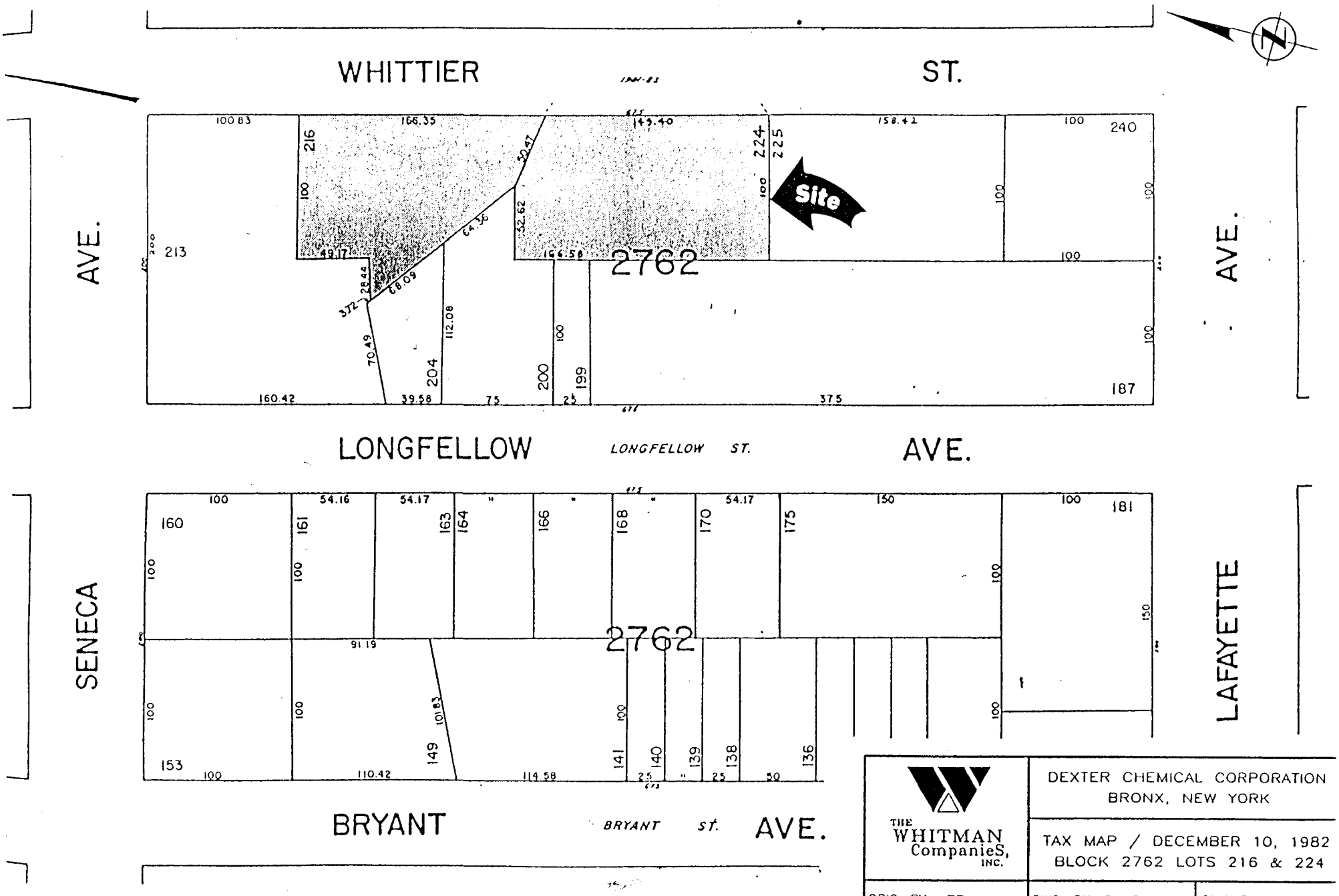
THE WHITMAN Companies, INC.

DEXTER CHEMICAL LLC
BRONX, NEW YORK

AREA B SITE INVESTIGATION
SOIL AND GRAB
GROUND WATER SAMPLING RESULTS

ORIG. BY: R.B.	DWG. BY: B.L.	CHK. BY: R.B.
DWG.#: 970910-B21	DATE: JULY 2001	FIGURE: 9

ATTACHMENTS



NOT TO SCALE

THE WHITMAN Companies, INC.	DEXTER CHEMICAL CORPORATION BRONX, NEW YORK	
	TAX MAP / DECEMBER 10, 1982 BLOCK 2762 LOTS 216 & 224	
ORIG. BY: TP	DWG. BY: S. Smith	CHK. BY: TP
DWG.#: 970910	DATE: OCT 1997	FIGURE: 3

I-2(7.5-8')
VO- B
I-2(9.5-10')
VO- B

AISB-1A(7.5-8')
VO- B
AISB-1B(10.5-11')
XYLENE- 10,500
1,2,4 TRICHLOROBENZENE - 23,400
AISB-1C(14.5-15')
VO- B

AISB-6 (ALL DEPTHS)
VO- B

AISB-8 (ALL DEPTHS)
VO- B

AISB-7 (ALL DEPTHS)
VO- B

I-103 (7-8')
1,2,4-TRICHLOROBENZENE-4,300

I-100 (7-8')
XYLENE- 5,000

I-102 (7-8')
VO-B

E-4 (3-3.5')
VO- B

AISB-3A(7.5-8')
VO- B
AISB-3B(9-9.5')
XYLENE- 3,570
AISB-3C(13-13.5')
XYLENE- 3,140

AISB-5 (ALL DEPTHS)
VO- B

AISB-11 (ALL DEPTHS)
VO- B

I-101 (5-6')
VO- B

I-104 (7-8')
XYLENE- 6,800
1,2,4-TRICHLOROBENZENE- 18,000

AISB-2 (ALL DEPTHS)
VO- B

AISB-9A(7-7.5')
XYLENE- 1,370
AISB-9B(9.5-10')
VO- B
AISB-9C(14.5-15')
VO- B

AISB-10A(7-7.5')
XYLENE- 5,170
1,2,4-TRICHLOROBENZENE- 21,900
NAPHTHALENE- 14,200
AISB-10B(10.5-11')
XYLENE- 2,930
1,2,4-TRICHLOROBENZENE- 32,200
AISB-10C(14.5-15')
VO- B

I-1(3.5-4')
VO- B
I-1(7.5-8')
ETHYLBENZENE- 8,400
XYLENE- 45,000
1,3-DICHLOROBENZENE- 1,900
1,4-DICHLOROBENZENE- 14,000
1,2,4-TRICHLOROBENZENE- 110,000
NAPHTHALENE- 18,000

E-2(1.5-2')
VO- B
E-2(2.5-3')
VO- B

AISB-13 (ALL DEPTHS)
VO- B

AISB-12 (ALL DEPTHS)
VO- B

AISB-4A(7.5-8')
VO - B
AISB-4B(10.5-11')
VO - B
AISB-4C(13.5-14')
XYLENE - 1,390
AISB-4D(15.5-16')
XYLENE - B

MW-2
MW-3
AISB-1
AISB-2
AISB-3
AISB-4
AISB-4R
AISB-5
AISB-5R
AISB-6
AISB-7
AISB-8
AISB-9
AISB-10
AISB-11
AISB-12
AISB-13

DRUM STORAGE
BURIED CONCRETE DRIVE PATH
AST
AST
BOILER ROOM
UST - APPROXIMATE LOCATION AND SIZE
UST - APPROXIMATE LOCATION AND SIZE

A
A'
B
B'
1
1'

LEGEND

- 1 – AREA IDENTIFICATION TAG
- B-3 – SOIL BORING LOCATION (MARCH 1998)
- SOIL BORING LOCATION (JULY 2000)
- AISB-5 – SOIL BORING LOCATION (AUGUST 2003 & OCTOBER 2003)
- MW-1 – GROUNDWATER MONITORING WELL LOCATION (JULY 2000)
- LIMITS OF SOIL EXCEEDING NYDEC SOIL CLEANUP OBJECTIVES.
- ESTIMATED LIMITS OF SOIL EXCEEDING NYDEC SOIL CLEANUP OBJECTIVES.
- A – A' – CROSS SECTION LINE
- **PROPOSED SOIL BORING LOCATION**

B – CONCENTRATIONS ARE BELOW TAGM

VO – VOLATILE ORGANIC COMPOUNDS

(7-8') – DEPTH OF SAMPLE COLLECTION BELOW GROUND SURFACE

* ALL SOIL RESULTS REPORTED IN MICROGRAMS PER KILOGRAM (ppb.)

** ONLY COMPOUND CONCENTRATIONS EXCEEDING NYSDEC TAGM RECOMMEND SOIL CLEANUP OBJECTIVES ARE SHOWN

0 15 30
SCALE IN FEET

THE WHITMAN COMPANIES, INC.

DEXTER CHEMICAL LLC
BRONX, NEW YORK

PROPOSED ADDITIONAL INVESTIGATION OF AREA I

ORIG. BY: M.P.	DWG. BY: B.L.	CHK. BY: D.L.
DWG.#: 970910B37	DATE: JAN. 2004	FIGURE: 6