p a r s o n s
180 Lawrence Bell Drive, Suite 104 • Williamsville, New York 14221 • (716) 633-7074 • Fax (716) 633-7195

October 18, 2005

Mr. Maurice Moore
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

RE: Tifft and Hopkins Site
NYSDEC Site No. 915131
Remedial Action Report

Dear Mr. Moore:

Attached is the Remedial Action Report for an interim remedial measure (IRM) that was conducted at the Tifft and Hopkins Site (Site) from January through June 2005. The IRM was conducted under a New York State Department of Environmental Conservation (NYSDEC) Order on Consent (Order), Index #B9-0674-04-08 (NYSDEC, 2005). Based on post-excavation soil and groundwater sampling results collected during the IRM, it is recommended that NYSDEC remove the Site (it is currently a Class 2a Site) from the Registry of Inactive Hazardous Waste Sites. We also recommend that no further monitoring activities occur, and that that the remaining groundwater monitoring wells be properly abandoned.

The IRM was conducted in accordance with the Order, and with the NYSDEC-approved January 2005 IRM Work Plan. Approximately 33,000 cubic yards of material were removed, transported to the nearby Alltift Site (NYSDEC Site No. 9-15-054), consolidated, and placed under the cap.

Minor modifications to the Work Plan are noted within the Remedial Action Report, and the field changes were approved by NYSDEC. The primary changes to the IRM Work Plan are discussed below and in the enclosed Remedial Action Report.

In two soil samples from the bottom of the excavation (BS-5A and BS-6), 4-chloroaniline slightly exceeded the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 value. With the NYSDEC's concurrence, the excavation did not proceed deeper.

In sidewall soil sample SW-9, located on the western side of the excavation, outside the limits of the Site, the chlorobenzene concentration exceeded the TAGM value. However, with NYSDEC's concurrence, the excavation did not proceed further west.

Following excavation, all groundwater results were below the NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1) Class GA groundwater standard, except chlorobenzene in well MW-8. The last three rounds of sampling from this well have shown consistent results, and are not expected to increase, as the source material has been removed. Also, there is little potential for offsite migration, due to negligible groundwater gradients.

We appreciate the NYSDEC's efforts in working with Honeywell to develop and implement this remedy. If you have any questions or comment regarding this report, or the recommendations listed above, please feel free to contact me at (716) 633-7074.

Very truly yours,

Mark S. Raybuck

Mark Raybuck
Project Manager

cc: Martin Doster (NYSDEC)
Edward Belmore (NYSDEC)
Cameron O'Connor (NYSDOH)
Gary Litwin (NYSDOH)
Tim Metcalf (Honeywell)
Christopher Burns (Clough, Harbour)
Daniel Cantor (Arnold and Porter)
David Flynn (Phillips, Lytle)
Bernard Jakubik
Raymond Radotavich

REMEDIAL ACTION REPORT

TIFFT AND HOPKINS SITE
Buffalo, New York
NYSDEC Site No. 9-15-131

SUBMITTED TO:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS WASTE REMEDIATION

PREPARED FOR:

Honeywell

Morristown, New Jersey

PREPARED BY:

PARSONS
180 Lawrence Bell Drive, Suite 104
Williamsville, New York 14221

October 2005

REMEDIAL ACTION REPORT

TIFFT AND HOPKINS SITE
Buffalo, New York
NYSDEC Site No. 9-15-131

SUBMITTED TO:

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PREPARED FOR:

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Morristown, New Jersey

PREPARED BY:

PARSONS
180 Lawrence Bell Drive, Suite 104
Williamsville, New York 14221

October 2005

REVIEWED AND APPROVED BY:

Project Manager: Mark S. Raybuck 10/17/05
Date

Technical Manager: Robert Kubicki 10/17/05
Date

Remedial Action Report
Tifft and Hopkins Site
NYSDEC Site No: 9-15-131

Engineering Certification Statement

I hereby certify[1] that all requirements of the "Remedial Action Work Plan, Tifft and Hopkins Site, Buffalo, New York, NYSDEC Site No. 9-15-131," dated January 25, 2005, have been complied with, and all activities have been performed in full accordance with said Work Plan, with the exceptions noted within this Remedial Action Report, and in the attached field changes and field approvals.

Thomas Andrews, P.E.
New York State Professional Engineer
No. 047438

PARSONS
180 Lawrence Bell Drive, Suite 104
Williamsville, New York 14221



[1] Certification/Certify means to state or declare a professional opinion of conditions whose true properties cannot be known at the time such certification is made, despite appropriate professional evaluation. The professional opinion made is based on limited observations and widely spaced tests. This certification of conditions in no way relieves any other party from meeting requirements imposed by the contract or other means, nor does it warranty/guarantee the conditions of the constructed product.

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REMEDIAL ACTION REPORT
TIFFT AND HOPKINS
NYDEC SITE NO. 9-15-131

1.0 INTRODUCTION

An interim remedial measure (IRM) was conducted at the Tifft and Hopkins Site (Site) from January through June 2005. The IRM was conducted under a New York State Department of Environmental Conservation (NYSDEC) Order on Consent (Order), Index #B9-0674-04-08 (NYSDEC, 2005). The Order between NYSDEC and Honeywell was executed in February 2005.

The primary objectives of the IRM, as stated in the Order were: (1) removal of up to 32,000 cubic yards of material from the Site, which includes the materials that were identified in the April 2004 Site Investigation Report (Parsons, 2004a) as being potentially impacted with Honeywell constituents of concern (HON-COCs); and (2) the incorporation of the excavated material at the nearby Alltift Landfill Site. The HON-COCs are chlorobenzene, 4-chloroanaline, 1,2-dichlorobenzene, 1,3-dichlorobenzene, nitrobenzene, and 1,2,4-trichlorobenzene. At the request of NYSDEC, lead, although not a HON-COC, was also analyzed. Additionally, three sets of underground storage tanks (USTs), a total of six tanks, not associated with Honeywell, were removed.

This report provides background information, and details documenting the completed IRM tasks, including excavation limits and depths, post-excavation sampling results, as-built drawings, and a photographic log.

2.0 SITE LOCATION AND DEFINITION

The Tifft and Hopkins Site is comprised of sections of the properties known as 666 Tifft Street, 360 Hopkins Street, and 380 Hopkins Street, all located in the City of Buffalo (Figure 1). The Site, as defined by the Order, consisted of three distinct areas. The main area was located in the center of the properties. It included the area identified in the April 2004 Site Investigation Report (SIR) as being potentially impacted with HON-COCs, as well as a set of USTs. In addition to the potential HON-COC impacted area, Honeywell also completed the removal of USTs in two areas that were previously identified; these USTs had no connection with the HON-COCs. The first UST area was located on the 666 Tifft Street property near the Tifft Street entrance, and the second was located at the eastern end of the 380 Hopkins Street property.

All the properties are currently zoned for, and are being used for, commercial and/or industrial purposes. Together, the three properties form an approximate 7-acre area that is relatively flat. Prior to any development, the Tifft and Hopkins Site was shown on maps as a

low-lying wetland area. Currently, the portion of the properties that comprise the site are mostly undeveloped and open filled areas, serving primarily as a parking facility for tractor-trailers. There is an office/garage/warehouse building in the southwest corner of the 666 Tifft St. parcel, which is being operated as a heavy equipment repair business. Prior to the IRM activities, a chain-link fence divided the northern border of the tractor-trailer parking lot and the 380 Hopkins parcel. The 380 Hopkins St. parcel was mostly open, with brush and trees growing along the fence lines that surround the parcel. Abandoned motor vehicles, piles of tires, and miscellaneous debris were randomly scattered across the 380 Hopkins parcel.

The property owners have been identified as Mr. Raymond Radotavich, the reported owner of 666 Tifft Street and 360 Hopkins Street; and Mr. Bernard Jakubik, the reported owner of 380 Hopkins Street. Access agreements between Honeywell and both property owners were obtained prior to commencing work.

3.0 BACKGROUND

Reportedly, in 1985, during the excavation of a water main located in the paper street known as Providence Street (previously Roland Avenue), the City of Buffalo exposed a layer of black, granular, odorous material, approximately four to seven feet below the parking lot. Following some preliminary site assessment work conducted in 1991 and 1993, NYSDEC undertook an Immediate Investigation Work Assignment (IIWA) in October 1997, and reported the results in November 1998 (NYSDEC, 1998a).

Based on the results of this 1997 IIWA, and other historical information, NYSDEC issued a letter in December 1998 stating "Through the combination of chemical analysis, site location and historical information, it is likely that the material found at the site has the same source as the waste materials previously identified at the Alltift Landfill." (NYSDEC, 1998b). This included the potential HON-COCs.

In 2003, Honeywell voluntarily completed two additional investigations (February and November 2003) to determine the location of the fill that had been potentially impacted with the HON-COCs (Parsons, 2004a).

Results from multiple investigations have shown that there was a concentration of HON-COCs in three areas near the central part of the Site. The investigation had shown that the depth of the material is probably limited to the upper 7.5 feet of material, which includes the fill and the upper, more permeable layers of native soils. In addition to HON-COCs, other chemical constituents not related to former Honeywell operations were also found at the site. These constituents included polycyclic aromatic hydrocarbons (PAHs), metals, and petroleum related compounds. Based on the results of previous investigation work, and subsequent discussions with NYSDEC, an area that represented the apparent limit of material potentially impacted by HON-COCs was delineated.

In September 2004, Honeywell completed an investigation (Parsons, 2004b) to determine if the subsurface materials within the delineated area, to a depth of eight feet, were suitable for excavation, and consolidation within the Alltift Site. The investigation showed that none of the 30 samples contained the targeted constituents (benzene, nitrobenzene, lead, mercury,

chromium) with concentrations in excess of their respective hazardous waste regulatory levels for the toxicity characteristic. Results of the September 2004 Investigation were presented to NYSDEC in the October 15, 2004 Investigation Report (Parsons, 2004).

Based on the analytical results from the September 2004 Investigation, and the NYSDEC letter dated December 14, 1998, it was determined that the material within the delineated area was suitable for consolidation within the Alltift Site, and the Alltift Site had the capacity to manage the excavated materials under the planned landfill cover. Additionally, NYSDEC December 1998 letter indicated that the materials at the Tifft and Hopkins Site had the same source as those identified at the Alltift Site. Consequently, the Order on Consent stated that the material could be placed at the Alltift Site.

4.0 REMEDIAL ACTION SCOPE OF WORK

An IRM was conducted between January and June 2005, in accordance with the Order on Consent and the NYSDEC-approved IRM Work Plan (Parsons, 2005). A photographic log of key work activities is provided in Appendix A, and field changes and approvals are provided in Appendix B. Details of each IRM task are provided below.

4.1 Health and Safety

The IRM was conducted in accordance with the Health and Safety Specification (01620) in the January 2005 Remedial Action Work Plan, and in accordance with the February 2005 Remedial Construction Health and Safety Plan (GZA, 2005).

Continuous air monitoring was completed during all ground intrusive activities in accordance with the Community Air Monitoring Plan (CAMP) provisions included in the Health and Safety Plan. This CAMP was designed in accordance with Appendix 1A of the Draft DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, 2002).

Monitoring was completed for volatile organic compounds (VOCs), particulate concentrations, and noise levels. Monitoring was conducted at the site boundaries, including up-wind and down-wind locations. None of the sampling completed indicated that concentrations for monitored constituents exceeded the action levels identified in the CAMP. Results of the air monitoring are included in the electronic version of this report, as Attachment 1.

4.2 Citizen Participation

Prior to construction activities, NYSDEC prepared and mailed a Fact Sheet (Appendix C) to area residents and businesses, notifying them of the upcoming work. A document repository was established at the Dudley Branch library, to provide the community with access to specific written documents as they became available.

4.3 Clearing and Grubbing

Prior to starting the excavation, trees and brush were cleared from the work area. In addition, a small frame building on the west end of the 380 Hopkins Street property was demolished. The chain-link fence and gates along the north side of the former Providence Street

paper street were removed. The abandoned vehicles and other debris located within the proposed excavation area were moved to the periphery of the Site, to be managed by the property owner. Per NYSDEC's approval, rubble from the building demolition activities, as well as trees and brush, were transported to the Alltift Site for management, in accordance with the May 2003 Alltift Design Documents and June 2003 Alltift Contract Documents (Parsons, 2003a and 2003b).

A letter was sent to the City of Buffalo (Appendix D) notifying the City that an onsite building had been removed, in accordance with the scope of work and the Order. Because the IRM was implemented under an Order, no demolition permit from the City was required. However, the building was removed in accordance with City requirements.

4.4 Groundwater Control and Management

To limit lateral groundwater flow into the excavation during material removal a low permeability wall was initially installed around the work area to depths of approximately eight feet. After the remedial activities were completed, the upper portion of the low permeability wall, from 0 to 3 feet below grade, was removed and replaced with unclassified fill and granular backfill.

Prior to the start of remedial activities, Parsons obtained a permit with the Niagara Falls Water Board to dispose of construction water at the Niagara Falls, New York wastewater treatment facility. The permit was issued on January 10, 2005 (Niagara Falls Water Board, 2005).

While the low permeability wall was generally effective, approximately 118,100 gallons of construction water were removed from the excavation, and temporarily contained on-site in Baker tanks. In accordance with the permit, two construction water samples were collected and analyzed during the course of the project. The first sample was collected prior to the initial shipment of water to the Niagara Falls wastewater treatment facility. The second sample was collected one month after the start of excavation activities. The results of the samples were compared to the permit limits. Samples of the construction water were analyzed at Severn Trent Laboratories, in Amherst, New York. Table 1 lists the analytical results from two construction water samples. Based on the analytical results, construction water did not require additional treatment prior to transport by tanker truck, and disposal at the Niagara Falls wastewater treatment facility.

4.5 Underground Storage Tank Removal

In addition to the soil/fill removal, six underground fuel storage tanks, unrelated to Honeywell, were identified on the properties:

- Two tanks located on the eastern end of 380 Hopkins St. were reported to have contained gasoline. It was believed that these two tanks were abandoned in place. During remedial excavation, however, it was apparent that the tanks had not been abandoned in place, and were filled with water.

- Two tanks located at 666 Tifft St. were inactive, but remained in place. October 2004 measurements indicated approximately 0.13 feet of water with approximately 0.1 feet of floating product in the northern tank, and approximately 0.7 feet of water and no product in the southern tank. These two tanks were reportedly used for the storage of diesel fuel.
- The liquid levels of two USTs located on the western end of 380 Hopkins Street (within the proposed large excavation area) were also measured in October 2004. There was approximately 5.2 feet of water with 0.1 feet of floating product in the western tank, and 3.1 feet of water with 0.1 feet of floating product in the eastern tank. These two tanks were reportedly used for storage of diesel fuel.

The three sets of USTs were excavated and removed from the Site as part of the IRM. A copy of the UST Removal Report is included as Appendix E. This report was submitted to NYSDEC in July 2005. The USTs were be removed in accordance with applicable rules and regulations governing USTs in the State of New York, including the NYSDEC Spill Technology and Remediation Series (STARS) Memo No. 1 (NYSDEC, 1992). The tanks were cleaned, cut into sections, and disposed of at the Niagara Landfill in Niagara Falls, New York. Residual material inside the tanks was removed, placed in 55-gallon drums, and disposed at Cycle Chem Inc. in Lewisberry, Pennsylvania. Water or liquid encountered in the tanks and surrounding soils (approximately 5,500 gallons) was disposed of at General Environmental Management LLC in Cleveland, Ohio. Per NYSDEC approval, soils from around the tanks were managed at the Alltift Site, in accordance with the Alltift Design Report and Contract Documents (Parsons 2003a and 2003b).

Sets of five soil samples were collected from each of the three UST excavations, and analyzed for volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs), in accordance with the STARS guidance (NYSDEC, 1992). None of the samples exceeded the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 Soil Cleanup Objectives (NYSDEC, 1994) for the tested parameters.

4.6 Well Abandonment

Four of the existing eight groundwater monitoring wells (MW-1, MW-2, MW-3, MW-5) were located in the footprint of the proposed excavation. They were removed and properly disposed of during the completion of the excavation. These wells were completed to approximate depths between 10 and 12 feet below ground surface. Because of their shallow nature, the wells were successfully abandoned by excavation during the remedial effort. Per NYSDEC approval, well materials were managed at the Alltift Site, in accordance with the Alltift Design Report and Contract Documents. The remaining four wells (MW-4, 6, 7, and 8) will be properly abandoned following the evaluation of the results of the post-excavation groundwater sampling event.

4.7 Work Limits

The work limits for the IRM are shown on Figure 2. The limits included the area identified as being potentially impacted with the HON-COCs, as well as areas for the USTs on 666 Tifft

Street and the eastern end of 380 Hopkins Street. Appendix F contains the surveyors as-built drawings.

The limit and depth of the main excavation area, as shown on Figure 2, slightly differed from that proposed in the IRM work plan. During remedial activities, the work limits were expanded as needed (horizontally and vertically) based on visual observations, or when the results of post-excavation sampling exceeded the NYSDEC TAGM 4046 Recommended Soil Cleanup Objectives. Approximately 33,278 cubic yards of material was removed. Removal depths were variable, and are shown in Appendix F.

4.8 Post-excavation Sampling

Soil

Post-excavation samples results for HON-COCs along the sidewalls and bottom of the excavation were compared to the NYSDEC Recommended Soil Cleanup Objectives (TAGM 4046) to confirm the limits of work to be completed under this IRM. Figure 2 shows the post excavation sample locations, and Table 2 lists the chemical analytical results. Complete laboratory analytical results are provided in Appendix G. The electronic version of this report contains all laboratory quality control summary data.

Bottom samples were typically composited from sub samples. Following completion of the excavation, 4-chloroaniline slightly exceeded the TAGM value in samples BS-5A and BS-6. With NYSDEC's concurrence, the excavation did not proceed deeper. There do not appear to be any groundwater impacts from 4-chloroaniline in that vicinity based on previous results from well MW-4, and the slight soil exceedances were at depths of eight feet. Consequently, there are no complete exposure pathways. The field approval documenting NYSDEC concurrence with the bottom limits of excavation is provided in Appendix B.

Samples were also collected from the excavation sidewalls, and composited from sub-samples. With the exception of sample SW-9 (on the western side of the excavation) the final post-excavation samples were within the TAGM 4046 limits for sampled parameters. In SW-9, the chlorobenzene concentration exceeded TAGM. However, the excavation could not proceed further due to the presence of overhead utility lines and two subsurface 72-inch sewer lines, running north-south beneath Germania Avenue. Furthermore, SW-9 was collected outside the limits of the Site, as defined in the Order. The field approval documenting NYSDEC concurrence with the western limits of excavation in this vicinity is provided in Appendix B.

For the UST excavations outside the limits of the main excavation area, samples were collected and analyzed for the chemical parameters listed in the STARS Memo No. 1 (NYSDEC, 1992). The details regarding the USTs removal operations have been reported to NYSDEC in the May 2005 UST Removal Report (Appendix E).

Groundwater

In accordance with the IRM Work Plan, post-excavation groundwater samples were collected from remaining monitoring wells: MW-4, MW-6, MW-7, and MW-8. The samples

were collected on June 1, 2005, and analyzed for the HON-COCs by EPA Methods 8260 and 8270, and for lead by EPA Method 6010. Results from groundwater samples are listed in Table 3. All results were below the groundwater standard except chlorobenzene in well MW-8 which was 24 ug/L. As a result of the detection of chlorobenzene in MW-8, this well was re-sampled on July 13, 2005 and analyzed for chlorobenzene. The concentration from this second sampling event was 40 ug/L.

4.9 Material Disposition

Based on the analytical results from the September 2004 Investigation, the material within the delineated area was suitable for consolidation within the Alltift Site (Parsons, 2004b). At the time of the IRM, the Alltift Site was also in the remedial construction phase and had the capacity to manage the excavated materials under the planned landfill cover.

Materials excavated from the Tifft and Hopkins Site were properly managed on-site and transported to the Alltift Site by a licensed Part 364 (solid waste) transporter.

4.10 Site Restoration

Following excavation, the Site was restored in accordance with the IRM Work Plan. Restoration included backfilling the excavation with clean fill, and restoring the surface with geotextile overlain by crushed stone, in a manner compatible with its current use. Details of the restoration were presented in specifications within the IRM Work Plan. The only change from the specifications was the type of material used for the fence. Due to availability of materials, an aluminum fabric was used in place of a galvanized fabric. The backfill and fencing material submittals are contained in Appendix H.

4.11 Construction Survey

The limits of excavation as shown on Figure 2 were documented by a New York State licensed surveyor during excavation work. The final depths of excavation were recorded in the field during the excavation effort. Following site restoration, an additional survey was completed to confirm limits and grades. As-built drawings from the surveyor are provided in Appendix F.

5.0 SUMMARY

The IRM was successfully completed at the Tifft and Hopkins Site in June 2005. Approximately 33,278 cubic yards of material was removed from the site and consolidated into the Alltift Landfill. Post-excavation sampling confirmed that the horizontal and vertical limits of potential HON-COC impacted materials were generally reached and the final limits of the IRM were approved by NYSDEC in the field. No additional remediation or monitoring is recommended.

6.0 REFERENCES

NYSDEC, 1992. Spill Technology and Remediation Series (STARS) Memo No. 1, August 1992.

NYSDEC, 1994. TAGM 4046, Determination of Soil Cleanup Objectives and Cleanup Levels.

NYSDEC, 1998a. Immediate Investigation Work Assignment Report, November 1998.

NYSDEC, 1998b. December 14, 1998 letter from NYSDEC to Mr. David Paley, AlliedSignal. Re: Alltift Landfill – Site No. 9-15-054.

NYSDEC, 2002. Draft DER-10, Technical Guidance for Site Investigation and Remediation, December 2002.

Parsons, 2003a. Alltift Landfill/Ramco Steel Design Report, May 2003.

Parsons, 2003b. Alltift Landfill/Ramco Steel Contract Documents, June 2003.

Parsons, 2004a. Site Investigation Report, Tifft and Hopkins Site (NYSDEC #915131), April 2004.

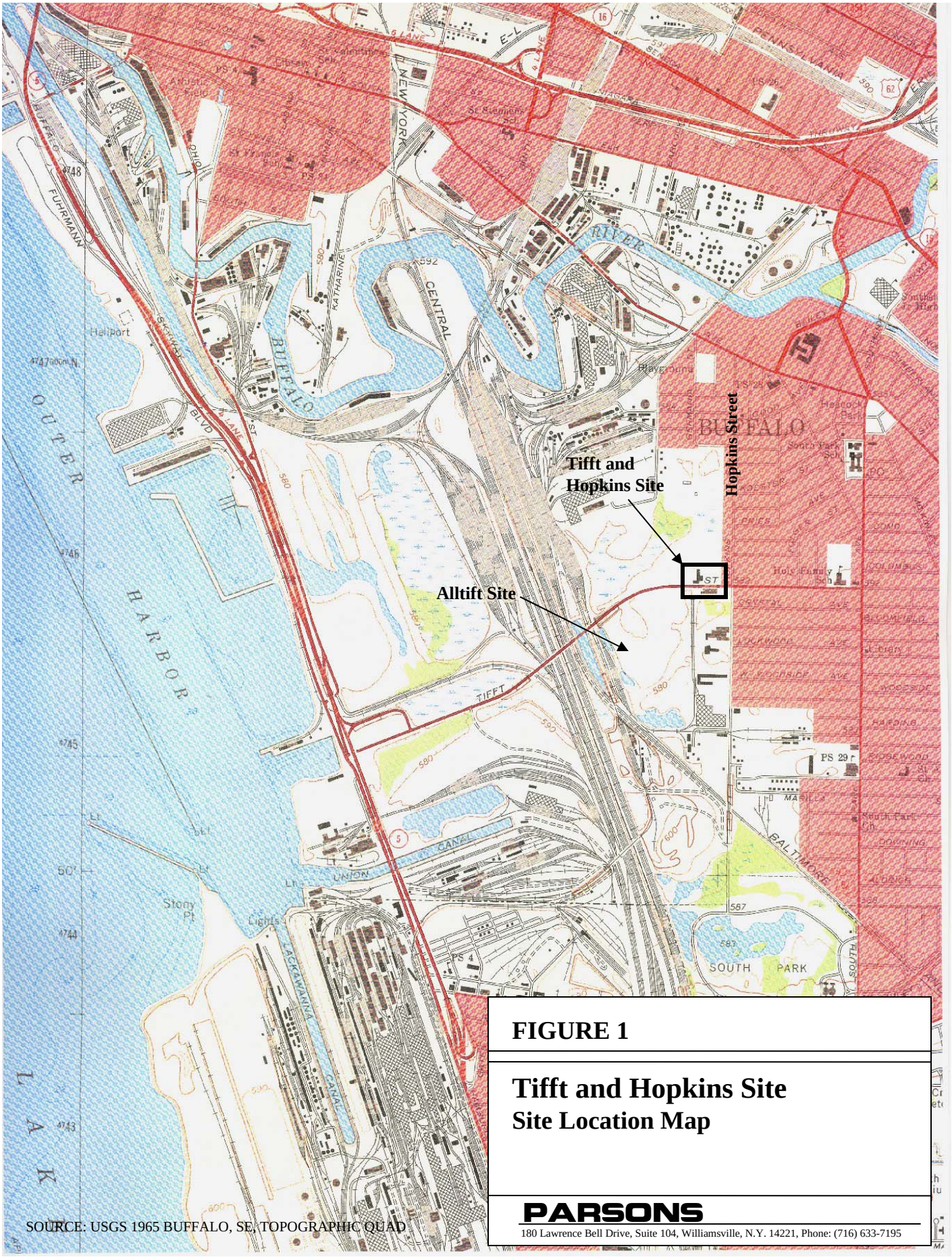
Parsons, 2004b. October 15, 2004 letter to NYSDEC, Investigation Report, Tifft and Hopkins Site, NYSDEC Site No. 915131.

GZA, 2005. Site Specific Health and Safety Plan, Tifft and Hopkins Site, Buffalo, New York, NYSDEC Site No. 9-15-131, February 2005.

Niagara Falls Water Board, 2005. Letter from Niagara Falls Water Board to Parsons dated January 10, 2005. Discharge Permit for Industrial Commercial User Permit ICU #48.

NYSDEC, 2005. NYSDEC Order on Consent, Index #B9-0674-04-08, Site #915131.

Parsons, 2005. Remedial Action Work Plan, January 2005.



SOURCE: USGS 1965 BUFFALO, SE, TOPOGRAPHIC QUAD

FIGURE 1

Tifft and Hopkins Site
Site Location Map

PARSONS
180 Lawrence Bell Drive, Suite 104, Williamsville, N.Y. 14221, Phone: (716) 633-7195

(40707\cad\site location map.ppt)

Property Line

MW-4

380 Tifft Street

Property Line

Property Line

SW-8A

SW-8B

SW-8C

Excavation Limit

SW-1A THRU 1F

SW-1

SW-8

SW-2A

EXCAVATED VOLUME = 32,288 CUBIC YARDS

EXCAVATED VOLUME = 290 CUBIC YARDS

BS-5/BS-5A

BS-4/BS-4A

BS-1

SW-2B

BS-7

SW-2D

MW-8

MW-5 (REMOVED)

MW-1 (REMOVED)

SW-9

Gate

FORMER LOCATION OF UST's

FRAME BLDG. (REMOVED)

BS-6

UST Excavation Limit

House

SW-2C

New Chain Link Fence

Property Line

SW-3

SW-7

(Formerly Roland Ave)

360 Tifft Street

Property Line

BS-3

BS-2

Property Line

Property Line

Property Line

Edge of Pavement

72" SAN.

SW-6

MW-3 (REMOVED)

Excavation Limit

SW-4

SW-5

Property Line

Building (Not Located)

Property Line

Face of Curb

Hopkins Street

Cermania Ave.

UST Excavation Limit

666 Tifft Street

EXCAVATED VOLUME = 350 CUBIC YARDS

EXCAVATED VOLUME = 350 CUBIC YARDS

UST Excavation Limit

MW-6

MW-7

Face of Curb

Tifft Street

NORTH

Notes:

This as – built survey drawing dated June 10, 2005, was prepared from an instrument survey, with field work completed on March 10, 2005.

This map of as–built survey was prepared for vertical depth verification. Vertical datum refers to: NGVD 1929

Horizontal Datum refers to: NYS Plane Coordinates, West Zone, NAD 1983. No Boundary determination are made or implied by this survey.

Survey by William J Tucker, II PLS #50369
Clear Creek Land Surveying, L.L.C.
P.O. Box 435, Springville, N.Y. 14141
Phone 716–592–5800 Fax 716–592–5566

LEGEND

- IP Found
- Set 1/2" Rebar w/cap
- Utility Pole
- Pole Anchor
- D Deeded
- M Measured
- Monitoring Well
- BS-1-B Sample location

60 30 0 60 120

SCALE: 1"=60'

FIGURE 2

TIFFT AND HOPKINS SITE

EXCAVATION LIMITS AND SAMPLE LOCATION PLAN

PARSONS
180 LAWRENCE BELL DRIVE, SUITE 104
WILLIAMSVILLE, NEW YORK 14221
716–633–7074

P:\440707 (Tifft&Hopkins)\CAD\40707F26.dwg, 09/28/05 at 19:15, MAB, 1=1
XREFs: X40707F01.DWG

TABLE 1

TIFFT AND HOPKINS SITE
Analytical Data
Construction Water Sample Results

	conwater-1			conwater-2		
Flow	10,000 gal		10,000	11,000	gal	11,000
Compound	mg/L	lbs/day	Limits (lbs/day)	mg/L	lbs/day	Limits (lbs/day)
Dichlorobenzene	0.038	0.003	0.05	0.034	0.003	0.05
Endosulfan	0.000	0.000	0.0005	0.000	0.000	0.0005
Heptachlor Epoxide	0.000	0.000	0.0005	0.000	0.000	0.0005
Aluminum	0.540	0.045	26	0.250	0.023	26
Chromium	0.012	0.001	0.03	0.000	0.000	0.03
Copper	0.000	0.000	0.02	0.000	0.000	0.02
Lead	0.076	0.006	0.2	0.017	0.002	0.2
Mercury	0.000	0.000	0.0005	0.000	0.000	0.0005
Nickel	0.000	0.000	0.006	0.000	0.000	0.006
Cadmium	0.012	0.001	0.001	0.000	0.000	0.001
Zinc	0.035	0.003	0.25	0.087	0.008	0.25
Cyanide	0.000	0.000	0.075	0.000	0.000	0.075
Chlorobenzene	0.190	0.016	0.65	0.061	0.006	0.65
Chloroanaline	1.603	0.134	1.83	0.021	0.002	1.83
Benzene	0.000	0.000	0.03	0.000	0.000	0.03
Toluene	0.000	0.000	0.015	0.000	0.000	0.015
Naphthalene	9.500	0.792	0.84	0.000	0.000	0.84
Antimony	0.025	0.002	0.04	0.000	0.000	0.04
Arsenic	0.000	0.000	0.006	0.000	0.000	0.006
Barium	0.160	0.013	0.085	0.053	0.005	0.085

TABLE 2

Tifft and Hopkins Site
Analytical Data
Excavation Bottom
Confirmatory Sample Results

Sample ID:		NYSDEC TAGM	BS-1	BS-2	BS-3	BS-4*	BS-4a	BS-5*	BS-5a	BS-6	BS-7
Lab Sample ID:		#4046	A5196201	A5236501	A5251401	A5273601	A5287901	A5278001	A5294103	A5379201	A5387601
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampled:			3/4/05	3/16/05	3/18/05	3/25/05	3/30/05	3/28/05	3/31/05	4/19/05	4/20/05
	units										
Volatile Compounds											
Chlorobenzene	ug/kg	1700	14	1600 D	840 DJ	120	2 BJ	2800 D	35	16	ND
Semi-Volatile Compounds											
4-Chloroanaline	ug/kg	220	ND	ND	ND	1000	120 J	420	310 J	310 J	ND
1,2-Dichlorobenzene	ug/kg	7900	ND	15 J	ND	2 J	ND	14	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	1600	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ug/kg	200	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/kg	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	mg/Kg		15.5	11.9	11	10	8.5	16.9	7.4	9.1	8.5

ND: Compound was analyzed for but not detected at or above the reporting limit.
NA: Compound was not analyzed for.
J: Indicates an estimated value.
D: Compounds identified in an analysis at the secondary dilution factor.
NYSDEC TAGM #4046: Recommended Soil Cleanup Objectives.
*At least one chemical exceeded the TAGM value, and further excavation and sampling was conducted.
: exceeds TAGM 4046 Guidance value

TABLE 2

Tifft and Hopkins Site
Analytical Data
Excavation Sidewall
Confirmatory Sample Results

Sample ID:		NYSDEC TAGM	SW-1*	SW-1a	SW-1b	SW-1c	SW-1d	SW-1e	SW-1f
Lab Sample ID:		#4046	A5181901	A5281902	A5281903	A5281904	A5281905	A5281906	A5281907
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampled:			3/1/05	3/29/05	3/29/05	3/29/05	3/29/05	3/29/05	3/29/05
	units								
Volatile Compounds									
Chlorobenzene	ug/kg	1700	1300	6	190 B	99 B	3 BJ	ND	ND
Semi-Volatile Compounds									
4-Chloroanaline	ug/kg	220	2200 J	ND	220 J	ND	ND	ND	ND
1,2-Dichlorobenzene	ug/kg	7900	820 J	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	1600	230 J	ND	ND	ND	ND	ND	ND
Nitrobenzene	ug/kg	200	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/kg	100	290 J	ND	ND	ND	ND	ND	ND
Lead	mg/Kg		256	192	10.6	47.6	239	263	46.1

ND: Compound was analyzed for but not detected at or above the reporting limit.
NA: Compound was not analyzed for.
J: Indicates an estimated value.
D: Compounds identified in an analysis at the secondary dilution factor.
NYSDEC TAGM #4046: Recommended Soil Cleanup Objectives.
*At least one chemical exceeded the TAGM value, and further excavation and sampling was conducted.
: exceeds TAGM 4046 Guidance value

TABLE 2

Tifft and Hopkins Site
Analytical Data
Excavation Sidewall
Confirmatory Sample Results

Sample ID:		NYSDEC TAGM	SW-2*	SW-2a	SW-2b*	SW-2c	SW-2d	SW-3	SW-4
Lab Sample ID:		#4046	A5188301	A5287903	A5287902	A5287904	A5387602	A5227601	A5227602
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampled:			3/2/05	3/20/05	3/30/05	3/30/05	4/20/05	3/14/05	3/14/05
	units								
Volatile Compounds									
Chlorobenzene	ug/kg	1700	9200	25 B	8900	2 BJ	150	19	280 D
Semi-Volatile Compounds									
4-Chloroanaline	ug/kg	220	710 J	ND	2800	ND	ND	ND	100 J
1,2-Dichlorobenzene	ug/kg	7900	1000	2 J	20000	2 J	92	ND	56
1,3-Dichlorobenzene	ug/kg	1600	ND	ND	290 J	ND	ND	ND	4 J
Nitrobenzene	ug/kg	200	ND	ND	1300	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/kg	100	ND	ND	1900	ND	ND	ND	5 J
Lead	mg/Kg		43.1	15.6	304	158	13.4	20.7	14.1

ND: Compound was analyzed for but not detected at or above the reporting limit.
NA: Compound was not analyzed for.
J: Indicates an estimated value.
D: Compounds identified in an analysis at the secondary dilution factor.
NYSDEC TAGM #4046: Recommended Soil Cleanup Objectives.
*At least one chemical exceeded the TAGM value, and further excavation and sampling was conducted.
: exceeds TAGM 4046 Guidance value

TABLE 2

Tifft and Hopkins Site
Analytical Data
Excavation Sidewall
Confirmatory Sample Results

Sample ID:		NYSDEC TAGM	SW-5	SW-6	SW-7	SW-8*	SW-8a	SW-8b*	SW-8c	SW-9
Lab Sample ID:		#4046	A5230701	A5230702	A5256301	A5261501	A5294101	A5294102	A5379202	A5281901
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampled:			3/15/05	3/15/05	3/22/05	3/23/05	3/31/05	3/31/05	4/19/05	3/29/05
	units									
Volatile Compounds										
Chlorobenzene	ug/kg	1700	67	730 D	11	11	42	2300 D	ND	4100
Semi-Volatile Compounds										
4-Chloroanaline	ug/kg	220	ND	ND	ND	1000 J	ND	99 J	ND	640
1,2-Dichlorobenzene	ug/kg	7900	2 J	79	14	3 J	1 J	ND	ND	23
1,3-Dichlorobenzene	ug/kg	1600	2 J	20	ND	ND	1 J	ND	ND	3 J
Nitrobenzene	ug/kg	200	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/kg	100	ND	ND	ND	ND	ND	ND	ND	ND
Lead	mg/Kg		21.7	15.2	40.7	276	30	11.7	218	24

ND: Compound was analyzed for but not detected at or above the reporting limit.
NA: Compound was not analyzed for.
J: Indicates an estimated value.
D: Compounds identified in an analysis at the secondary dilution factor.
NYSDEC TAGM #4046: Recommended Soil Cleanup Objectives.
*At least one chemical exceeded the TAGM value, and further excavation and sampling was conducted.
: exceeds TAGM 4046 Guidance value

TABLE 3

Tifft and Hopkins Site
Analytical Data
Groundwater Sample Results

Sample ID:		NYSDEC	MW-4	MW-6	MW-7	MW-8	MW-8
Lab Sample ID:		Class GA	A5566701	A5566702	A5566703	A5566704	A5733501
Matrix:		Groundwater	Water	Water	Water	Water	Water
Sampled:		Standards	6/1/05	6/1/05	6/1/05	6/1/05	7/13/05
	units					1st sample	2nd sample
Volatile Compounds							
1,2-Dichlorobenzene	µg/L	3	ND	ND	ND	ND	NA
1,3-Dichlorobenzene	µg/L	3	ND	ND	ND	ND	NA
Chlorobenzene	µg/L	5	ND	ND	ND	24 J	40
1,2,4-Trichlorobenzene	µg/L	5	ND	ND	ND	ND	NA
Semi-Volatile Compounds							
4-Chloroanaline	µg/L	5	ND	ND	ND	5 J	NA
Nitrobenzene	µg/L	0.4	ND	ND	ND	ND	NA
Metals							
Lead	µg/L	25	8	ND	ND	ND	NA

ND: Compounds was analyzed for but not detected at or above the reporting limit

NA: Compounds was not analyzed for

J: Indicates an estimated value

D: Compounds identified in an analysis at the secondary dilution factor

Gray shading indicates result was higher than groundwater standard

NYSDEC Class GA Groundwater Standard: New York State Department of Environmental Conservation, Division of Water Technical and Operational Guidance Series (TOGS 1.1.1)

APPENDIX A

PHOTOGRAPHIC LOG

Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 2/22/2005 Project Number: 440707
Description: Remains of building at west end of 380 Hopkins St. prior to demolition and removal.



Date: 2/22/2005 Project Number: 440707
Description: Western boundary of the excavation area, looking north. Note the location of overhead and marked underground utilities.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 2/23/2005 Project Number: 440707
Description: Looking southwest from the clay stockpiled for the clay barrier. Note location of the fueling island located at west end of 380 Hopkins, and the debris from the building removal.



Date: 2/23/2005 Project Number: 440707
Description: Looking east from top of clay stockpile, during clearing and grubbing activity.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 3/1/2005 Project Number: 440707
Description: Water infiltration into north side of excavation prior to installing clay barrier.



Date: 3/2/2005 Project Number: 440707
Description: Scaffolding erected, used to install plastic bed liners in trucks hauling material to the Alltift Site.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 3/2/2005 Project Number: 440707
Description: Overview of the Site from northeast corner, after grubbing, and prior to excavation.



Date: 3/3/2005 Project Number: 440707
Description: Completed eastern half of excavation, looking south.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 3/8/2005 Project Number: 440707
Description: Completed eastern half of excavation. Looking from east side of excavation.



Date: 3/14/2005 Project Number: 440707
Description: Northeast corner of excavation, backfilled with clean unclassified fill.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 3/14/2005 Project Number: 440707
Description: Example of clean edge of excavation. Section was located along the southern excavation margin.



Date: 3/14/2005 Project Number: 440707
Description: Truck decontamination area at the Alltift Site.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 3/14/2005 Project Number: 440707
Description: Completed site excavation, backfilled with unclassified fill, and ready for geotextile and gravel. Looking to the west.



Date: 3/19/2005 Project Number: 440707
Description: Southern boundary of excavation prior to filling, looking to the west.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 3/19/2005 Project Number: 440707
Description: Southern boundary of excavation after backfilling with clay. Looking to the west.



Date: 3/19/2005 Project Number: 440707
Description: Southern boundary of excavation after filling with clay. Looking to the east.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 3/19/2005 Project Number: 440707
Description: Excavation of central part of the Site.



Date: 3/19/2005 Project Number: 440707
Description: Backfilling of excavation using unclassified fill materials.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 4/13/2005 Project Number: 440707
Description: Removal of USTs located in the west end of 380 Hopkins St. Tank partially uncovered, and being scrapped for removal.



Date: 4/13/2005 Project Number: 440707
Description: Removal of tanks on west end of 380 Hopkins, and removal of impacted materials.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 4/14/2005 Project Number: 440707
Description: Uncovered northeast UST, located on 666 Tifft St.



Date: 4/14/2005 Project Number: 440707
Description: Removal of the northeast UST, located at 666 Tifft St.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 4/15/2005 Project Number: 440707
Description: Tank pit following removal of UST and associated piping.



Date: 4/19/2005 Project Number: 440707
Description: Over-cut of northern excavation boundary, looking to the west.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 4/19/2005 Project Number: 440707
Description: Extension of the excavation to the east.



Date: 4/19/2005 Project Number: 440707
Description: Extension of excavation to the east.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 4/20/2005 Project Number: 440707
Description: Material removal from the eastern sidewall during over-excavation.



Date: 4/20/2005 Project Number: 440707
Description: Completed over-excavation to the east, to remove additional materials.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 4/20/2005 Project Number: 440707
Description: Crushed tanks staged for removal and disposal in a landfill.



Date: 4/20/2005 Project Number: 440707
Description: Eastern sidewall of over-excavated eastern area.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 4/22/2005 Project Number: 440707
Description: Laying out geotextile over unclassified fill, and placing gravel.



Date: 6/1/2005 Project Number: 440707
Description: Site completed with gravel top coat, and fencing installed along property lines. Looking from the northeast corner.



Photo Log for the 2005 IRM
Tifft and Hopkins Site
Buffalo, New York

Date: 6/1/2005 Project Number: 440707

Description: Completed Site, showing location of tanks from east end of 380 Hopkins St. Looking east.



APPENDIX B

FIELD CHANGES AND APPROVALS

TIFFT AND HOPKINS SITE
BUFFALO, NEW YORK

FIELD CHANGE FORM # 001

Project Number: 440707	Date:3/22/2005
Engineer: Parsons	
Remedial Action Contractor: Tug Hill	

You are hereby authorized and instructed to complete the following modifications to the approved Final Design:
Replace Table 02421-1 in Section 02421 – Geotextiles with the following:

TABLE 02421-1
MINIMUM ACCEPTANCE CRITERIA GEOTEXTILE

Test Description	Test Method	Criteria
Reinforcement		
Mass per unit area	ASTM D-3776	>6.5 oz/SY
Puncture resistance	ASTM D-4833	>125 lb.
Grab strength	ASTM D-4632	>315 lb.
Tensile strength	ASTM D-4595	>175 lb./in.
Burst strength	ASTM D-3786	>650 psi

APPROVED

APPROVALS:

Parsons Representative

Name: Jeffrey Poulsen	Date:3/22/05
Signature: Jeffrey Poulsen	

NYSDEC Representative

Name: Maurice F. Moore	Date:
Signature:	

File 440707 17p)

TIFFT AND HOPKINS SITE
BUFFALO, NEW YORK

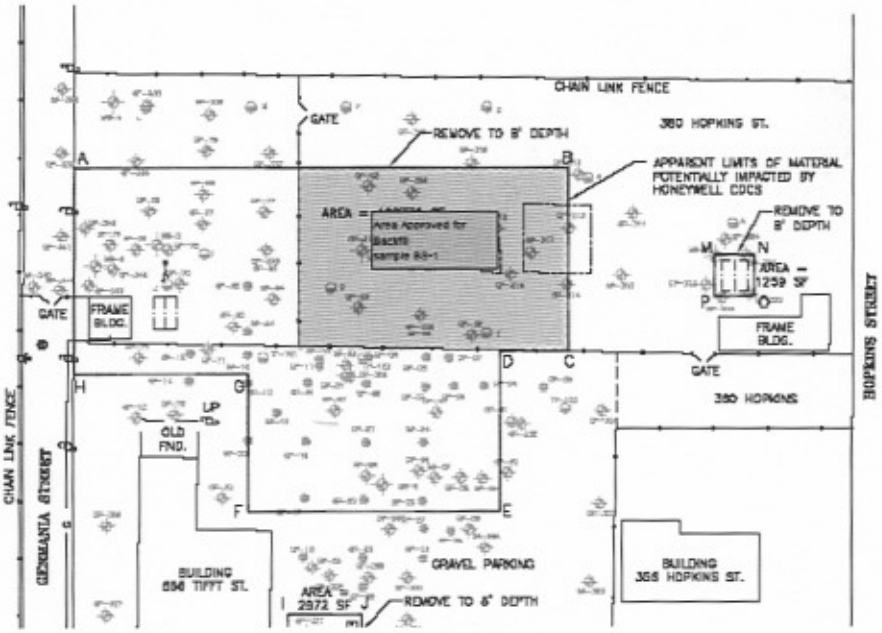
File 440707 #1707

FIELD APPROVAL FORM # 001

Project Number: 440707	Date: 3/8/2005
Engineer: Parsons	
Remedial Action Contractor: Tug Hill	

You are hereby authorized and instructed to complete the following approvals to the Final Design:

Based on the analytical results from samples BS-1, the area indicated on the attached figure is approved for backfilling.



APPROVALS:

Parsons Representative

Name: Jeffrey Poulsen	Date:3/9/2005
Signature:	

NYSDEC Representative

Name: Maurice Moore	Date: 3/5/05
Signature:	

File 440707 p)

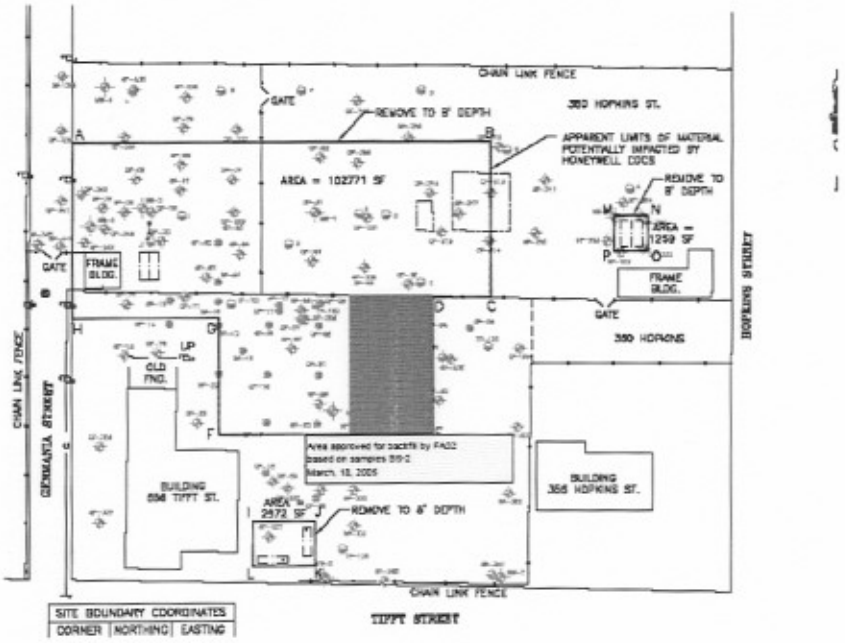
TIFFT AND HOPKINS SITE
BUFFALO, NEW YORK

F:6 440707 17.b)

FIELD APPROVAL FORM # 002

Project Number: 440707	Date: 3/18/2005
Engineer: Parsons	
Remedial Action Contractor: Tug Hill	

Based on the analytical results from samples BS-2 (attached), the area indicated on the attached figure is approved for backfilling.



APPROVALS:

Parsons Representative

Name: Jeffrey Poulsen	Date:3/18/2005
Signature: Jeffrey Poulsen	

NYSDEC Representative

Name:	Date:
Signature: Maurice F. Moore	

File 440707 p)

Client ID		BS-2							
Job No	Lab ID	A05-2365	A5236501						
Sample Date		03/16/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	410	NA		NA		NA	
Nitrobenzene	UG/KG	ND	410	NA		NA		NA	
----------IS/SURROGATE(S)----------									
1,4-Dichlorobenzene-D4	%	113	50-200	NA		NA		NA	
Naphthalene-D8	%	123	50-200	NA		NA		NA	
Acenaphthene-D10	%	124	50-200	NA		NA		NA	
Phenanthrene-D10	%	137	50-200	NA		NA		NA	
Chrysene-D12	%	174	50-200	NA		NA		NA	
Perylene-D12	%	99	50-200	NA		NA		NA	
Nitrobenzene-D5	%	73	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	80	36-138	NA		NA		NA	
p-Terphenyl-d14	%	84	41-167	NA		NA		NA	
Phenol-D5	%	73	34-120	NA		NA		NA	
2-Fluorophenol	%	66	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	91	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

03/18/2005 12:22 FAX 7166017001 SEVERN TRENT LAB. 002/004

Date: 03/18/2005
Time: 12:13:46

HONEYWELL PROJECTS
Tifft and Hopkins
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Rupt: ANO326

Client ID		BS-2		BS-2					
Job No	Lab ID	A05-2365	A5236501	A05-2365	A5236501DL				
Sample Date		03/16/2005		03/16/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	15 J	30	ND	770	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	30	ND	770	NA		NA	
Chlorobenzene	UG/KG	1900 E	30	1600 D	770	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	30	ND	770	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	84	50-200	92	50-200	NA		NA	
1,4-Difluorobenzene	%	84	50-200	92	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	76	50-200	81	50-200	NA		NA	
Toluene-D8	%	92	71-125	100	71-125	NA		NA	
p-Bromofluorobenzene	%	84	68-124	88	68-124	NA		NA	
1,2-Dichloroethane-D4	%	88	61-136	96	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

03/16/2005 12:22 FAX 7166917001 SEVERN TRENT LAB. 002/004

Date: 03/18/2005
Time: 12:14:03

HONEYWELL PROJECTS
Tifft and Hopkins
TOTAL METALS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	BS-2 A05-2365 03/16/2005	A5236501						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	11.9	1.3	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

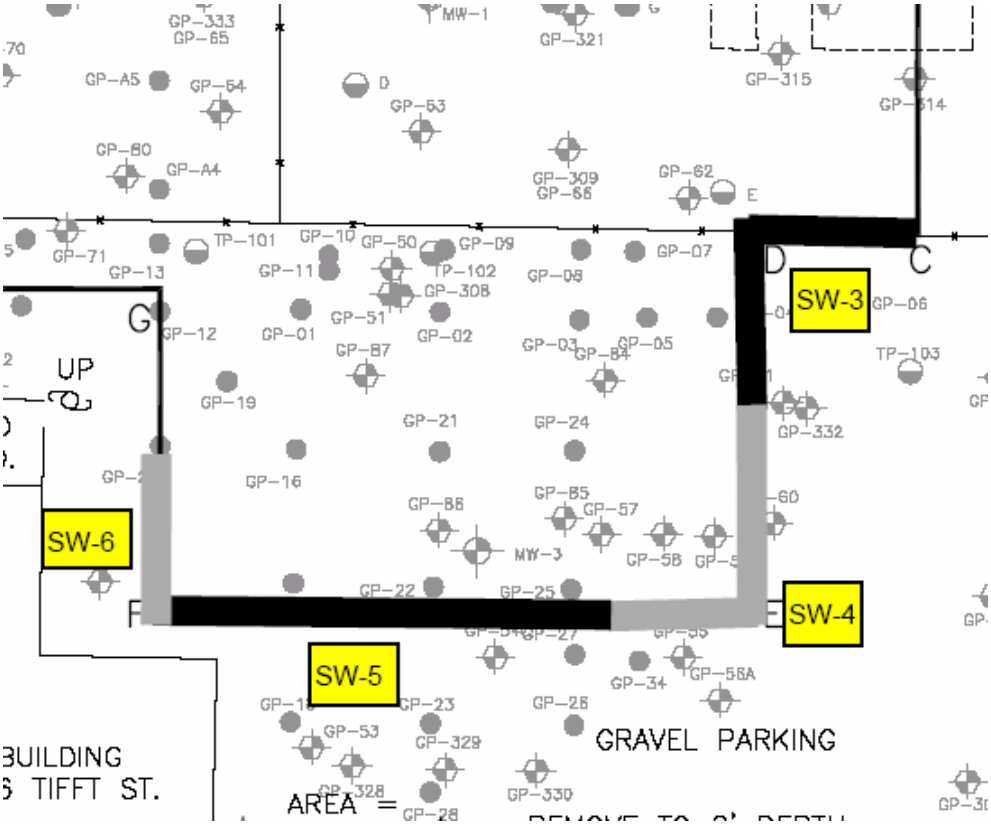
03/18/2005 12:22 FAX 7166917991 SEVERN TRENT LAB. 004/004

TIFFT AND HOPKINS SITE
BUFFALO, NEW YORK

FIELD APPROVAL FORM # 003

Project Number: 440707	Date: 3/23/2005
Engineer: Parsons	
Remedial Action Contractor: Tug Hill	

Based on the analytical results (attached) from samples SW-3, SW-4, SW-5, and SW-6, the areas represented on the below figure represent the approved horizontal limits for the IRM and are approved for backfilling.



APPROVALS:

Parsons Representative

Name: Jeffrey Poulsen	Date:3/23/2005
Signature:	

NYSDEC Representative

Name: Maurice F. Moore	Date: 3/24/2005
Signature:	

Client ID		SW-3		SW-4		SW-4			
Job No / Lab ID		A05-2276	A5227601	A05-2276	A5227602	A05-2276	A5227602DL		
Sample Date		03/14/2005		03/14/2005		03/14/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	7	56	6	120 D	29	NA	
1,3-Dichlorobenzene	UG/KG	ND	7	4 J	6	10 DJ	29	NA	
Chlorobenzene	UG/KG	19	7	250 E	6	280 D	29	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	7	5 J	6	20 DJ	29	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	81	50-200	82	50-200	103	50-200	NA	
1,4-Difluorobenzene	%	81	50-200	82	50-200	102	50-200	NA	
1,4-Dichlorobenzene-D4	%	72	50-200	75	50-200	96	50-200	NA	
Toluene-D8	%	98	71-125	99	71-125	99	71-125	NA	
p-Bromofluorobenzene	%	86	68-124	85	68-124	89	68-124	NA	
1,2-Dichloroethane-D4	%	81	61-136	79	61-136	90	61-136	NA	

NA = Not Applicable ND = Not Detected

03/17/2005 11:27 FAX 7166917991 SEVERN TRENT LAB. 002

Client ID Job No Lab ID Sample Date		SW-3 A05-2276 A5227601 03/14/2005		SW-4 A05-2276 A5227602 03/14/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	460	100 J	400	NA		NA	
Nitrobenzene	UG/KG	ND	460	ND	400	NA		NA	
----(S/SURROGATE(S)----									
1,4-Dichlorobenzene-D4	%	93	50-200	97	50-200	NA		NA	
Naphthalene-D8	%	98	50-200	102	50-200	NA		NA	
Acenaphthene-D10	%	98	50-200	100	50-200	NA		NA	
Phenanthrene-D10	%	98	50-200	97	50-200	NA		NA	
Chrysene-D12	%	108	50-200	106	50-200	NA		NA	
Perylene-D12	%	123	50-200	129	50-200	NA		NA	
Nitrobenzene-D5	%	78	30-127	62	30-127	NA		NA	
2-Fluorobiphenyl	%	93	36-138	82	36-138	NA		NA	
p-Terphenyl-d14	%	92	41-167	79	41-167	NA		NA	
Phenol-D5	%	76	34-120	61	34-120	NA		NA	
2-Fluorophenol	%	66	26-120	53	26-120	NA		NA	
2,4,6-Tribromophenol	%	102	42-140	91	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

03/17/2005 11:27 FAX 7166917901 SEVERN TRENT LAB. 003

Client ID		SW-3		SW-4					
Job No	Lab ID	A05-2276	A5227601	A05-2276	A5227602				
Sample Date		03/14/2005		03/14/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	20.7	1.6	14.1	1.2	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

03/17/2005 11:27 FAX 7166917991 SEVERN TRENT LAB. 004

Client ID Job No Sample Date	Lab ID	SW-5 A05-2307 03/15/2005	A5230701	SW-6 A05-2307 03/15/2005	A5230702				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	420	ND	360	NA		NA	
Nitrobenzene	UG/KG	ND	420	ND	360	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	100	50-200	112	50-200	NA		NA	
Naphthalene-D8	%	102	50-200	114	50-200	NA		NA	
Acenaphthene-D10	%	101	50-200	114	50-200	NA		NA	
Phenanthrene-D10	%	103	50-200	116	50-200	NA		NA	
Chrysene-D12	%	102	50-200	121	50-200	NA		NA	
Perylene-D12	%	103	50-200	116	50-200	NA		NA	
Nitrobenzene-D5	%	74	30-127	72	30-127	NA		NA	
2-Fluorobiphenyl	%	83	36-138	80	36-138	NA		NA	
p-Terphenyl-d14	%	83	41-167	74	41-167	NA		NA	
Phenol-D5	%	72	34-120	70	34-120	NA		NA	
2-Fluorophenol	%	67	26-120	65	26-120	NA		NA	
2,4,6-Tribromophenol	%	89	42-140	87	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

03/17/2005 14:42 FAX 7166917991 SEVERN TRENT LAB. 003

Date: 03/17/2005
Time: 14:07:41

HONEYWELL PROJECTS
Tifft and Hopkins
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Rept: AN0326

Client ID		SW-5		SW-6		SW-6			
Job No	Lab ID	A05-2307	A5230701	A05-2307	A5230702	A05-2307	A5230702DL		
Sample Date		03/15/2005		03/15/2005		03/15/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	2 J	6	79	6	95 D	31	NA	
1,3-Dichlorobenzene	UG/KG	2 J	6	20	6	26 DJ	31	NA	
Chlorobenzene	UG/KG	67	6	610 E	6	730 D	31	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	ND	31	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	81	50-200	81	50-200	103	50-200	NA	
1,4-Difluorobenzene	%	82	50-200	78	50-200	101	50-200	NA	
1,4-Dichlorobenzene-D4	%	74	50-200	74	50-200	90	50-200	NA	
Toluene-D8	%	100	71-125	97	71-125	97	71-125	NA	
p-Bromofluorobenzene	%	87	68-124	87	68-124	85	68-124	NA	
1,2-Dichloroethane-D4	%	89	61-136	83	61-136	90	61-136	NA	

NA = Not Applicable ND = Not Detected

SIL Buffalo

03/17/2005 14:42 FAX 7166917991 SEVERN TRENT LAB. 002

Date: 03/17/2005
Time: 14:37:57

HONEYWELL PROJECTS
Tifft and Hopkins
TOTAL METALS

Rept: AN0326

Client ID		SW-5		SW-6					
Job No	Lab ID	A05-2307	A5230701	A05-2307	A5230702				
Sample Date		03/15/2005		03/15/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	21.7	1.3	15.2	1.1	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

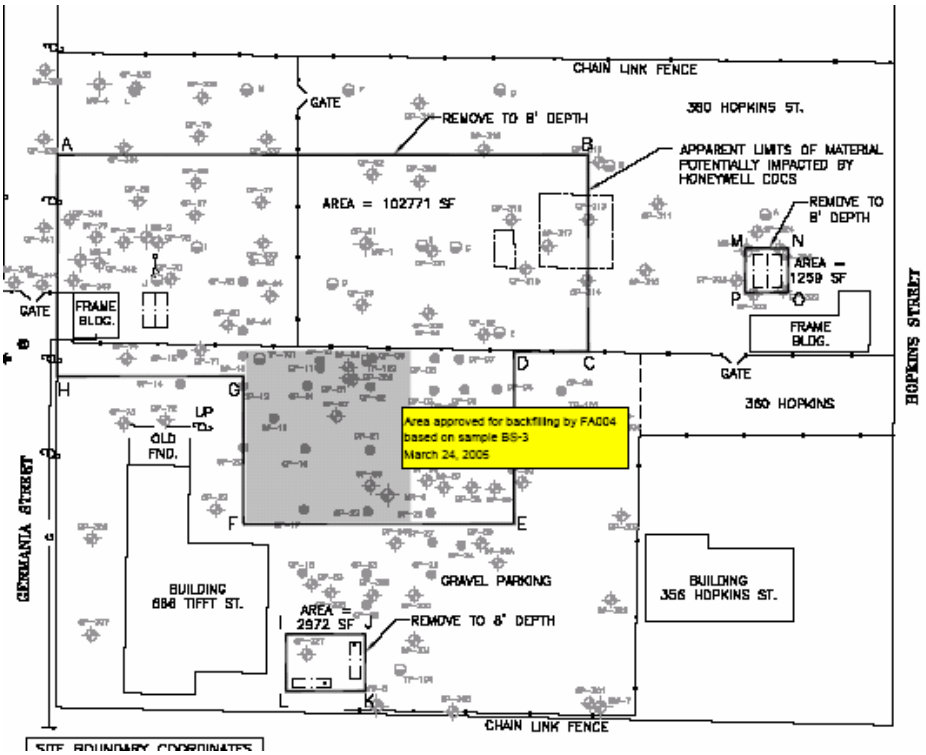
03/17/2005 14:42 FAX 7166917901 SEVERN TRENT LAB. 004

TIFFT AND HOPKINS SITE
BUFFALO, NEW YORK

FIELD APPROVAL FORM # 004

Project Number: 440707	Date: 3/24/2005
Engineer: Parsons	
Remedial Action Contractor: Tug Hill	

Based on the analytical results from samples BS-3 (attached), the area indicated on the attached figure is approved for backfilling.



APPROVALS:

Parsons Representative

Name: Jeffrey Poulsen	Date:3/24/2005
Signature: Jeffrey Poulsen	

NYSDEC Representative

Name: Maurice F. Moore	Date: 3/28/2005
Signature:	APPROVED

File 440707 17b)

Client ID Job No Lab ID Sample Date		BS-3 A05-2514 A5251401 03/21/2005		BS-3 DL A05-2514 A5251401DL 03/21/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	13	ND	1500	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	13	ND	1500	NA		NA	
Chlorobenzene	UG/KG	320 E	13	840 DJ	1500	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	13	ND	1500	NA		NA	
IS/SURROGATE(S)									
Bromochloromethane	%	86	50-200	90	50-200	NA		NA	
1,4-Difluorobenzene	%	85	50-200	96	50-200	NA		NA	
Chlorobenzene-D5	%	88	50-200	87	50-200	NA		NA	
p-Bromofluorobenzene	%	95	59-113	95	59-113	NA		NA	
1,2-Dichloroethane-D4	%	101	70-121	102	70-121	NA		NA	
Toluene-D8	%	97	84-138	92	84-138	NA		NA	

NA = Not Applicable ND = Not Detected

03/24/2005 16:30 FAX 7166917991 SEVERN TRENT LAB. 002

Client ID		BS-3							
Job No	Lab ID	A05-2514	A5251401						
Sample Date		03/21/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	390	NA		NA		NA	
Nitrobenzene	UG/KG	ND	390	NA		NA		NA	
----IS/SURROGATE(S)----									
1,4-Dichlorobenzene-D4	%	110	50-200	NA		NA		NA	
Naphthalene-D8	%	114	50-200	NA		NA		NA	
Acenaphthene-D10	%	109	50-200	NA		NA		NA	
Phenanthrene-D10	%	105	50-200	NA		NA		NA	
Chrysene-D12	%	111	50-200	NA		NA		NA	
Perylene-D12	%	117	50-200	NA		NA		NA	
Nitrobenzene-D5	%	67	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	78	36-138	NA		NA		NA	
p-Terphenyl-d14	%	88	41-167	NA		NA		NA	
Phenol-D5	%	62	34-120	NA		NA		NA	
2-Fluorophenol	%	56	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	93	42-140	NA		NA		NA	

03/24/2005 16:30 FAX 7186917991 SEVERN TRENT LAB. ☑003

Date: 03/24/2005
Time: 16:15:49

HONEYWELL PROJECTS
Tifft and Hopkins
TOTAL METALS

Rept: AN0326

Client ID		BS-3							
Job No	Lab ID	A05-2514	A5251401						
Sample Date		03/21/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	11.0	1.5	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

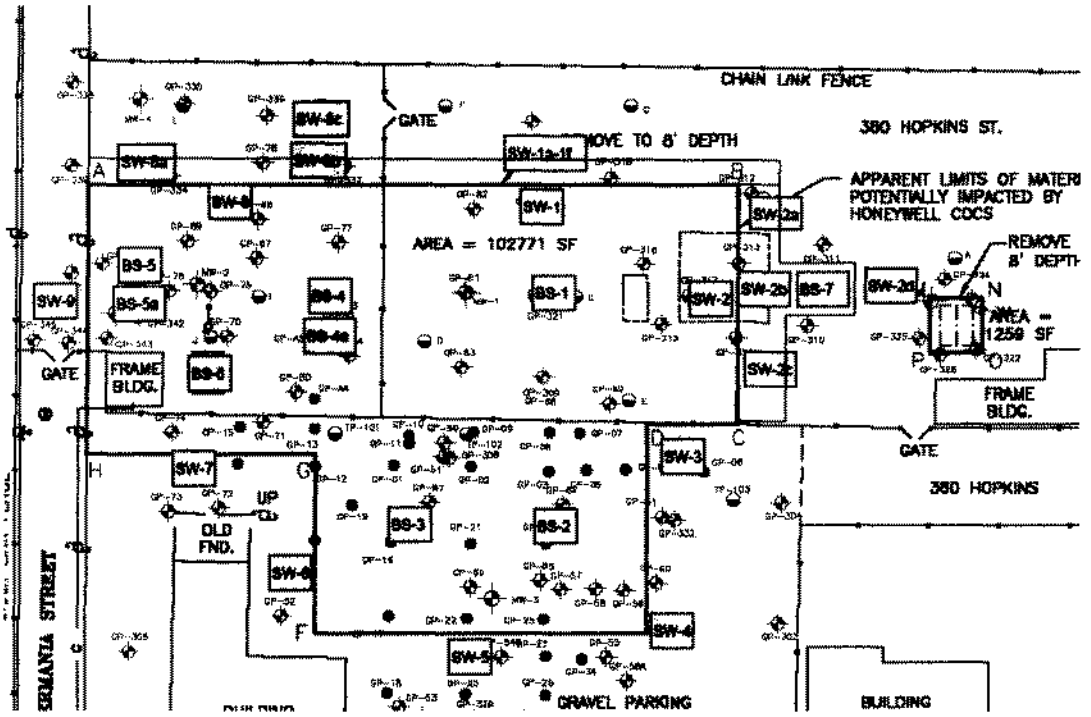
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TIFFT AND HOPKINS SITE
BUFFALO, NEW YORK

FIELD APPROVAL FORM # 005

Project Number: 440707	Date: 4/26/2005
Engineer: Parsons	
Remedial Action Contractor: Tug Hill	

Based on analytical results from all of the confirmatory samples (attached) the area below is approved for backfilling without additional excavation.



APPROVALS:

Parsons Representative

Name: Jeffrey Poulsen	Date:4/26/2005
Signature: Jeffrey Poulsen	Jeffrey Poulsen

NYSDEC Representative

Name: MAURICE F MOORE	Date: 8/25/05
Signature:	

TABLE 1

Tifft and Hopkins Site
Analytical Data
Confirmatory Sample Results

Sample ID:		NYSDEC TAGM #4046	SW-1	SW-2	BS-1	SW-3	SW-4	SW-5	SW-6	BS-2
Lab Sample ID:										
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampled:			3/1/05	3/2/05	3/4/05	3/14/05	3/14/05	3/15/05	3/15/05	3/16/05
	units									
Volatile Compounds										
Chlorobenzene	ug/kg	1700	1300		14	19	280 D	67	730 D	1600 D
Semi-Volatile Compounds										
4-Chloroaniline	ug/kg	220			ND	ND	100 J	ND	ND	ND
1,2-Dichlorobenzene	ug/kg	7900	820 J	1000	ND	ND	56	2 J	79	15 J
1,3-Dichlorobenzene	ug/kg	1600	230 J	ND	ND	ND	4 J	2 J	20	ND
Nitrobenzene	ug/kg	200	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/kg	100		ND	ND	ND	5 J	ND	ND	ND
Lead	mg/Kg		256	43.1	15.5	20.7	14.1	21.7	15.2	11.9

ND: Compounds was analyzed for but not detected at or above the reporting limit
NA: Compounds was not analyzed for
J: Indicates an estimated value
D: Compounds identified in an analysis at the secondary dilution factor
NYSDEC TAGM #4046: New York State Department of Environmental Conservation, Technical and Administrative Guidance Memorandum #4046, Recommended Soil Cleanup Objectives
: compound concentration exceeds TAGM #4046 Recommended Soil Cleanup Standards

TABLE 1

Tifft and Hopkins Site
Analytical Data
Confirmatory Sample Results

Sample ID:		NYSDEC TAGM #4046	BS-3	SW-7	SW-8	BS-4	BS-5	SW-9	SW-1a	SW-1b	SW-1c	SW-1d	SW-1e	SW-1f
Lab Sample ID:														
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampled:			3/18/05	3/22/05	3/23/05	3/25/05	3/28/05	3/29/05	3/29/05	3/29/05	3/29/05	3/29/05	3/29/05	3/29/05
	units													
Volatile Compounds														
Chlorobenzene	ug/kg	1700	840 DJ	11	11	120	[redacted]	[redacted]	6	190 B	99 B	3 BJ	ND	ND
Semi-Volatile Compounds														
4-Chloroaniline	ug/kg	220	ND	ND	[redacted]	[redacted]	[redacted]	[redacted]	ND	220 J	ND	ND	ND	ND
1,2-Dichlorobenzene	ug/kg	7900	ND	14	3 J	2 J	14	23	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/kg	1600	ND	ND	ND	ND	ND	3 J	ND	ND	ND	ND	ND	ND
Nitrobenzene	ug/kg	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/kg	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	mg/Kg		11	40.7	276	10	16.9	24	192	10.6	47.6	239	263	46.1

ND: Compounds was analyzed for but not detected at or al
NA: Compounds was not analyzed for
J: Indicates an estimated value
D: Compounds identified in an analysis at the secondary d
NYSDEC TAGM #4046: New York State Department of I
[redacted]: compound concentration exc

TABLE 1

Tifft and Hopkins Site
Analytical Data
Confirmatory Sample Results

Sample ID:		NYSDEC TAGM #4046	SW-2a	SW-2b	SW-2c	BS-4a	BS-5a	SW-8a	SW-8b	SW-8c	BS-6	BS-7	BS-2d
Lab Sample ID:													
Matrix:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampled:			3/20/05	3/30/05	3/30/05	3/30/05	3/31/05	3/31/05	3/31/05	4/19/05	4/19/05	4/20/05	4/20/05
	units												
Volatile Compounds													
Chlorobenzene	ug/kg	1700	25 B	[redacted]	2 BJ	2 BJ	35	42	[redacted]	ND	16	ND	150
Semi-Volatile Compounds													
4-Chloroaniline	ug/kg	220	ND	[redacted]	ND	120 J	[redacted]	ND	99 J	ND	[redacted]	ND	ND
1,2-Dichlorobenzene	ug/kg	7900	2 J	[redacted]	2 J	ND	ND	1 J	ND	ND	ND	ND	92
1,3-Dichlorobenzene	ug/kg	1600	ND	290 J	ND	ND	ND	1 J	ND	ND	ND	ND	ND
Nitrobenzene	ug/kg	200	ND	[redacted]	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/kg	100	ND	[redacted]	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	mg/Kg		15.6	304	158	8.5	7.4	30	11.7	218	9.1	8.5	13.4

ND: Compounds was analyzed for but not detected at or at
NA: Compounds was not analyzed for
J: Indicates an estimated value
D: Compounds identified in an analysis at the secondary d
NYSDEC TAGM #4046: New York State Department of I
[redacted]: compound concentration exc

APPENDIX C

NYSDEC FACT SHEET

NEW YORK STATE DEPARTMENT OF

ENVIRONMENTAL CONSERVATION

Dear Interested Citizen:
The purpose of this Fact Sheet is to inform you of remedial activities at the Tifft and Hopkins Site. If you have any questions or would like more information, please do not hesitate to contact:

Mr. Maurice Moore
Project Manager
NYSDEC
270 Michigan Avenue
Buffalo, N.Y. 14203
(716) 851-7220

or

Michael Podd
Public Affairs
NYSDEC
270 Michigan Avenue
Buffalo, NY 14203
(716) 851-7220

For site related health questions, please contact the following New York State Department of Health representative:

Mr. Cameron O'Connor
NYSDOH
584 Delaware Avenue
Buffalo, NY 14202
(716) 847-4385

FACT SHEET

Tifft and Hopkins Street

Hazardous Waste Site
Site # 9-15-131
December 2004

INTRODUCTION

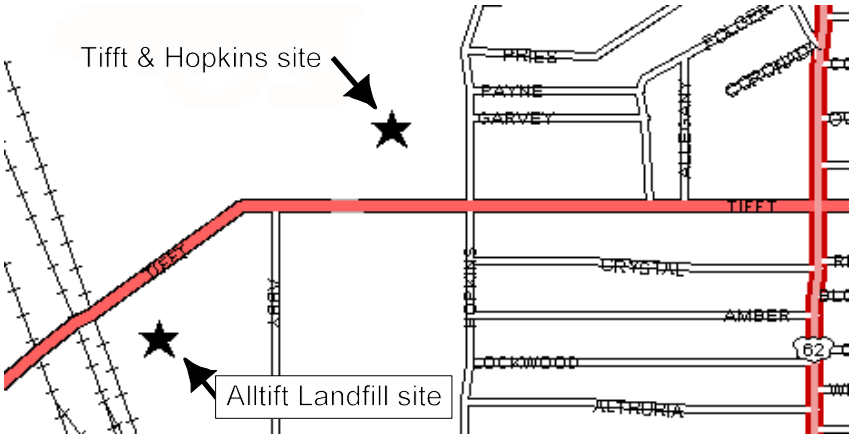
The New York State Department of Environmental Conservation (NYSDEC), in cooperation with the New York State Department of Health (NYSDOH), are pleased to tell you about an upcoming Interim Remedial Measure at the Tifft and Hopkins hazardous waste site (Site). The site is located north of Tifft Street and west of Hopkins Street, in the City of Buffalo, Erie County, New York (see figure).

BACKGROUND

The Tifft and Hopkins site is made up of three separate parcels, 666 Tifft Street and 360 Hopkins Street which are used as a heavy equipment service center and the vacant 380 Hopkins Street. Historically, the Site has had a number of commercial uses including petroleum filling stations, loading yards, vehicle service centers, and freight yards.

ENVIRONMENTAL BACKGROUND

The Site first came to the attention of the Department in 1985 when, during the excavation of a water main, employees from the City of Buffalo Water Department dug through a clay cap and encountered a layer of black, granular, odorous material about 4 to 7 feet below a parking lot. As a result, a preliminary investigation, completed in 1990, found elevated levels of benzene. Because the extent of the site and the impact on the environment was yet undetermined, the site was classified as a 2a site. The 2a classification means that disposal of a hazardous waste was confirmed but that there is inadequate data on waste's impact to the environment or human health.



REMEDIAL BACKGROUND

A number of investigations were completed between 1991 and 1998. These investigations found the soil was contaminated with various chemical compounds including; benzene, toluene, ethylbenzene, xylene ,chlorobenzene dichlorobenzene, nitrobenzene, trichlorobenzene, chloroanaline, naphthalene and phenanthrene. As a result, NYSDEC determined that: "the combination of chemical analysis, site location and historical information, it is likely that the material found at the site has the same source as the waste materials previously identified at the Alltift Landfill." Materials at the Alltift Landfill site include industrial residuals from the former Allied Signal operations in the Buffalo area. Because of Honeywell's acquisition of Allied Signal, Honeywell is responsible for cleaning up the Tifft and Hopkins site and the Alltift Landfill site, which is currently being remediated.

Honeywell completed a comprehensive investigation of the Tifft and Hopkins site in April 2004. The investigation included testing of soil borings and five shallow groundwater monitoring wells. Additionally, a review of historical information indicated that at least six unidentified underground storage tanks (USTs) remain in place at the Site. The presence of these tanks and possible petroleum related contamination could account for the presence of non-Honeywell associated chemicals such as benzene, toluene, ethylbenzene, and xylene.

About 2.5 acres has been impacted with materials which have been associated with operations at facilities previously operated by Allied Signal. These materials were believed to have been used to fill low lying areas on the 360 and 380 Hopkins Street and 666 Tifft Street properties. Currently, the potential for exposure to the contamination is limited because the wastes are below the ground surface and covered by a clay cap and/or pavement. However, this cap has been disturbed in the past and exposure to the contamination is possible. Exposures via drinking water is not expected because the area is served by public water and there are no known users of groundwater in the vicinity.

THE NEXT STEP

The NYSDEC has ordered Honeywell to address environmental impacts at the Tifft and Hopkins Street site due to the presence of the contamination and in order to prevent exposure to the materials at the site. To comply with this order, Honeywell will conduct an Interim Remedial Measure (IRM)consisting of excavating about 30,500 cubic yards of contaminated soil and place them on the Alltift Landfill site as part of that site's remediation. To further ensure the completeness of the site remedial efforts, Honeywell agreed with the site's current owners to remove the remaining USTs. Also, if impacted groundwater is present during the excavation work, it will be collected and properly treated.

The amount of fill material needed at the Alltift Landfill site was underestimated because of a previously undetected bedrock outcropping under the site. As a result, there is room for the soil excavated from the Tifft and Hopkins Site to be disposed of at the Alltift Site. These materials are similar to some of the material at the Alltift Landfill site and likely came from the same source. The additional material from the Tifft and Hopkins site will not impact the design of the Alltift Landfill remediation.

Honeywell's contractor will begin site clearing and excavation this winter. All remedial work will be done with NYSDEC oversight and will follow an approved health and safety plan. Once the remediation is complete, the site can be used for commercial or industrial activities. To ensure the proper use of the site in the future institutional controls (deed restrictions) may be required. Remedial activities are expected to be completed in 2005.

FOR MORE INFORMATION

Public understanding and involvement are crucial to the success of New York's hazardous waste remedial program. If you would like more information about this site, the NYSDEC has established document repository at:

Dudley Branch Library
2010 South Park Avenue
Buffalo, NY;

or, by appointment,
NYSDEC's Buffalo Office
270 Michigan Avenue
Buffalo, N.Y.
(716) 851-7220

All site related documents have been placed in the repositories. If you have any questions or concerns, please feel free to contact the individuals listed on the front of this Fact Sheet.

APPENDIX D

LETTER TO CITY OF BUFFALO

April 27, 2005

Mr. Larry J. Schiavone
Building Inspector
City of Buffalo
304 City Hall
Buffalo, NY 14202

Dear Mr. Schiavone:

In January 2005, Honeywell International entered into an Order on Consent with the New York State Department of Environmental Conservation to complete an Interim Remedial Measure (IRM) of the removal of impacted material located at 380 Hopkins St.

As part of the IRM the remnants of the wood frame building located on the west end of 380 Hopkins St. were removed and transported to the Alltift Landfill Site for disposal.

If you require any additional information please call me at (716) 633-7074.

Very truly yours,



Jeffrey Poulsen
Project Manager

cc: Maurice Moore (NYSDEC)
Bernard Jakubik
File 440707 (10)

APPENDIX E

UST REMOVAL REPORT

SJB SERVICES, INC.

Contract Drilling and Testing

☐ **CORPORATE/ BUFFALO OFFICE**
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

☐ **ALBANY OFFICE**
PO Box 2199
Ballston Spa, NY 12020

5 Knabner Road
Mechanicville, NY 12118
Phone: (518) 899-7491
Fax: (518) 899-7496

☐ **CORTLAND OFFICE**
60 Miller Street
Cortland NY 13045
Phone: (607) 758-7182
Fax: (607) 758-7188

☐ **ROCHESTER OFFICE**
535 Summit Point Drive
Henrietta, NY 14467
Phone: (585) 359-2730
Fax: (585) 359-9668

☐ **SYRACUSE OFFICE**
6730 Myers Road
East Syracuse, NY 13057
Phone: (315) 437-3890
Fax: (315) 437-3582

UNDERGROUND STORAGE TANK CLOSURE
TIFFT AND HOPKINS SITE
NYSDEC NO. 915131
BUFFALO, NEW YORK

PREPARED FOR:

Pinto Construction.
One Babcock Street
Buffalo, New York 14210

PREPARED BY:

EMPIRE GEO-SERVICES, INC.
PROJECT NO. BEV-05-011

MAY 2005

1.0 INTRODUCTION

This report prepared by Empire Geo-Services, Inc., summarizes the field observations, soil sampling and laboratory testing associated with the removal of a total of six underground storage tanks (USTs) as part of the remedial work being completed at the Tifft and Hopkins Site (NYSDEC No. 915131), 380 Hopkins and 666 Tifft Street in the City of Buffalo, Erie County, New York. The approximate location of the project site is shown on Figure 1 included in Appendix A of this report.

Empire Geo-Services, Inc. (Empire) was retained by Pinto Construction (Pinto) to provide part-time limited site inspection, documentation, soil sampling, laboratory analytical testing and report preparation with respect to the closure of the six USTs present on the subject site. This work was completed during the time period of April 11th through 15th, 2005.

2.0 PROJECT LOCATION AND DESCRIPTION

The subject site is bounded by Hopkins Street to the east, Tifft Street to the south, the former Germania Street to the west and commercial/industrial use lands to the north. We note that the UST closures performed on the subject site were incorporated into the site remediation and landfill construction project currently in progress for the Tifft and Hopkins Site, located along Hopkins Street south of the subject site.

Previous environmental site assessments (ESA's) and investigative work assignments completed by others at the site delineated a total of six UST's present within the project area. Several buildings are currently present on the subject site, and the addresses for these structures were utilized to reference the USTs closed as part of this project.

- 380 Hopkins Street : Two - 2,000 gallon USTs were located in a shared grave approximately 35 feet north of the northern face of the building at this address. This area was designated MNOP according to the survey provided to Empire, and included as Figure 1 of this report.

- 666 Tifft Street : Two 5,000 gallon USTs were located in a shared grave approximately 150 feet north of the northern face of the structure. This area was designated ABCDEFGH on the included site survey.

- 666 Tifft Street : One 4,000 gallon and one 10,000 gallon USTs were located in separate graves approximately 50 feet from the southeastern corner of the building at this address. This area was designated IJKL on the included site survey. Due to these USTs being removed on different days, Empire designated the first UST removed (4,000 gallon) "E UST" for sampling purposes. Empire designated the second UST removed (10,000 gallon) as "SE UST".

3.0 EXCAVATION OF AFFECTED AREA

On April 11th, 2005, Pinto commenced excavation of the USTs present on the subject site. Empire provided an Environmental Geologist on a will-call basis during the UST removal and contaminated soil excavation to monitor the removal operations, perform sampling and testing services. Photographs were taken of the UST removal operations and have been included in Appendix B. Field observations and notes obtained during the UST removal are included in Appendix C.

3.1 UST Removal - **General**

A track mounted Caterpillar 225 backhoe was utilized by Pinto to perform the excavation work. The USTs were sounded for liquid content depth prior to excavation. Residual liquids residing in the USTs were transferred into portable "Baker" tanks via a centrifugal trash pump for temporary on site storage pending off site disposal. The soils surrounding the USTs were then removed from the grave, and stockpiled on poly sheeting pending removal and disposal. Once the backfill soils around the UST had been removed, the UST was hoisted from its grave and staged on poly sheeting for cleaning.

Upon extraction of the UST from its grave, Pinto proceeded to remove any petroleum impacted soils from the walls and floor of the UST grave. It was agreed to that Pinto would not "chase"(by excavation) any potentially impacted/stained soils during the closure of these USTs. In general, soils were over excavated from around the perimeter approximately 2 feet to 3 feet beyond the original limits of the installed UST backfill bedding. The grave floor was over excavated to a depth of approximately 2-feet beyond the original installed depth. All soils removed from and adjacent to the UST graves were staged on poly sheeting and covered to be disposed off site.

3.2 Soil Sampling and Laboratory Testing

Following the removal of the USTs an contaminated soil excavation, a total of five composite and grab samples were o tained from the UST graves as requested by the NYSDEC. One composite samp e was obtained from the each wall of the UST grave. These were designated with a cardinal direction (ie. north, south, east or west) and "Wall" for the respective I ST location. The other grab sample was designated "Floor" and was obtained fr n the bottom of the UST grave. We note that there were no samples collected for he closure of the two 5,000 gallon USTs removed from the north side of 666 ' ifft Street (designated ABCDEFGH on Figure 1) due to those USTs being loca ed within the remedial cleanup area. All soils around and under the UST's an in the general vicinity were removed, disposed of at the Alltift Landfill Site (N YSDEC No. 9-15-054) and replaced with clean fill as part of the ongoing remed ation, thus there were no "native" soils present within that parcel of land.

Due to the depth of the excavation and instability of the soils present at the site, Pinto utilized the aforementioned backhoe to assist in collection of the closure samples. The grab samples were placed into precleaned 8 oz. glass sample jars with Teflon septum caps. The glass sample jars were labeled with the date, time and location of the project, and placed in an ice cooler at approximately 4-degrees Celsius for transport to a New York State Department of Health (NYSDOH) Certified Analytical Testing Laboratory, Upstate Laboratories Inc. (Upstate), 6034 Corporate Drive, East Syracuse, New York, via courier. Included with the samples was a chain-of custody record. The grab samples were each analyzed for volatile organic compounds (EPA Method 8260-STARS list) and semi-volatile organic compounds (EPA Method 8270-STARS list). The analytical test report prepared by Upstate is presented in Appendix D and the compounds detected will be discussed later in this report.

Upon removal of the USTs and associated impacted soils from the graves, the excavation was backfilled with "bank run" silty gravel/sand fills trucked in from an off-site source. The fills were compacted in place utilizing the track mounted backhoe and a dozer to minimize future settlement.

4.0 DISPOSAL OF WASTE GENERATED

4.1 Liquids

Liquids generated during the removal of the USTs included residual water/virgin fuel oils remaining in the UST as well as a limited amount of groundwater that infiltrated into the excavation during abandonment. These liquids were staged on site in portable "Baker" tanks pending project completion and off site disposal. A total of approximately 5,500 gallons of petroleum-contaminated water was transported off site by Tonawanda Tank Transport to General Environmental Management LLC in Cleveland, Ohio for disposal. The disposal manifest is included in Appendix E of this report.

4.2 USTs

As previously mentioned, the USTs were staged on poly sheeting after their extraction from their grave. The internal atmosphere of the UST was tested by Pinto to determine if explosive vapors remained within the UST prior to cutting and cleaning. Upon determination that there were no levels of vapors exceeding the lower explosive limits (LEL), Pinto cut access ways into both ends of the UST to allow the entrance of a cleaning crew. Materials remaining inside ("Tank Bottoms") were scraped and mixed with absorbent (Speedy-dry). The "Tank Bottoms" were then staged on site in 55-gallon drums upon completion of cleaning. A total of 6 drums of "Tank Bottoms" were transported by Op-Tech Environmental Services to Cycle Chem Inc. in Lewisberry, Pennsylvania for disposal. The disposal manifest is included in Appendix F of this report.

After internal cleaning of the USTs, Pinto proceeded to cut the UST into sections for off site disposal. The USTs were sectioned into manageable pieces, and placed into 30 cubic yard dumpsters. The loaded dumpsters were then transported by BFI to the Niagara Landfill in Niagara Falls, New York for disposal. The disposal manifests for the scrap steel USTs is included in Appendix G of this report.

4.3 Soils

All soils generated as part of this closure project were staged on poly sheeting adjacent to the UST grave. The soil pile was observed to be covered with poly sheeting during times of no activity. The soils were then loaded onto dump trucks and transported to the Alltift Landfill site currently under construction approximately 0.2 miles south of the subject site for final disposal.

5.0 LABORATORY ANALYTICAL TEST RESULTS

Three individual sets of five samples (four wall samples and one floor sample) each were collected and shipped via courier to Upstate Laboratory for testing. The grab samples were each analyzed for volatile organic compounds (EPA Method 8260-STARS list) and semi-volatile organic compounds (EPA Method 8270-STARS list). The following summarizes the analytical test results.

380 Hopkins USTs (2 in common grave) - Fluorene detected at a concentration of 370 parts per billion (ug/kg or PPB) on the east wall sample. Fluorene detected at a concentration of 640 parts per billion and Phenanthrene detected at a concentration of 550 parts per billion on the west wall sample. The remaining compounds were not detected a concentration above the practical laboratory qualitative limits in the samples submitted for this UST location.

666 Tifft Street – East UST There were no compounds detected at a concentration above the practical laboratory qualitative limits in the samples submitted for this UST location.

666 Tifft Street – South East UST - There were no compounds detected at a concentration above the practical laboratory qualitative limits in the samples submitted for this UST location.

In comparing the results with the guidance values presented in the *Technical and Administrative Guidance Memorandum # 4046: Determination of Soil Cleanup Objectives and Cleanup Levels* published by the New York State Department of Environmental Conservation (January 1994) we note that the compounds detected in the 380 Hopkins UST samples were below the guidance values of 50,000 parts per billion referenced in the publication.

6.0 CONCLUSION

A total of six underground storage tanks (USTs) were closed, and removed by Pinto Construction at the subject site during the time period of April 11th through 15th, 2005. The USTs were properly cleaned, cut into manageable sections and disposed of at an off site registered landfill. Soils, residual liquids and "Tank Bottoms" generated during the closure process were also properly manifested, transported off site and disposed of.

We trust this information satisfies your current requirements. If you have any questions, please contact the undersigned at any time. We appreciated the opportunity to be of service to your firm.

Respectfully Submitted,
SJB SERVICES INC.

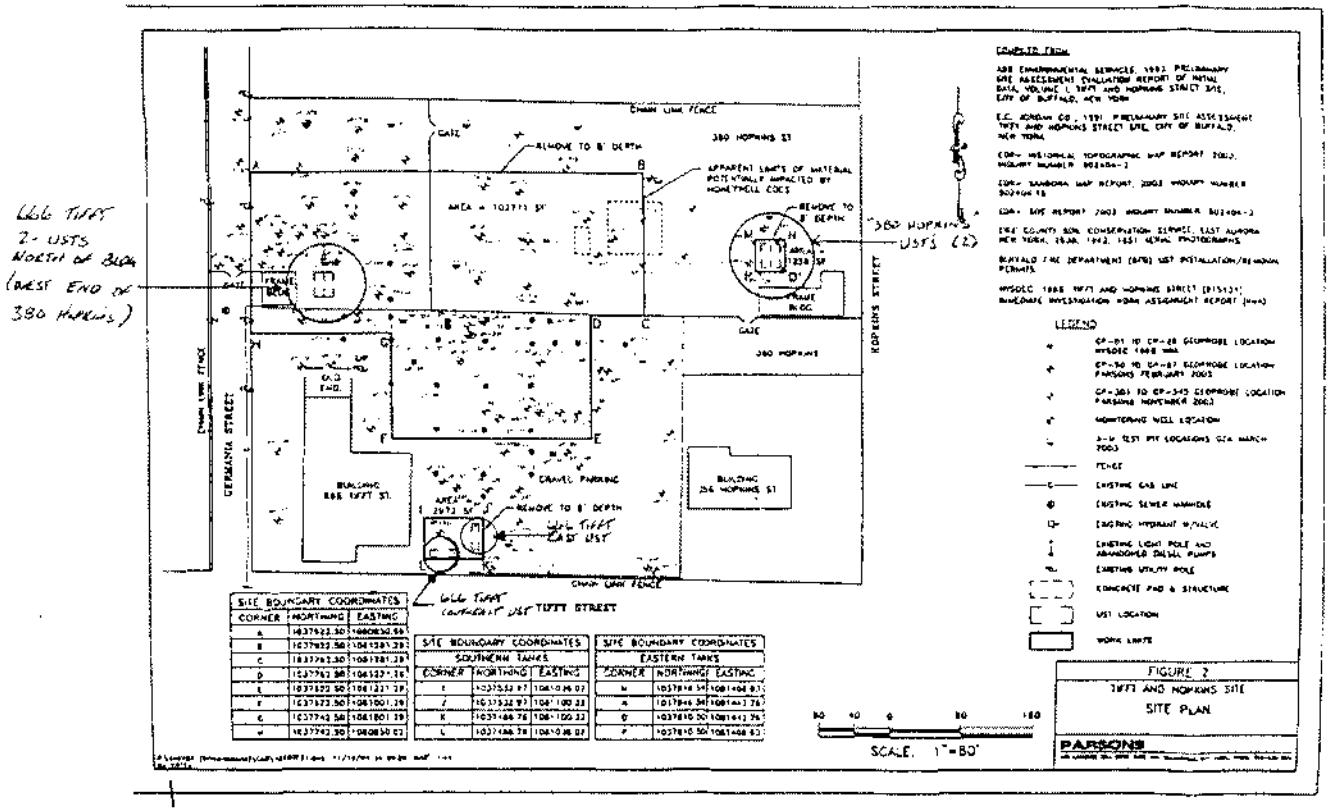
Frank R. Mimnolera Jr.
Environmental Geologist

Charles Guzzetta 5/26/05 KMH

Charles B. Guzzetta
Geotechnical/Environmental Specialist

APPENDIX A

PROJECT SITE PLAN



SITE BOUNDARY COORDINATES		
CORNER	NORTHING	EASTING
A	1037823.30	1060830.69
B	1037822.58	1061381.39
C	1037821.30	1061381.39
D	1037743.58	1061427.16
E	1037820.58	1061221.39
F	1037873.50	1061001.29
G	1037742.58	1061001.39
H	1037742.30	1060830.02

SITE BOUNDARY COORDINATES		
SOUTHERN TANKS		
CORNER	NORTHING	EASTING
I	1037753.52	1061106.02
J	1037753.52	1061100.22
K	1037686.76	1061100.22
L	1037686.76	1061106.02

SITE BOUNDARY COORDINATES		
EASTERN TANKS		
CORNER	NORTHING	EASTING
M	1037814.54	1061404.83
N	1037814.54	1061401.76
O	1037810.50	1061412.76
P	1037810.50	1061408.83

EMPIRE GEO SERVICES, INC.	SUBSURFACE INVESTIGATION PLAN		
UST LOCATION PLAN HONEYWELL SITE			
DRAWN BY: PARSON	SCALE: REDUCED	PROJECT NO:	BEV-05-011
CHECKED BY: FRH	DATE: 5/04	DRAWING NO:	1

APPENDIX B

SITE PHOTOGRAPHS

EMPIRE SERVICES, INC.

CLIENT:	**Pinto Construction**		
PROJECT:	**Honeywell UST Closure**		
PROJECT LOCATION:	**Hopkins and Tifft Streets, NY**		
PROJECT NUMBER:	**BEV-05-011**	**DATE PHOTOGRAPHED:**	**04/11/05**
PHOTOGRAPHED BY:	**FRM**	**PHOTOGRAPH No:**	**1**



DESCRIPTION: Two 2,000-gallon USTs removed from 380 Hopkins Site, staged on poly in preparation for cleaning

EMPIRE
SERVICES, INC.

CLIENT:	**Pinto Construction**		
PROJECT:	**Honeywell UST Closure**		
PROJECT LOCATION:	**Hopkins and Tifft Streets, NY**		
PROJECT NUMBER:	**BEV-05-011**	**DATE PHOTOGRAPHED:**	**04/11/05**
PHOTOGRAPHED BY:	**FRM**	**PHOTOGRAPH No:**	**2**



DESCRIPTION: 380 Hopkins Street UST grave.

EMPIRE GEO SERVICES, INC.
5167 SOUTH PARK AVENUE, HAMBURG, NY 14075 (716) 649-8110

EMPIRE
SERVICES, INC.

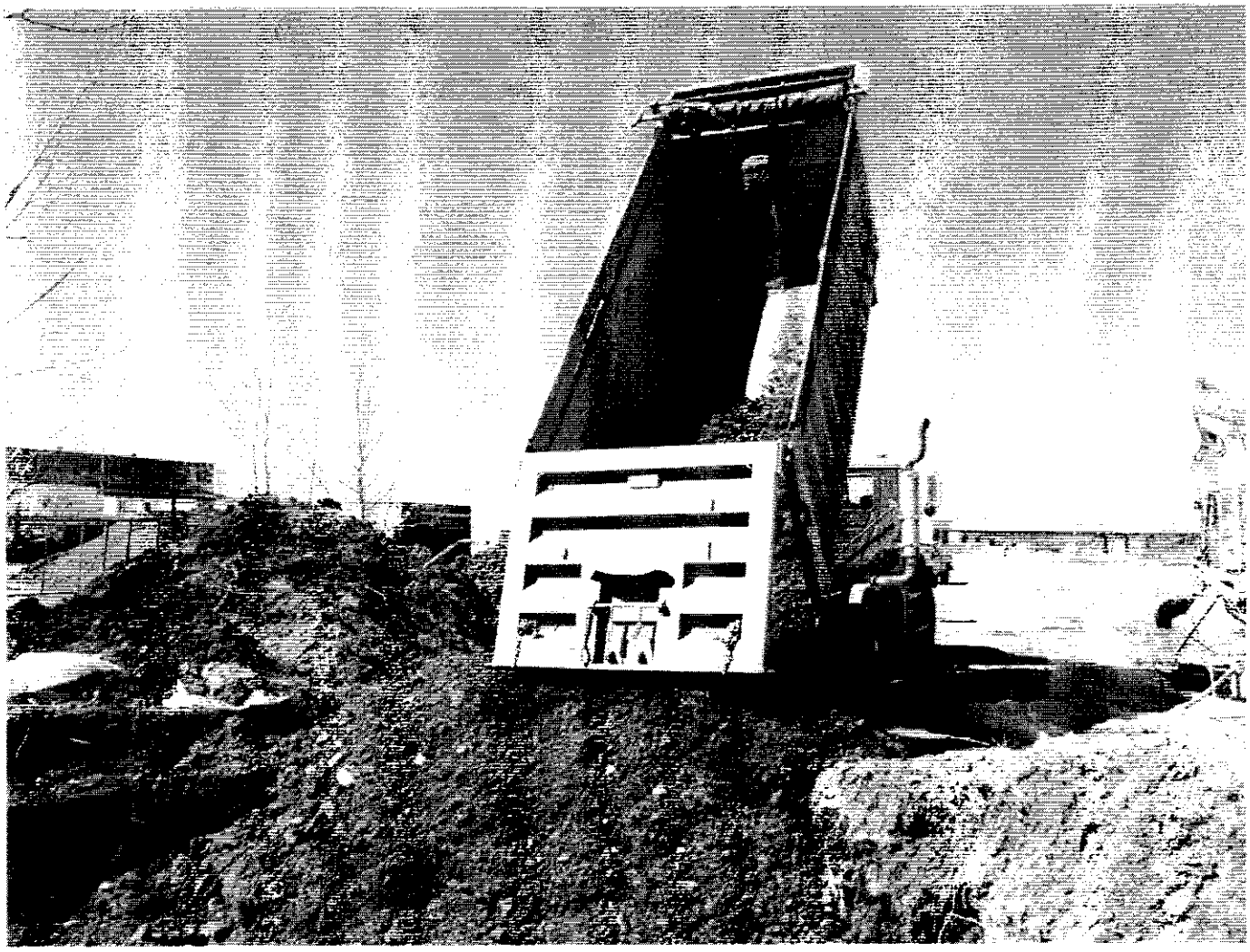
CLIENT:	**Pinto Construction**		
PROJECT:	**Honeywell UST Closure**		
PROJECT LOCATION:	**Hopkins and Tifft Streets, NY**		
PROJECT NUMBER:	**BEV-05-011**	**DATE PHOTOGRAPHED:**	**04/12/05**
PHOTOGRAPHED BY:	**FRM**	**PHOTOGRAPH No:**	**3**



DESCRIPTION: Cleaning and cutting 380 Hopkins USTS.

EMPIRE
SERVICES, INC.

CLIENT:	**Pinto Construction**		
PROJECT:	**Honeywell UST Closure**		
PROJECT LOCATION:	**Hopkins and Tifft Streets, NY**		
PROJECT NUMBER:	**BEV-05-011**	**DATE PHOTOGRAPHED:**	**04/12/05**
PHOTOGRAPHED BY:	**FRM**	**PHOTOGRAPH No:**	**4**

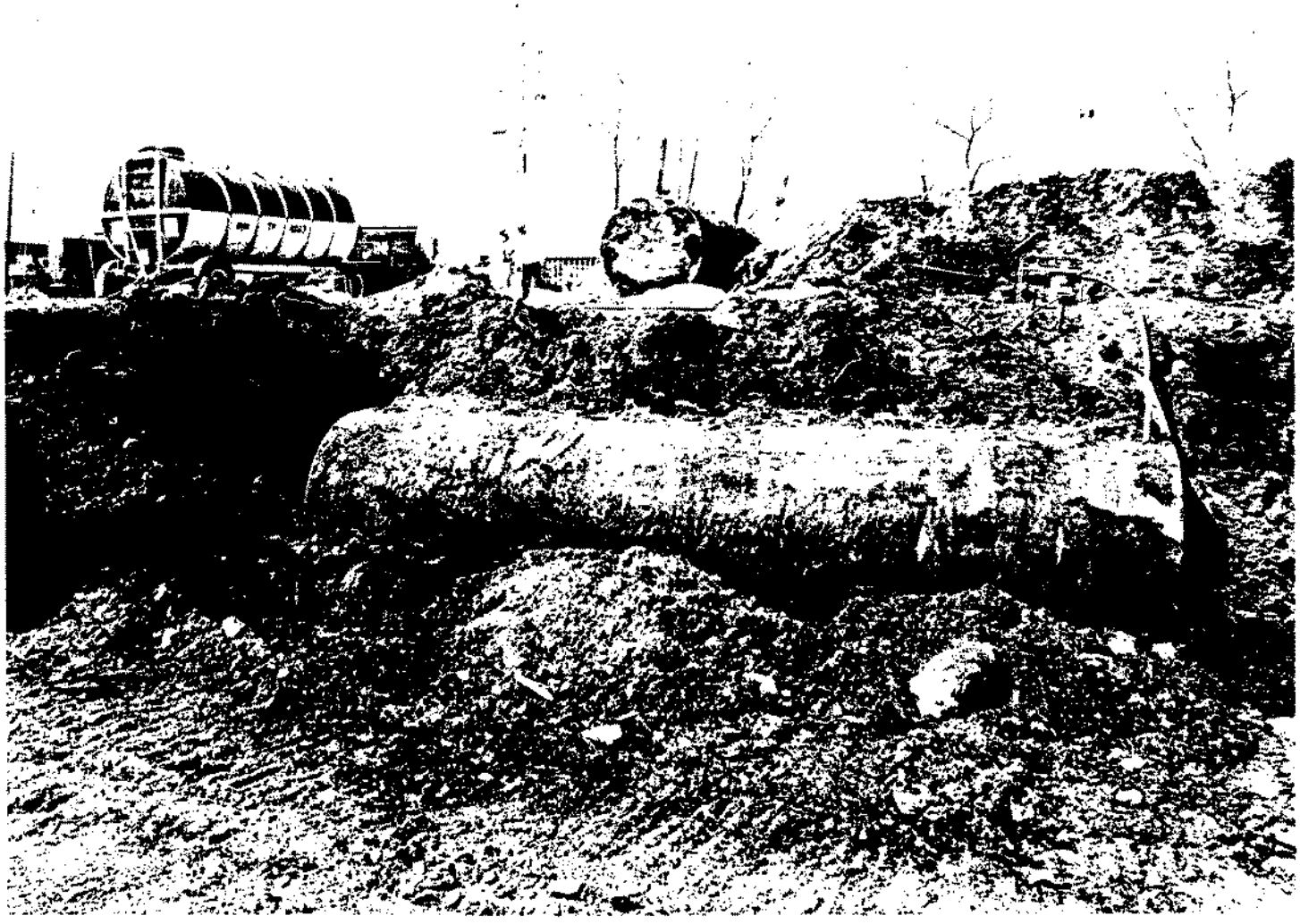


DESCRIPTION: Backfilling the 380 Hopkins UST grave.

EMPIRE GEO SERVICES, INC.
5167 SOUTH PARK AVENUE, HAMBURG, NY 14075 (716) 649-8110

EMPIRE GEO SERVICES, INC.

CLIENT:	**Pinto Construction**		
PROJECT:	**Honeywell UST Closure**		
PROJECT LOCATION:	**Hopkins and Tifft Streets, NY**		
PROJECT NUMBER:	**BEV-05-011**	**DATE PHOTOGRAPHED:**	**04/13/05**
PHOTOGRAPHED BY:	**FRM**	**PHOTOGRAPH No:**	**5**



DESCRIPTION: 2 5,000 gallon USTs at west end of 380 Hopkins. One UST already out in background.

EMPIRE
SERVICES, INC.

CLIENT:	**Pinto Construction**		
PROJECT:	**Honeywell UST Closure**		
PROJECT LOCATION:	**Hopkins and Tifft Streets, NY**		
PROJECT NUMBER:	**BEV-05-011**	**DATE PHOTOGRAPHED:**	**04/13/05**
PHOTOGRAPHED BY:	**FRM**	**PHOTOGRAPH No:**	**6**



DESCRIPTION: 380 Hopkins USTs cleaned and sectioned for disposal.

EMPIRE
SERVICES, INC.

CLIENT:	**Pinto Construction**		
PROJECT:	**Honeywell UST Closure**		
PROJECT LOCATION:	**Hopkins and Tifft Streets, NY**		
PROJECT NUMBER:	**BEV-05-011**	**DATE PHOTOGRAPHED:**	**04/14/05**
PHOTOGRAPHED BY:	**FRM**	**PHOTOGRAPH No:**	**7**



DESCRIPTION: East UST at 666 Tifft Street – removed from grave.

EMPIRE SERVICES, INC.

CLIENT:	**Pinto Construction**		
PROJECT:	**Honeywell UST Closure**		
PROJECT LOCATION:	**Hopkins and Tifft Streets, NY**		
PROJECT NUMBER:	**BEV-05-011**	**DATE PHOTOGRAPHED:**	**04/14/05**
PHOTOGRAPHED BY:	**FRM**	**PHOTOGRAPH No:**	**8**

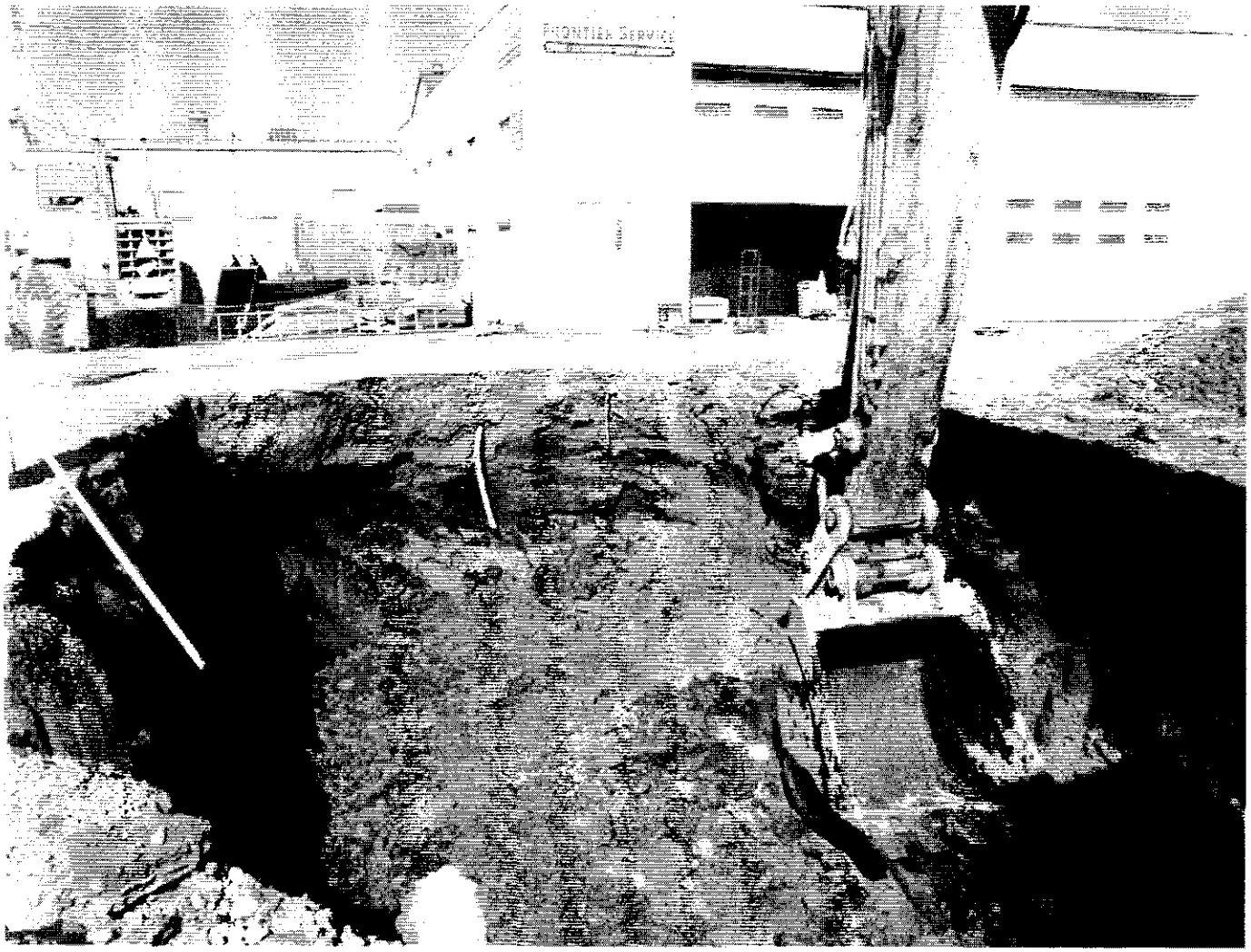


DESCRIPTION: Cleaning 2 USTs from west end of 380 Hopkins site.

EMPIRE GEO SERVICES, INC.
5167 SOUTH PARK AVENUE, HAMBURG, NY 14075 (716) 649-8110

EMPIRE SERVICES, INC.

CLIENT:	**Pinto Construction**		
PROJECT:	**Honeywell UST Closure**		
PROJECT LOCATION:	**Hopkins and Tifft Streets, NY**		
PROJECT NUMBER:	**BEV-05-011**	**DATE PHOTOGRAPHED:**	**04/15/05**
PHOTOGRAPHED BY:	**FRM**	**PHOTOGRAPH No:**	**9**



DESCRIPTION: UST grave from 666 Tifft Street – designated Southeast UST.

EMPIRE GEO SERVICES, INC.

CLIENT:	**Pinto Construction**		
PROJECT:	**Honeywell UST Closure**		
PROJECT LOCATION:	**Hopkins and Tifft Streets, NY**		
PROJECT NUMBER:	**BEV-05-011**	**DATE PHOTOGRAPHED:**	**04/15/05**
PHOTOGRAPHED BY:	**FRM**	**PHOTOGRAPH No:**	**10**



DESCRIPTION: Southeast UST from 666 Tifft Street, staged on poly and ready for cleaning.

APPENDIX C

FIELD OBSERVATIONS

SJB SERVICES, INC.
Contract Drilling and Testing

BUFFALO OFFICE
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

INSPECTOR'S DAILY REPORT

Date: 4/11/05

Project: UST Removal - Hopkins St
Client: Pinto Construction
Contractor: Pinto
Project No.:
Report No.: 1

Day:	S	M X	T	W	TH	F	SA
Weather:	Sunny X		Clear		Overcast		Rain	Snow
Temperature:	to 32		32 to 50		50 to 70 X		70 to 85	85 +
Wind:	Still X		Moderate		High			

OBSERVATIONS:

0700 - ATTEND SAFETY MEETING, MEET PROJECT MANAGERS

0745 - MEETING ENDS, LEAVE SITE (WILL RETURN LATER)

1415 - RETURN TO SITE, PINTO HAS 2 - 2K GALLON USTs (64' 11" LONG) REMOVED FROM 380 HOPKINS SITE

TANKS LOADED ON TRK, SOIL SAMPLES ON TRK + COVERED

WILL RETURN TUES 4/12/05 TO LOAD

1515 OFF SITE

Technician: Time On Site:

Respectfully Submitted,
SJB SERVICES, INC.

Frank Mirabito

SJB SERVICES, INC.
Contract Drilling and Testing

BUFFALO OFFICE
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

INSPECTOR'S DAILY REPORT

Date: 4/12/05

Project: UST Removal - Hoskins St
Client: Pinto Construction
Contractor: Pinto
Project No.:
Report No.: 2

Day:	S	M	T X	W	TH	F	SA						
Weather:	Sunny √			Clear			Overcast			Rain		Snow	
Temperature:	to 32			32 to 50 X			50 to 70			70 to 85		85 +	
Wind:	Still X			Moderate			High						

OBSERVATIONS:

0700 - Arrive at Site, attend Safety Meeting
0730 - Set up to excavate contaminated soils around 3 SW tanks
USTs
0800 - Pump water from excavation near tanks
1500 - Collect Soil Sample from Tank Grave, no Free Product
1000 - Collect Confirm Soil Sample at wall, 1 ppm
1030 - Collect confirm soil sample at E + S wall, Slight odor, 1-2 ppm
1045 - Collect confirm soil sample at W. wall - 3-4 ppm
1100 - Begin backfilling tanks, began cleaning USTs
1200 - Lunch, Stockpile Soil

Technician:

Time On Site:

Respectfully Submitted,
SJB SERVICES, INC.

F Minardo

SJB SERVICES, INC.
Contract Drilling and Testing

BUFFALO OFFICE
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

INSPECTOR'S DAILY REPORT

Project: UST closure - Honeywell site
Client: Pinto Construction
Contractor:
Project No.:
Report No.: 3

Date: 4/13/05

Day:	S	M	T	W	TH	F	SA
				X			

Weather:	Sunny	Clear	Overcast	Rain	Snow
	X				

Temperature:	to 32	32 to 50	50 to 70	70 to 85	85 +
		X			

Wind:	Still	Moderate	High
	X		

OBSERVATIONS:

1115 - on site - observed 2 - 2K UST's from 390 Ingleside Ave cut & cleaned

Pinto working at 666 Flat Street - 2 Northern USTs, in pairs on "islands". 1 UST out, contractor preparing to cut 2nd UST.

Discussed w/ Dave Lesser (PA DEP) - no sampling required at this site because all soil around UST (whole site) has been removed & soil to backfill under construction.

Pinto pumping out 2nd UST - all water in Baker tanks.

1200 OFF SITE

Technician:

Time On Site:

Respectfully Submitted,
SJB SERVICES, INC.

K Minnolone

SJB SERVICES, INC.
Contract Drilling and Testing

BUFFALO OFFICE
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

INSPECTOR'S DAILY REPORT

Date: 4/14/05

Project: UST Closure - Pinto Construction
Client: Pinto
Contractor:
Project No.:
Report No.: 4

Day:	S M	T W	TH ✓	F	SA	
Weather:	Sunny	Clear ✓	Overcast	Rain	Snow	
Temperature:	to 32	32 to 50	50 to 70 ✓	70 to 85	85 +	
Wind:	Still ✗	Moderate	High			

OBSERVATIONS:

1330 – Pinto working on East Side of 666 TAFT STREET
1 - (6Y" x 24') 4K gallon UST pulled – designated
"666 TAFT - E. UST".
Collect 4 Composite soil + 1 Floor Sample (Grab)

Pinto Union – Hamm, 2 - 666 North UST's, Tug Hill
Backfilling Hamm Loop, - no Service Required

Pinto Begins Backfilling 666 E. UST

1430 SJB off Site

Technician: Time On Site:

Respectfully Submitted,
SJB SERVICES, INC.

F. Minnolona

SJB SERVICES, INC.
Contract Drilling and Testing

BUFFALO OFFICE
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

INSPECTOR'S DAILY REPORT

Date: 4/15/05

Project: UST Closure
Client: Pinto
Contractor:
Project No.:
Report No.: 5

Day:	S	M	T	W	TH	F ✓	SA
Weather:	Sunny		Clear ✓		Overcast	Rain	Snow
Temperature:	to 32		32 to 50 ✓		50 to 70	70 to 85	85 +
Wind:	Still ✓		Moderate		High		

OBSERVATIONS:

0930 – Arrived on site – Pinto Petroleum 10K UST from SE side of Bldg (Designation 666 TRF – S.E. UST)
Tank 8'H x 26'5" L = 10K UST

1080 – Collected 5 Samples – NSEW Composite + Floor Sample
Slight odor, BKG – 1PPM

Pinto Backfilling SE UST area, Crew cutting + Cleaning N Side USTs previously removed

1145 – off site

Technician:

Time On Site:

Respectfully Submitted,
SJB SERVICES, INC.

F Minnaloza

APPENDIX D

ANALYTICAL TEST RESULTS

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209
Mailing: Box 289 * Syracuse, NY 13206
Albany (518) 459-3134 * Binghamton (607) 724-0478 * Buffalo (716) 649-2533
Rochester (585) 436-9070 * New Jersey (201) 343-5353 * South Carolina (864) 878-3280

Mr. Frank Minnolera
SJB/Empire Geoservices, Inc.
5167 South Park Avenue
Hamburg, NY 14075

Wednesday, May 04, 2005

RE: Honeywell UST Site - Tifft/Hopkins

Order No.: U0504223

Dear Mr. Frank Minnolera:

Upstate Laboratories, Inc. received 5 sample(s) on 4/14/2005 for the analyses presented in the following report.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala
President/CEO

Upstate Laboratories, Inc.

Date: *04-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: 380 Hopkins-Floor Center
Lab Order: U0504223
Collection Date: 4/12/05 9:00:00 AM
Project: Honeywell UST Site - Tifft/Hopkins
Lab ID: U0504223-001
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **KL**
Acenaphthene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Fluorene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Phenanthrene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Anthracene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Fluoranthene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Pyrene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Benz(a)anthracene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Chrysene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Benzo(b)fluoranthene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Benzo(k)fluoranthene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Benzo(a)pyrene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Dibenz(a,h)anthracene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Benzo(g,h,i)perylene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
Indeno(1,2,3-cd)pyrene	ND	350		µg/Kg-dry	1	5/1/05 4:10:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
1,3,5-Trimethylbenzene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
4-Isopropyltoluene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
Benzene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
Ethylbenzene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
Isopropylbenzene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
m,p-Xylene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
Methyl tert-butyl ether	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
n-Butylbenzene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
n-Propylbenzene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
Naphthalene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
o-Xylene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
sec-Butylbenzene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
tert-Butylbenzene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
Toluene	ND	3.1		µg/Kg-dry	1	4/22/05 10:39:00 AM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	4.46	0.00100		wt%	1	4/26/05

Approved By: PFF **Date:** 5-4-05

Qualifiers:

- * Low Level
- ** Value exceeds Maximum Contaminant Value
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *04-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: 380 Hopkins-N. Wall
Lab Order: U0504223
Collection Date: 4/12/05 10:00:00 AM
Project: Honeywell UST Site - Tifft/Hopkins
Lab ID: U0504223-002
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **KL**
Acenaphthene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Fluorene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Phenanthrene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Anthracene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Fluoranthene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Pyrene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Benz(a)anthracene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Chrysene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Benzo(b)fluoranthene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Benzo(k)fluoranthene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Benzo(a)pyrene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Dibenz(a,h)anthracene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Benzo(g,h,i)perylene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
Indeno(1,2,3-cd)pyrene	ND	390		µg/Kg-dry	1	5/1/05 4:54:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
1,3,5-Trimethylbenzene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
4-Isopropyltoluene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
Benzene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
Ethylbenzene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
Isopropylbenzene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
m,p-Xylene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
Methyl tert-butyl ether	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
n-Butylbenzene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
n-Propylbenzene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
Naphthalene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
o-Xylene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
sec-Butylbenzene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
tert-Butylbenzene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM
Toluene	ND	290		µg/Kg-dry	83.3333	4/21/05 6:45:00 PM

NOTES:
The reporting limits were raised due to matrix interference.

PERCENT MOISTURE		**D2216**				Analyst: **TMC**
Percent Moisture	14.6	0.00100		wt%	1	4/25/05

Approved By: PFF **Date:** 5-4-05

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *04-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: 380 Hopkins-S. Wall
Lab Order: U0504223
Collection Date: 4/12/05 10:30:00 AM
Project: Honeywell UST Site - Tiffft/Hopkins
Lab ID: U0504223-003
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **KL**
Acenaphthene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Fluorene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Phenanthrene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Anthracene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Fluoranthene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Pyrene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Benz(a)anthracene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Chrysene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Benzo(b)fluoranthene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Benzo(k)fluoranthene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Benzo(a)pyrene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Dibenz(a,h)anthracene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Benzo(g,h,i)perylene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
Indeno(1,2,3-cd)pyrene	ND	360		µg/Kg-dry	1	5/1/05 5:38:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
1,3,5-Trimethylbenzene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
4-Isopropyltoluene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
Benzene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
Ethylbenzene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
Isopropylbenzene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
m,p-Xylene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
Methyl tert-butyl ether	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
n-Butylbenzene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
n-Propylbenzene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
Naphthalene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
o-Xylene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
sec-Butylbenzene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
tert-Butylbenzene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
Toluene	ND	3.2		µg/Kg-dry	1	4/22/05 9:57:00 AM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	7.36	0.00100		wt%	1	4/26/05

Approved By: PFF **Date:** 5-4-05

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *04-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: 380 Hopkins-E. Wall
Lab Order: U0504223
Collection Date: 4/12/05 10:30:00 AM
Project: Honeywell UST Site - Tifft/Hopkins
Lab ID: U0504223-004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **KL**
Acenaphthene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Fluorene	370	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Phenanthrene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Anthracene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Fluoranthene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Pyrene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Benz(a)anthracene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Chrysene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Benzo(b)fluoranthene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Benzo(k)fluoranthene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Benzo(a)pyrene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Dibenz(a,h)anthracene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Benzo(g,h,i)perylene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
Indeno(1,2,3-cd)pyrene	ND	360		µg/Kg-dry	1	5/1/05 6:21:00 PM
NOTES:						
The reporting limits were raised due to matrix interference.						
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
1,3,5-Trimethylbenzene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
4-Isopropyltoluene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
Benzene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
Ethylbenzene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
Isopropylbenzene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
m,p-Xylene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
Methyl tert-butyl ether	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
n-Butylbenzene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
n-Propylbenzene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
Naphthalene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
o-Xylene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
sec-Butylbenzene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
tert-Butylbenzene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
Toluene	ND	270		µg/Kg-dry	83.333	4/22/05 11:22:00 AM
NOTES:						
The reporting limits were raised due to matrix interference.						
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	7.85	0.00100		wt%	1	4/26/05

Approved By: PFF **Date:** 5-4-05

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *04-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: 380 Hopkins-W. Wall
Lab Order: U0504223
Collection Date: 4/12/05 10:45:00 AM
Project: Honeywell UST Site - Tifft/Hopkins
Lab ID: U0504223-005
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **KL**
Acenaphthene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Fluorene	640	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Phenanthrene	550	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Anthracene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Fluoranthene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Pyrene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Benz(a)anthracene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Chrysene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Benzo(b)fluoranthene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Benzo(k)fluoranthene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Benzo(a)pyrene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Dibenz(a,h)anthracene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Benzo(g,h,i)perylene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
Indeno(1,2,3-cd)pyrene	ND	400		µg/Kg-dry	1	5/1/05 7:04:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
1,3,5-Trimethylbenzene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
4-Isopropyltoluene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
Benzene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
Ethylbenzene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
Isopropylbenzene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
m,p-Xylene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
Methyl tert-butyl ether	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
n-Butylbenzene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
n-Propylbenzene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
Naphthalene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
o-Xylene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
sec-Butylbenzene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
tert-Butylbenzene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM
Toluene	ND	1200		µg/Kg-dry	333.333	4/22/05 12:04:00 PM

NOTES:
The reporting limits were raised due to matrix interference.

PERCENT MOISTURE		**D2216**			Analyst: **SL**
Percent Moisture	16.6	0.00100	wt%	1	4/26/05

Approved By: PFF **Date:** 5-4-05

Qualifiers:
- * Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- ** Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.
6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

649-2533 Don Clark

Chain Of Custody Record

10 WRK DAYS

Client: SJB SERVICES
Client Project # / Project Name: TIFFT / HOPKINS UST SITE
Client Contact: E MINNOLERA
Phone #: 649-8110
Site Location (city/state): 380 HOPKINS BUFFALO NY

Special Turnaround Time ____ (Lab Notification required)

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only UCS04233	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Remarks
380 HOPKINS - FLOOR CENTER	4/12/05	0900	S	G	-001	1	X	X									
" " - N. WALL	↓	1000	↓	C	-002	1	X	X									
" " - S. WALL	↓	1030	↓	C	-003	1	X	X									
" " - E WALL	↓	1030	↓	C	-004	1	X	X									
" " - W WALL	↓	1045	↓	C	-005	1	X	X									

5 CONTAINERS TOTAL [signature]

parameter and method	sample bottle: type	size	pres.
1) STARS 8260 STARS 8270	GL	8OZ	—
2) (SOIL MOISTURE) 1st 4 KITS			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) FRANC MINNOLERA
Company: SJB SERVICES INC

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☐ Dropoff
☐ ___

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	4/12/05	1320	SJB COOLER
SJB COOLER	4/13/05	1230	[signature]
[signature]	4/13/05	1700	
	4/14/05	1530	Rec'd for Lab by: (Signature) [signature]

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209
Mailing: Box 289 * Syracuse, NY 13206
Albany (518) 459-3134 * Binghamton (607) 724-0478 * Buffalo (716) 649-2533
Rochester (585) 436-9070 * New Jersey (201) 343-5353 * South Carolina (864) 878-3280

Mr. Frank Minnolera
SJB/Empire Geoservices, Inc.
5167 South Park Avenue
Hamburg, NY 14075

Monday, May 09, 2005

RE: Honeywell UST Site - 666 Tifft Street

Order No.: U0504288

Dear Mr. Frank Minnolera:

Upstate Laboratories, Inc. received 5 sample(s) on 4/18/2005 for the analyses presented in the following report.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala
President/CEO

Upstate Laboratories, Inc.

Date: *09-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: E. UST, North Wall
Lab Order: U0504288
Collection Date: 4/14/05 1:45:00 PM
Project: Honeywell UST Site - 666 Tifft Street
Lab ID: U0504288-001
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **LD**
Acenaphthene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Fluorene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Phenanthrene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Anthracene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Pyrene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Benz(a)anthracene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Chrysene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Benzo(b)fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Benzo(k)fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Benzo(a)pyrene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Dibenz(a,h)anthracene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Benzo(g,h,i)perylene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
Indeno(1,2,3-cd)pyrene	ND	380		µg/Kg-dry	1	5/6/05 3:53:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
1,3,5-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
4-Isopropyltoluene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
Benzene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
Ethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
Isopropylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
m,p-Xylene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
Methyl tert-butyl ether	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
n-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
n-Propylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
Naphthalene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
o-Xylene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
sec-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
tert-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
Toluene	ND	3.5		µg/Kg-dry	1	4/22/05 12:47:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	13.4	0.00100		wt%	1	4/26/05

Approved By: PFF **Date:** 5-9-05

Qualifiers:

- `*` Low Level
- `**` Value exceeds Maximum Contaminant Value
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *09-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: E. UST, South Wall
Lab Order: U0504288
Collection Date: 4/14/05 1:45:00 PM
Project: Honeywell UST Site - 666 Tifft Street
Lab ID: U0504288-002
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **LD**
Acenaphthene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Fluorene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Phenanthrene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Anthracene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Pyrene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Benz(a)anthracene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Chrysene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Benzo(b)fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Benzo(k)fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Benzo(a)pyrene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Dibenz(a,h)anthracene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Benzo(g,h,i)perylene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
Indeno(1,2,3-cd)pyrene	ND	380		µg/Kg-dry	1	5/6/05 4:36:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
1,3,5-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
4-Isopropyltoluene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
Benzene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
Ethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
Isopropylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
m,p-Xylene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
Methyl tert-butyl ether	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
n-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
n-Propylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
Naphthalene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
o-Xylene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
sec-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
tert-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
Toluene	ND	3.5		µg/Kg-dry	1	4/22/05 1:30:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	14.0	0.00100		wt%	1	4/26/05

Approved By: PFF **Date:** 5-9-05

Qualifiers:

- `*` Low Level
- `**` Value exceeds Maximum Contaminant Value
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *09-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: E. UST, East Wall
Lab Order: U0504288
Collection Date: 4/14/05 1:45:00 PM
Project: Honeywell UST Site - 666 Tifft Street
Lab ID: U0504288-003
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **LD**
Acenaphthene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Fluorene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Phenanthrene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Anthracene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Pyrene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Benz(a)anthracene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Chrysene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Benzo(b)fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Benzo(k)fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Benzo(a)pyrene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Dibenz(a,h)anthracene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Benzo(g,h,i)perylene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
Indeno(1,2,3-cd)pyrene	ND	380		µg/Kg-dry	1	5/6/05 5:18:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
1,3,5-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
4-Isopropyltoluene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
Benzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
Ethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
Isopropylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
m,p-Xylene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
Methyl tert-butyl ether	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
n-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
n-Propylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
Naphthalene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
o-Xylene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
sec-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
tert-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
Toluene	ND	3.5		µg/Kg-dry	1	4/22/05 2:12:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	13.2	0.00100		wt%	1	4/26/05

Approved By: PFF **Date:** 5-9-05

Qualifiers:

- * Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- ** Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *09-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: E. UST, West Wall
Lab Order: U0504288
Collection Date: 4/14/05 1:45:00 PM
Project: Honeywell UST Site - 666 Tifft Street
Lab ID: U0504288-004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **LD**
Acenaphthene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Fluorene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Phenanthrene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Anthracene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Fluoranthene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Pyrene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Benz(a)anthracene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Chrysene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Benzo(b)fluoranthene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Benzo(k)fluoranthene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Benzo(a)pyrene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Dibenz(a,h)anthracene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Benzo(g,h,i)perylene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
Indeno(1,2,3-cd)pyrene	ND	390		µg/Kg-dry	1	5/6/05 6:00:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
1,3,5-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
4-Isopropyltoluene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
Benzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
Ethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
Isopropylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
m,p-Xylene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
Methyl tert-butyl ether	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
n-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
n-Propylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
Naphthalene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
o-Xylene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
sec-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
tert-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
Toluene	ND	3.5		µg/Kg-dry	1	4/22/05 2:55:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	14.4	0.00100		wt%	1	4/26/05

Approved By: PFF **Date:** 5-9-05

Qualifiers:

- `*` Low Level
- `**` Value exceeds Maximum Contaminant Value
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *09-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: E. UST, Floor
Lab Order: U0504288
Collection Date: 4/14/05 1:45:00 PM
Project: Honeywell UST Site - 666 Tifft Street
Lab ID: U0504288-005
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **LD**
Acenaphthene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Fluorene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Phenanthrene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Anthracene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Pyrene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Benz(a)anthracene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Chrysene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Benzo(b)fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Benzo(k)fluoranthene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Benzo(a)pyrene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Dibenz(a,h)anthracene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Benzo(g,h,i)perylene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
Indeno(1,2,3-cd)pyrene	ND	380		µg/Kg-dry	1	5/6/05 6:43:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
1,3,5-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
4-Isopropyltoluene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
Benzene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
Ethylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
Isopropylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
m,p-Xylene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
Methyl tert-butyl ether	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
n-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
n-Propylbenzene	ND	3.5		µg/Kg dry	1	4/22/05 3:38:00 PM
Naphthalene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
o-Xylene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
sec-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
tert-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
Toluene	ND	3.5		µg/Kg-dry	1	4/22/05 3:38:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	13.1	0.00100		wt%	1	4/26/05

Approved By: PFF **Date:** 5-9-05

Qualifiers:

- * Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- ** Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

649-2533 Don Clark

Upstate Laboratories, Inc.

6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

10 WRK DAYS

Client: STB Services Inc
Client Project # / Project Name: Hurwood Site
Client Contact: F Winnsloe
Phone #: 649-
Site Location (city/state): 666 Tifft, Buffalo NY

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Remarks
					UC5CK23Y												
E. UST, North wall	4/4/05	1345	Soil	C	-001	1	X	X									
E. UST, South wall	↓	↓	↓	C	-002	1	X	X									
E. UST, East wall	↓	↓	↓	C	-003	1	X	X									
E. UST, West wall	↓	↓	↓	C	-004	1	X	X									
E. UST, Floor	↓	↓	↓	G	-005	1	X	X									

parameter and method	sample bottle: type	size	pres.
1) STARS 8260 & STARS 8270			
2) (TCMASTIURO) Phase			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

Sampled by: (Please Print) FRANK WINNSLOE
Company: STB Services Inc

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☐ Dropoff
☐ OG

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	4/4/05	1700	STB Center
STB Center	4/15/05	1230	[signature]
[signature]	4/15/05	1300	Received by: (Signature)
	4/18/05	0810	Rec'd for Lab by: (Signature) [signature]

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209
Mailing: Box 289 * Syracuse, NY 13206
Albany (518) 459-3134 * Binghamton (607) 724-0478 * Buffalo (716) 649-2533
Rochester (585) 436-9070 * New Jersey (201) 343-5353 * South Carolina (864) 878-3280

Mr. Frank Minnolera
SJB/Empire Geoservices, Inc.
5167 South Park Avenue
Hamburg, NY 14075

Wednesday, May 11, 2005

RE: Honeywell UST Site - 666 Tifft Street

Order No.: U0504289

Dear Mr. Frank Minnolera:

Upstate Laboratories, Inc. received 5 sample(s) on 4/18/2005 for the analyses presented in the following report.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala
President/CEO

Upstate Laboratories, Inc.

Date: *11-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: S.E. UST-Floor
Lab Order: U0504289
Collection Date: 4/15/2005 10:30:00 AM
Project: Honeywell UST Site - 666 Tifft Street
Lab ID: U0504289-001
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **LD**
Acenaphthene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Fluorene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Phenanthrene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Anthracene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Fluoranthene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Pyrene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Benz(a)anthracene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Chrysene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Benzo(b)fluoranthene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Benzo(k)fluoranthene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Benzo(a)pyrene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Dibenz(a,h)anthracene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Benzo(g,h,i)perylene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
Indeno(1,2,3-cd)pyrene	ND	380		µg/Kg-dry	1	5/6/2005 7:25:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
1,3,5-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
4-Isopropyltoluene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
Benzene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
Ethylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
Isopropylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
m,p-Xylene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
Methyl tert-butyl ether	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
n-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
n-Propylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
Naphthalene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
o-Xylene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
sec-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
tert-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
Toluene	ND	3.5		µg/Kg-dry	1	4/27/2005 12:19:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	14.0	0.00100		wt%	1	4/30/2005

Approved By: _____ **Date:** 5/11/05

Qualifiers:

- * Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- ** Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *11-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: S.E. UST-North Wall
Lab Order: U0504289
Collection Date: 4/15/2005 10:30:00 AM
Project: Honeywell UST Site - 666 Tifft Street
Lab ID: U0504289-002
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **LD**
Acenaphthene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Fluorene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Phenanthrene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Anthracene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Fluoranthene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Pyrene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Benz(a)anthracene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Chrysene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Benzo(b)fluoranthene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Benzo(k)fluoranthene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Benzo(a)pyrene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Dibenz(a,h)anthracene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Benzo(g,h,i)perylene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
Indeno(1,2,3-cd)pyrene	ND	400		µg/Kg-dry	1	5/6/2005 8:07:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
1,3,5-Trimethylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
4-Isopropyltoluene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
Benzene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
Ethylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
Isopropylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
m,p-Xylene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
Methyl tert-butyl ether	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
n-Butylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
n-Propylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
Naphthalene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
o-Xylene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
sec-Butylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
tert-Butylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
Toluene	ND	3.6		µg/Kg-dry	1	4/27/2005 1:01:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	17.6	0.00100		wt%	1	4/30/2005

Approved By: _____ **Date:** 5/11/05

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *11-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: S.E. UST-South Wall
Lab Order: U0504289
Collection Date: 4/15/2005 10:30:00 AM
Project: Honeywell UST Site - 666 Tifft Street
Lab ID: U0504289-003
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **LD**
Acenaphthene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Fluorene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Phenanthrene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Anthracene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Fluoranthene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Pyrene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Benz(a)anthracene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Chrysene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Benzo(b)fluoranthene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Benzo(k)fluoranthene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Benzo(a)pyrene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Dibenz(a,h)anthracene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Benzo(g,h,i)perylene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
Indeno(1,2,3-cd)pyrene	ND	400		µg/Kg-dry	1	5/6/2005 8:50:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
1,3,5-Trimethylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
4-Isopropyltoluene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
Benzene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
Ethylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
Isopropylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
m,p-Xylene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
Methyl tert-butyl ether	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
n-Butylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
n-Propylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
Naphthalene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
o-Xylene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
sec-Butylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
tert-Butylbenzene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
Toluene	ND	3.6		µg/Kg-dry	1	4/27/2005 2:26:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	17.3	0.00100		wt%	1	4/30/2005

Approved By: _____ **Date:** _____

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *11-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: S.E. UST-East Wall
Lab Order: U0504289
Collection Date: 4/15/2005 10:30:00 AM
Project: Honeywell UST Site - 666 Tifft Street
Lab ID: U0504289-004
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **LD**
Acenaphthene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Fluorene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Phenanthrene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Anthracene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Fluoranthene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Pyrene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Benz(a)anthracene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Chrysene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Benzo(b)fluoranthene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Benzo(k)fluoranthene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Benzo(a)pyrene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Dibenz(a,h)anthracene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Benzo(g,h,i)perylene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
Indeno(1,2,3-cd)pyrene	ND	380		µg/Kg-dry	1	5/6/2005 9:32:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
1,3,5-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
4-isopropyltoluene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
Benzene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
Ethylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
Isopropylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
m,p-Xylene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
Methyl tert-butyl ether	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
n-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
n-Propylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
Naphthalene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
o-Xylene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
sec-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
tert-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
Toluene	ND	3.5		µg/Kg-dry	1	4/27/2005 3:09:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	13.9	0.00100		wt%	1	4/30/2005

Approved By: *[signature]* **Date:** *5-11-05*

Qualifiers:

*	Low Level	**	Value exceeds Maximum Contaminant Value
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Date: *11-May-05*

CLIENT: SJB/Empire Geoservices, Inc.
Client Sample ID: S.E. UST-West Wall
Lab Order: U0504289
Collection Date: 4/15/2005 10:30:00 AM
Project: Honeywell UST Site - 666 Tifft Street
Lab ID: U0504289-005
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE HYDROCARBONS - STARS		**SW8270C**		**(SW3550A)**		Analyst: **LD**
Acenaphthene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Fluorene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Phenanthrene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Anthracene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Fluoranthene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Pyrene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Benz(a)anthracene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Chrysene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Benzo(b)fluoranthene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Benzo(k)fluoranthene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Benzo(a)pyrene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Dibenz(a,h)anthracene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Benzo(g,h,i)perylene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
Indeno(1,2,3-cd)pyrene	ND	380		µg/Kg-dry	1	5/10/2005 10:41:00 PM
VOLATILE ORGANICS STARS LIST		**SW8260B**				Analyst: **RS**
1,2,4-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
1,3,5-Trimethylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
4-Isopropyltoluene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
Benzene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
Ethylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
Isopropylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
m,p-Xylene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
Methyl tert-butyl ether	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
n-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
n-Propylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
Naphthalene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
o-Xylene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
sec-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
tert-Butylbenzene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
Toluene	ND	3.5		µg/Kg-dry	1	4/27/2005 1:44:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **SL**
Percent Moisture	13.8	0.00100		wt%	1	4/30/2005

Approved By: _____ **Date:** _____

Qualifiers:

- `*` Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- `**` Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

649-2535 Don Clark

Upstate Laboratories, Inc.

6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

10 WORK DAYS

Client	Client Project # / Project Name
SJB Services	Honeywell Site - 666 Tiff
Client Contact: F. Minnuloza	**Phone #** 645-5811
Site Location (city/state) 666 Tiff Street Buffalo, NY	

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only (UCSC-12350)	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Remarks
SE. UST - Floor	4/15/05	1030	Soil	G	-001	(1)											
S.E. UST - North wall				C	-002	(1)											
S.E. UST - South wall				C	-003	(1)											
S.E. UST - East wall				C	-004	(1)											
S.E. UST - West wall				C	-005	(1)											

Special Turnaround Time _____ (Lab Notification required)

parameter and method	sample bottle:	type	size	pres.
1) STARS 8260 and STARS 8270				
2)				
3)				
4)				
5)				
6)				
7)				
8)				
9)				
10)				

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) Frank Minuloza

Company: SJB Services

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☐ Dropoff
☐ 00

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	4/15/05	1300	SJB Courier
SJB Courier	4/15/05	1230	[signature]
[signature]	4/15/05	1700	

Rec'd for Lab by: (Signature) [signature]

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

APPENDIX E

LIQUID DISPOSAL MANIFEST

TONAWANDA TANK TRANSPORT SERVICE, INC.

1140 MILITARY ROAD
P.O. BOX H
BUFFALO, NY 14217
(716) 873-9703

3990 U.S. ROUTE 42
MASON, OH 45040
(513) 398-6997

DATE 04/21/05

PICK UP

SHIPPER

NAME: HONEYWELL PINTO CONSTUCTION
STREET: TIFFT & HOPKINS
CITY: BUFFALO STATE: NY. ZIP CODE:
CONTACT NAME:
SCHEDULED TIME: 08:00 AM

ADDITIONAL INFORMATION:

DELIVERY

CONSIGNEE

NAME: G E M
STREET: 2700 TRANSPORT
CITY: CLEVELAND STATE: OH. ZIP CODE:
CONTACT NAME:
SCHEDULED TIME: 02:00 PM

ADDITIONAL INFORMATION:

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER	PRODUCT CODE

LOAD NUMBER	TRACTOR NUMBER	TRAILER NUMBER	DRIVER'S NAME
10504092		118	ATTEA

TYPE (CIRCLE ONE)	MATERIAL DESCRIPTION	QUANTITY
TANK (S/S) (R/L) VAC DUMP VAN ROLL-OFF FLATBED		

PICK UP

ARRIVAL TIME _____ AM/PM RELEASE TIME _____ AM/PM

TRAILER EMPTY UPON ARRIVAL ☒ YES ☐ NO
(If not, explain below)

DIP MEASUREMENT (Tankers Only) _____ INCHES

COMMENTS: (EXPLAIN ALL DELAYS) _____

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

X _____
SHIPPERS SIGNATURE

DELIVERY

DRIVER _____ DATE _____

ARRIVAL TIME _____ AM/PM RELEASE TIME _____ AM/PM

TRAILER EMPTY UPON DEPARTURE ☐ YES ☐ NO
(If not, explain below)

COMMENTS: (EXPLAIN ALL DELAYS) _____

I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.

X _____
CONSIGNEE'S SIGNATURE

OFFICE USE ONLY

DRIVER

TRIP			
TOLLS			
DEMURRAGE			
LAYOVER			
VAC			
MISC		TOTAL:	

ACCOUNTING

DRIVER'S # _____

		FREIGHT	
		TOLLS	
		DEMURRAGE	
		MISC.	
		TOTAL	

WHITE-BILLING COPY YELLOW-TON. TANK COPY PINK-ACCOUNTING COPY GREEN-DRIVER COPY BLUE-TSDF COPY GOLD-GENERATOR COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1
N / . . A		

GENERATOR

3. Generator's Name and Mailing Address
HONEYWELL
101 COLUMBIA ROAD
MORRISTOWN NJ 07962

4. Generator's Phone ( ) 973 455-4107

SITE ADDRESS:
TPT & HOPKINS
BUFFALO NY 14219

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
TONAWANDA TANK TRANSPORT	N Y D 0 9 7 6 4 4 8 0 1	(716) 873 6702
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
GENERAL ENVIRONMENTAL MANAGEMENT, LLC 2155 TRANSPORT RD CLEVELAND OH 44113	O H D 0 4 1 7 9 6 1 2	(216) 525 8762

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-REGULATED MATERIAL (DIESEL CONTAMINATED WATER)	001	TT	0.5500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
David Reed		3	12	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N / A	Manifest Doc. No. 21 2305	2. Page 1 of 1

3. Generator's Name and Mailing Address
RETWELL
301 COLUMBIA ROAD
MORRISTOWN NJ 07962
A. Generator's Phone ( ) 973 455-4107

SITE ADDRESS:
TIFT & HOPKINS
BUFFALO, NY 14220

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
TONAWANDA TANK TRANSPORT	NYD987644801	(716) 873-9705
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
GENERAL ENVIRONMENTAL MANAGEMENT, LLC 2655 TRANSPORT RD. CLEVELAND OH 44115	OHD004178612	(216) 623-8383

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-REGULATED MATERIAL (DIESEL CONTAMINATED WATER)	001	TT	0550 (est)	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a. 4317-N-L
NONE

E. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: [illegible] Signature: [signature] Month: 05 Day: 1 Year: 2005

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID ATTER Signature: [signature] Month: 05 Day: 02 Year: 05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month: Day: Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in Item 19:
Printed/Typed Name: [illegible] Signature: [signature] Month: 04 Day: 21 Year: 05

Printed by: J.KELLER & ASSOCIATES, INC.
Order No. WEA8A1 Codes:

TRANSPORTER #1

12-BLS-CS Rev. 12/98

APPENDIX F

"TANK BOTTOM" DISPOSAL

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Document No.: 08671

2. Page 1 of 1

3. Generator's Name and Mailing Address
Honeywell
101 Columbia Rd. Morristown, Nj 07962

330 Hookins St.
Buffalo, NY

4. Generator's Phone (973) 455-4107

5. Transporter 1 Company Name: Op-Tech Environmental Svcs, Inc.

6. US EPA ID Number: N Y D 9 8 6 9 8 0 7 5 3

A. State Transporter's ID: 2030515

B. Transporter 1 Phone: 716-873-7640

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
Cycle Chem, Inc
550 Industrial Drive
Lewisberry, Pa 17339

10. US EPA ID Number: P A D 0 6 7 0 9 8 3 2 2

E. State Facility's ID:

F. Facility's Phone: 717-938-4700

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON DOT Regulated Liquids, NOS (Oily sludge)	6	DM	330	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
a.) OPT004-A-LS

Job # FAM10001 PO # FAM10001-01

H. Handling Codes for Wastes Listed Above
a.) L

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-255-3924

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month Day Year)
Doug Weaver		5 3 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)

GENERATOR / TRANSPORTER / FACILITY

APPENDIX G

STEEL UST DISPOSAL MANIFEST

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 347919

Section I. GENERATOR (Generator completes all of Section I.)

a. Generator Name: HARKWELL
b. Generating Location: SAME
c. Address: 320 HOPKINS ST. BUFFALO, NY 14220
d. Address:
e. Phone No.: 716-927-6294
f. Phone No.:

If name or address of the generating facility differs from the generator, provide:

g. Name:
h. Owner's Phone No.:

i. WASTE CODE: 407 155462
j. Containers:
k. Description of Waste: 7.65 TONS STEEL SCRAP 716>- DIESEL
Quantity: 30 Units: Y No.: 1 TYPE: T

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL. PLASTIC BAG or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS
M³ - CUBIC METERS
Y³ - CUBIC YARDS
O - OTHER

l. GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator or Authorized Agent Name | Signature | Shipment Date

Section II TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I

a. Name: DELAWARE VALLEY INC.
b. Address: 221 [illegible] RD.
[illegible] NJ 14217
e. Driver Name / Title: (PRINT / TYPE)
f. Phone No.: 716-874-3333 g. Truck No.:
h. License No. / State:

Acknowledgement of Receipt of Materials.

Signature | Shipment Date

TRANSPORTER II

h. Name:
i. Address:
j. Driver Name / Title: (PRINT / TYPE)
k. Phone No.: l. Truck No.:
m. Vehicle License No. / State:

Acknowledgement of Receipt of Materials.

n. Driver Signature | Shipment Date

Section III DESTINATION (Generator completes a-d, destination site completes e-f)

a. Name: [illegible] LANDFILL
c. Phone No.: 716-[illegible]-3345
b. Physical Address: [illegible] ELMA
d. Mailing Address:
[illegible] Falls, NY 14304

Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent | Signature | Receipt Date

Section IV ASBESTOS (Generator complete a-d, f, g, Operator * completes e.)

a. Operators * Name:
b. Operators * Phone No.:
c. Operators * Address:

Special Handling Instructions and additional information:

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operators * Name & Title: (Print / Type) | Operators * Signature | Date

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 347920

I. GENERATOR (Generator completes all of Section I.

erator Name: Honeywell
: 300 Hopkins St.
Buffalo NY 14220
io.: 716-927-1334

b. Generating Location: SAME
d. Address:
f. Phone No.:

he generating facility differs from the generator, provide:

Name:
h. Owner's Phone No.:

VASTE CODE: L27 Y5 S5 4 6 2
Containers:

on of Waste: 5.92 TONS
STEEL STRAIN [illegible] DIESEL

k. Quantity: 5.92 | Units: Y | No: 1 | TYPE: T

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL PLASTIC BAG or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS
M^3 - CUBIC METERS
Y^3 - CUBIC YARDS
O - OTHER

= OR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or able state law, has been properly described, classified and packaged, and is in proper condition for transportation according to ate regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal tions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a ic waste as defined by 40 CFR Part 261.

tor Authorized Agent Name | Signature | Shipment Date

TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I

[illegible]

e / Title: PRINT / TYPE
No.: [illegible] e. Truck No.:

ense No. / State:
dgement of Receipt of Materials.

e | Shipment Date

TRANSPORTER II

h. Name:
Address:
j. Driver Name / Title: PRINT / TYPE
k. Phone No.: l. Truck No.:
m. Vehicle License No. / State:
Acknowledgement of Receipt of Materials.
n. Driver Signature | Shipment Date

DESTINATION (Generator completes a-d, destination site completes e-f.)

[illegible]
c. Phone No
ddress:
d. Mailing Address

y Indication Space:

certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate

Authorized Agent | Signature | Receipt Date

ASBESTOS (Generator complete a-d, f, g, Operator * completes e.)

Name:
b. Operator's * Phone No.:
* Address:
ding Instructions and additional information:

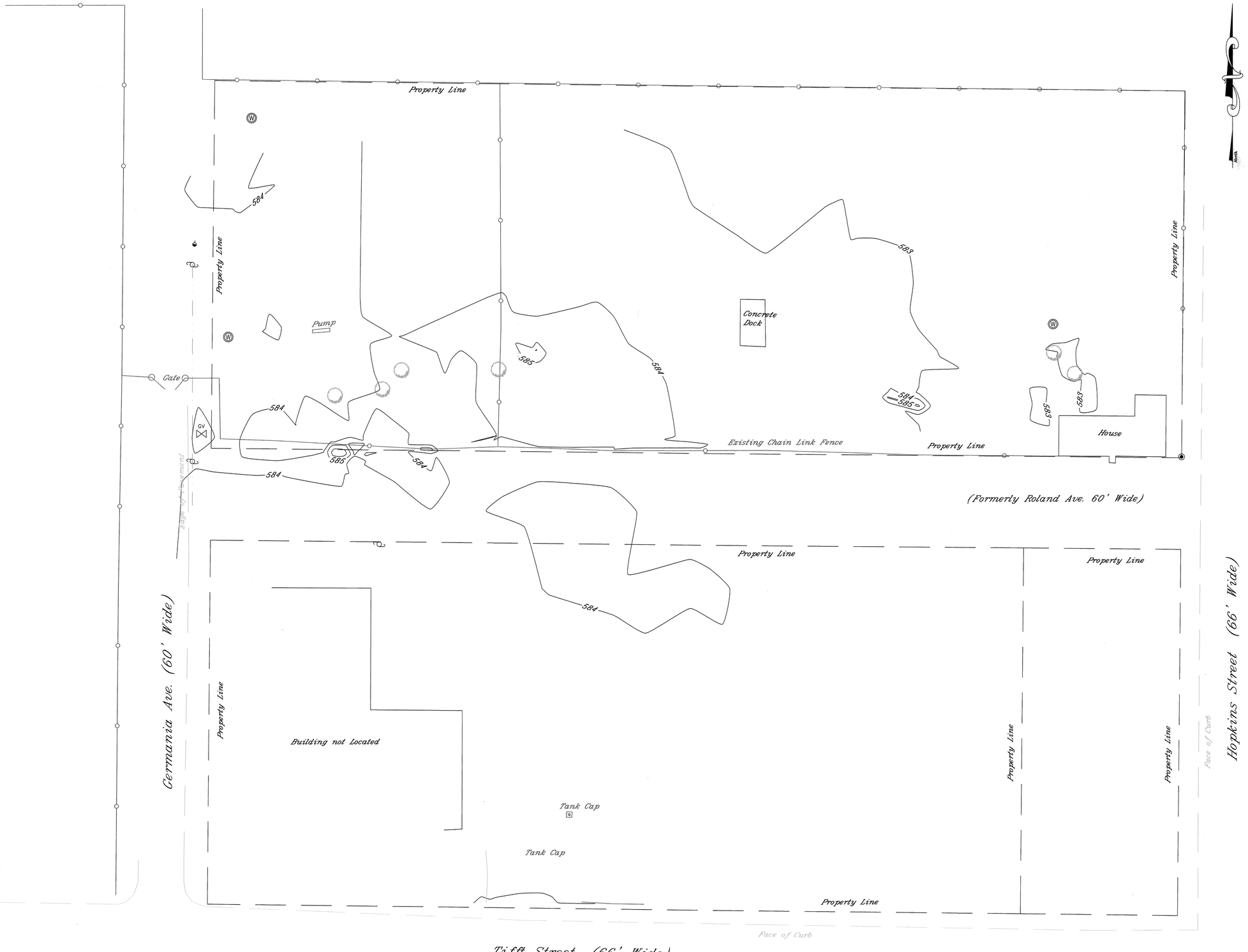
CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

ame & Title: Print / Type | Operator's * Signature

Address

APPENDIX F

AS-BUILT DRAWINGS



General Notes

Legend:
- IP Found
- Set 1/2" Rebar w/cap
- Utility Pole
- Pole Anchor
- D Deeded
- M Measured
- W Monitoring Well
- ×582.00 Spot Elevation
- GV Gas Valve
- Tree

Notes:
This as - built survey drawing dated June 10, 2005, was prepared from an instrument survey, with field work completed on February 10, 2005.

It is a violation of New York State Education Law for any person, unless acting under the direction of a licensed surveyor, to alter an item in any way.

Only copies of this survey marked with an original signature and an original embossed or ink seal are the product of the land surveyor.

This map of as-built survey was prepared for vertical depth verification. Vertical datum refers to: NGVD 1929 Horizontal Datum refers to: NYS Plane Coordinates, West Zone, NAD 1927

No Boundary determination are made or implied by this survey. Property lines shown are approximate.

Only visible utility services and/or encumbrances were located and shown.

Remove not the ancient landmark, which thy fathers have set. Prov. 22:28
Cursed be he that removeth his neighbor's landmark. And the people shall say Amen. Deuteronomy 27:17

Survey by William J Tucker, II PLS #50369
Clear Creek Land Surveying, L.L.C.
P.O. Box 435, Springville, N.Y. 14141
Phone 716-592-5800 Fax 716-592-5566

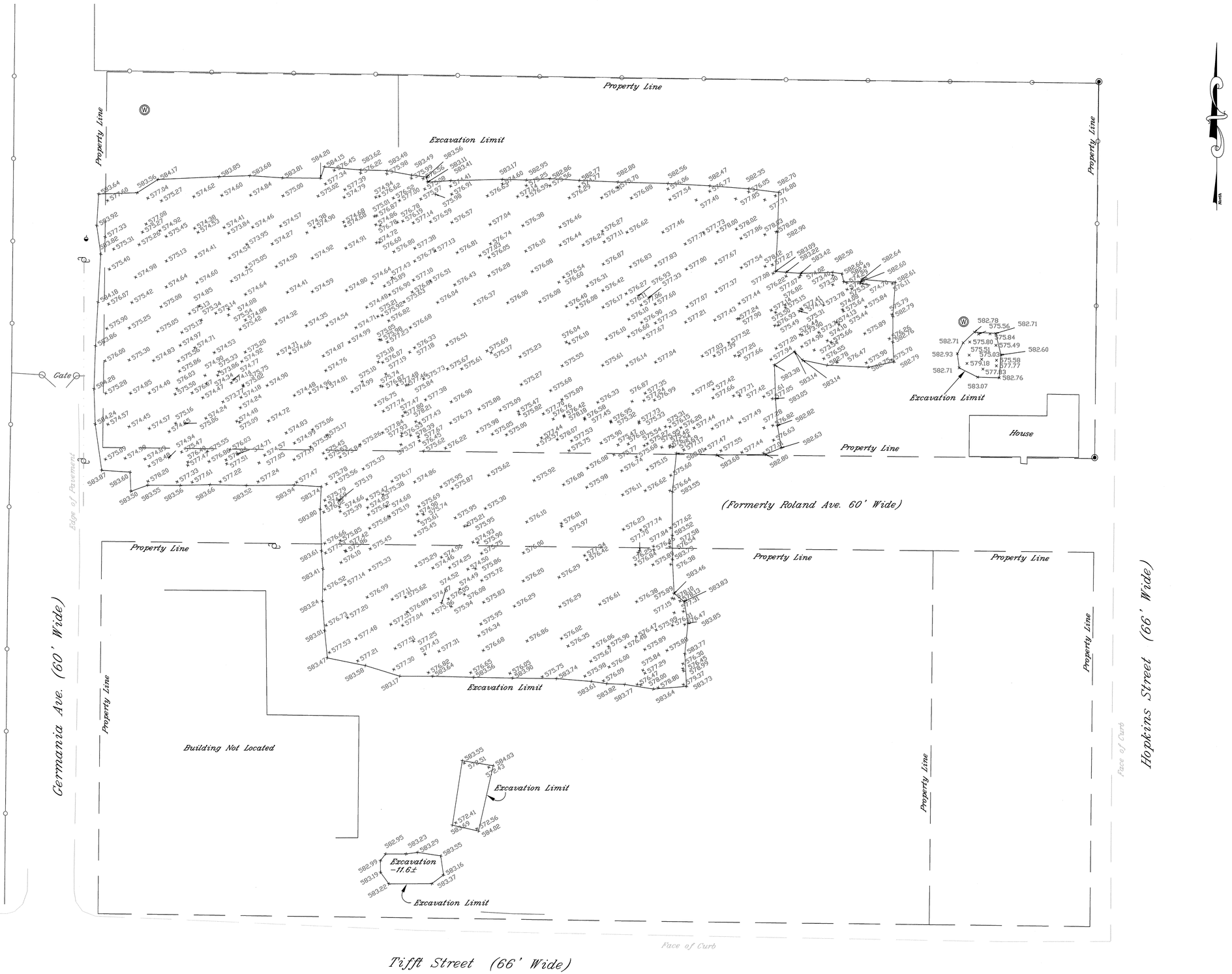
STATE OF NEW YORK WILLIAM J. TUCKER II LICENSED LAND SURVEYOR 050369

No.	Revision/Issue	Date

Firm Name and Address
Clear Creek Land Surveying, LLC
PO Box 435
Springville, NY 14141
ph. 716-592-5800
fax 716-592-5566

Project Name and Address
Tifft and Hopkins Site
NYS DEC No. 915131
Record Drawing:
Original Ground
Tug Hill Construction Co.

Project	Sheet
T-407-130 / 05-014	1 of 3
Date: June 10, 2005	
Scale: 1 Inch = 30 Feet	



General Notes

Legend:
- IP Found
- Set 1/2" Rebar w/cap
- Utility Pole
- Pole Anchor
- D Deeded
- M Measured
- Monitoring Well
- × 582.00 Spot Elevation

Notes:
This as - built survey drawing dated June 10, 2005, was prepared from an instrument survey, with field work completed on March 10, 2005.

It is a violation of New York State Education Law for any person, unless acting under the direction of a licensed surveyor, to alter an item in any way.

Only copies of this survey marked with an original signature and an original embossed or ink seal are the product of the land surveyor.

This map of as-built survey was prepared for vertical depth certification. Vertical datum refers to: NGVD 1929 Horizontal Datum refers to: NYS Plane Coordinates, West Zone, NAD 1983. No Boundary determination are made or implied by this survey.

Only visible utility services and/or encumbrances were located and shown.

Remove not the ancient landmark, which thy fathers have set. Prov. 22:28
Cursed be he that removeth his neighbor's landmark. And the people shall say Amen. Deuteronomy 27:17

Survey by William J Tucker, II PLS #50369
Clear Creek Land Surveying, L.L.C.
P.O. Box 435 Springville, N.Y. 14141
Phone 716-592-5800 Fax 716-592-5566

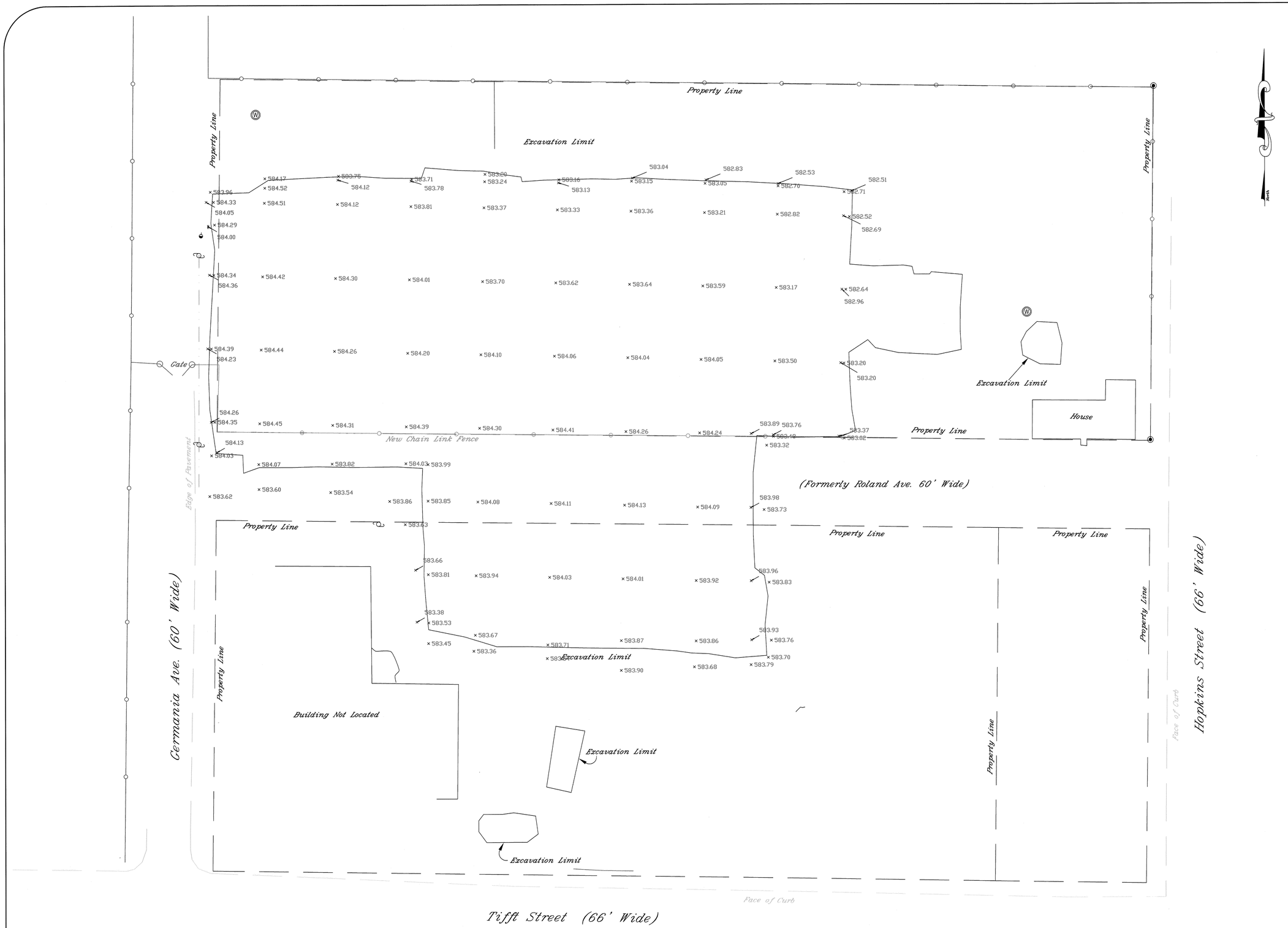
STATE OF NEW YORK · WILLIAM J. TUCKER · 050369 · LICENSED LAND SURVEYOR

No.	Revision/Issue	Date

Firm Name and Address
Clear Creek Land Surveying, LLC
PO Box 435
Springville, NY 14141
ph. 716-592-5800
fax 716-592-5566

Project Name and Address
Tifft and Hopkins Site
NYS DEC No. 915131
Record Drawing:
Bottom of Excavation
Tug Hill Construction Co.

Project: *T-407-130 / 05-014*	Sheet: *2 of 3*
Date: *June 10, 2005*	
Scale: *1 Inch = 30 Feet*	



General Notes

Legend:
- IP Found
- Set 1/2" Rebar w/cap
- Utility Pole
- Pole Anchor
- D Deeded
- M Measured
- (W) Monitoring Well
- × 582.00 Spot Elevation

Notes:
This as - built survey drawing dated June 10, 2005, was prepared from an instrument survey, with field work completed on June 7, 2005.

It is a violation of New York State Education Law for any person, unless acting under the direction of a licensed surveyor, to alter an item in any way.

Only copies of this survey marked with an original signature and an original embossed or ink seal are the product of the land surveyor.

This map of as-built survey was prepared for vertical depth verification. Vertical datum refers to: NGVD 1929 Horizontal Datum refers to: NYS Plane Coordinates, West Zone, NAD 1983. No Boundary determination are made or implied by this survey.

Only visible utility services and/or encumbrances were located and shown.

Remove not the ancient landmark, which thy fathers have set. Prov. 22:28
Cursed be he that removeth his neighbor's landmark. And the people shall say Amen. Deuteronomy 27:17

Survey by William J Tucker, II PLS #50369
Clear Creek Land Surveying, L.L.C.
P.O. Box 435, Springville, N.Y. 14141
Phone 716-592-5800 Fax 716-592-5566

STATE OF NEW YORK · WILLIAM J. TUCKER II · 050369 · LICENSED LAND SURVEYOR

No.	Revision/Issue	Date

Firm Name and Address
Clear Creek Land Surveying, LLC
PO Box 435
Springville, NY 14141
ph. 716-592-5800
fax 716-592-5566

Project Name and Address
Tifft and Hopkins Site
NYS DEC No. 915131
Record Drawing:
Final Site Plan
Tug Hill Construction Co.

Project: T-407-130 / 05-014	Sheet: 3 of 3
Date: June 10, 2005	
Scale: 1 Inch = 30 Feet	

APPENDIX G

LABORATORY ANALYTICAL DATA

ANALYTICAL REPORT

Job#: A05-1819

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/04/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5181901	SW-1	03/01/2005	13:30	03/01/2005	15:15

METHODS SUMMARY

Job#: A05-1819

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-1819

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-1819
Sample Cooler(s) were received at the following temperature(s); 15.8 NOICE °C
Samples were received at a temperature of >10°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

Sample SW-1 was analyzed using medium level techniques due to high concentrations of non-target analytes.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
SW-1	A5181901	8270	10.00	004

Dilution Code Definition:

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		SW-1							
Job No	Lab ID	A05-1819	A5181901						
Sample Date		03/01/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	820 J	920	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	230 J	920	NA		NA		NA	
Chlorobenzene	UG/KG	1300	920	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	290 J	920	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	84	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	89	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	82	50-200	NA		NA		NA	
Toluene-D8	%	103	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	105	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	86	61-136	NA		NA		NA	

9/30

Client ID		SW-1							
Job No	Lab ID	A05-1819	A5181901						
Sample Date		03/01/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	2200 J	4800	NA		NA		NA	
Nitrobenzene	UG/KG	ND	4800	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	99	50-200	NA		NA		NA	
Naphthalene-D8	%	102	50-200	NA		NA		NA	
Acenaphthene-D10	%	108	50-200	NA		NA		NA	
Phenanthrene-D10	%	108	50-200	NA		NA		NA	
Chrysene-D12	%	113	50-200	NA		NA		NA	
Perylene-D12	%	140	50-200	NA		NA		NA	
Nitrobenzene-D5	%	87	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	91	36-138	NA		NA		NA	
p-Terphenyl-d14	%	83	41-167	NA		NA		NA	
Phenol-D5	%	80	34-120	NA		NA		NA	
2-Fluorophenol	%	66	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	85	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-1							
Job No	Lab ID	A05-1819	A5181901						
Sample Date		03/01/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	256	1.2	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Chronology and QC Summary Package

Client ID		Extractor Blank		VBLK71					
Job No	Lab ID	A05-1819	A5181902	A05-1819	A5B0279804				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	610	ND	620	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	610	ND	620	NA		NA	
Chlorobenzene	UG/KG	ND	610	ND	620	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	610	ND	620	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	88	50-200	82	50-200	NA		NA	
1,4-Difluorobenzene	%	96	50-200	88	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	81	50-200	76	50-200	NA		NA	
Toluene-D8	%	103	71-125	104	71-125	NA		NA	
p-Bromofluorobenzene	%	104	68-124	106	68-124	NA		NA	
1,2-Dichloroethane-D4	%	84	61-136	86	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB71							
Job No	Lab ID	A05-1819	A5B0279803						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	6200	620	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	6300	620	NA		NA		NA	
Chlorobenzene	UG/KG	6800	620	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	5800	620	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	95	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	98	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	102	50-200	NA		NA		NA	
Toluene-D8	%	103	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	114	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	86	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		S Blank							
Job No	Lab ID	A05-1819	A5B0268803						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	NA		NA		NA	
Nitrobenzene	UG/KG	ND	320	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	98	50-200	NA		NA		NA	
Naphthalene-D8	%	102	50-200	NA		NA		NA	
Acenaphthene-D10	%	105	50-200	NA		NA		NA	
Phenanthrene-D10	%	109	50-200	NA		NA		NA	
Chrysene-D12	%	102	50-200	NA		NA		NA	
Perylene-D12	%	109	50-200	NA		NA		NA	
Nitrobenzene-D5	%	77	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	81	36-138	NA		NA		NA	
p-Terphenyl-d14	%	97	41-167	NA		NA		NA	
Phenol-D5	%	72	34-120	NA		NA		NA	
2-Fluorophenol	%	64	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	98	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A05-1819 A5B0268801		Matrix Spike Blk Dup A05-1819 A5B0268802					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	ND	330	NA		NA	
Nitrobenzene	UG/KG	ND	320	ND	330	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	102	50-200	107	50-200	NA		NA	
Naphthalene-D8	%	103	50-200	110	50-200	NA		NA	
Acenaphthene-D10	%	106	50-200	115	50-200	NA		NA	
Phenanthrene-D10	%	107	50-200	116	50-200	NA		NA	
Chrysene-D12	%	101	50-200	109	50-200	NA		NA	
Perylene-D12	%	111	50-200	118	50-200	NA		NA	
Nitrobenzene-D5	%	84	30-127	77	30-127	NA		NA	
2-Fluorobiphenyl	%	86	36-138	78	36-138	NA		NA	
p-Terphenyl-d14	%	105	41-167	99	41-167	NA		NA	
Phenol-D5	%	75	34-120	70	34-120	NA		NA	
2-Fluorophenol	%	66	26-120	62	26-120	NA		NA	
2,4,6-Tribromophenol	%	111	42-140	102	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-1819	A5B0271402						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS CLP Soils							
Job No	Lab ID	A05-1819	A5B0271401						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	101	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK71 MSB71
Lab Sample ID: A5B0279804 A5B0279803

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	6851	6250	110	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0271402 A5B0271401

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	100.8	105.0	96	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	SW-1				
Job No & Lab Sample ID	A05-1819 A5181901				
Sample Date	03/01/2005 13:30				
Received Date	03/01/2005 15:15				
Extraction Date					
Analysis Date	03/02/2005 21:12				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	SOIL MED				
Dilution Factor	1.0				
Sample wt/vol	4.06 GRAMS				
% Dry	66.99				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	MSB71				
Job No & Lab Sample ID	A05-1819 A5B0279803				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/02/2005 18:04				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL MED				
Dilution Factor	1.0				
Sample wt/vol	4.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	Extractor Blank A05-1819 A5181902	VBLK71 A05-1819 A5B0279804			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/02/2005 19:25	03/02/2005 18:58			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL MED	SOIL MED			
Dilution Factor	1.0	1.0			
Sample wt/vol	4.12 GRAMS	4.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID	SW-1				
Job No & Lab Sample ID	A05-1819 A5181901				
Sample Date	03/01/2005 13:30				
Received Date	03/01/2005 15:15				
Extraction Date	03/01/2005 14:00				
Analysis Date	03/02/2005 16:39				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	10.0				
Sample wt/vol	30.34 GRAMS				
% Dry	67.75				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-1819 A5B0268801	Matrix Spike Blk Dup A05-1819 A5B0268802			
Sample Date					
Received Date					
Extraction Date	03/01/2005 14:00	03/01/2005 14:00			
Analysis Date	03/02/2005 15:20	03/02/2005 15:46			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	30.93 GRAMS	30.33 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	S Blank A05-1819 A5B0268803				
Sample Date					
Received Date					
Extraction Date	03/01/2005 14:00				
Analysis Date	03/02/2005 16:13				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.79 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5181901	SW-1	MG/KG	Lead - Total	6010	1.00	03/01/2005 13:30	03/01 13:30	NA	NA	03/02 16:05	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0271402	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 13:30	NA	NA	03/02 15:11	Yes	SOIL
A5B0271401	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 13:30	NA	NA	03/02 15:15	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
HONEYWELL c/o PARSONS	J. POULSEN	3/1/05	191061
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
180 Lawrence Bell Dr.	716 633 7074		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Williamsville / NY / 14221	J Poulsen	B. Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
Tifft & Hopkins IRM			
Contract/Purchase Order/Quote No.			
NY0AB578			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: HON COC's	Lead.	Special Instructions/ Conditions of Receipt
SW-1	3/1/05	1330				X	X						X	X	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/1/05	1515	1. Received By	03/01/05	1515
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

15.0°C

NO ICE

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

30/30

ANALYTICAL REPORT

Job#: A05-1883

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/08/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5188301	SW-2	03/02/2005	16:00	03/02/2005	18:00

METHODS SUMMARY

Job#: A05-1883

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-1883

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-1883
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
SW-2	A5188301	8270	2.00	002

Dilution Code Definition:

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		SW-2							
Job No	Lab ID	A05-1883	A5188301						
Sample Date		03/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	1000	950	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	950	NA		NA		NA	
Chlorobenzene	UG/KG	9200	950	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	950	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	96	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	96	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	86	50-200	NA		NA		NA	
Toluene-D8	%	96	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	99	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	82	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-2							
Job No	Lab ID	A05-1883	A5188301						
Sample Date		03/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	710 J	1000	NA		NA		NA	
Nitrobenzene	UG/KG	ND	1000	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	91	50-200	NA		NA		NA	
Naphthalene-D8	%	93	50-200	NA		NA		NA	
Acenaphthene-D10	%	93	50-200	NA		NA		NA	
Phenanthrene-D10	%	96	50-200	NA		NA		NA	
Chrysene-D12	%	92	50-200	NA		NA		NA	
Perylene-D12	%	104	50-200	NA		NA		NA	
Nitrobenzene-D5	%	92	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	89	36-138	NA		NA		NA	
p-Terphenyl-d14	%	96	41-167	NA		NA		NA	
Phenol-D5	%	87	34-120	NA		NA		NA	
2-Fluorophenol	%	74	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	105	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-2							
Job No	Lab ID	A05-1883	A5188301						
Sample Date		03/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	43.1	1.3	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Date: 03/08/2005 08:00:59
Batch No: A5B02799

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5183401 A5183401MS A5183401SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
STANTEC - 6010 RCRA METALS - S												
STANTEC - TOTAL ARSENIC 6010 - S	MG/KG	17.76	30.96	27.65	21.92	22.52	60 *	44 *	52	31 *	20.0	80-120
STANTEC - TOTAL BARIUM 6010 - S	MG/KG	32.07	45.34	42.16	21.92	22.52	60 *	45 *	53	28 *	20.0	80-120
STANTEC - TOTAL CADMIUM 6010 - S	MG/KG	0.869	20.75	22.25	21.92	22.52	91	95	93	4	20.0	80-120
STANTEC - TOTAL CHROMIUM 6010 - S	MG/KG	11.97	30.86	29.13	21.92	22.52	86	76 *	81	12	20.0	80-120
STANTEC - TOTAL LEAD 6010 - S	MG/KG	26.65	39.46	35.88	21.92	22.52	58 *	41 *	50	34 *	20.0	80-120
STANTEC - TOTAL SELENIUM 6010 - S	MG/KG	0	17.60	20.33	21.92	22.52	80	90	85	12	20.0	80-120
STANTEC - TOTAL SILVER 6010 - S	MG/KG	0.204	4.77	5.24	5.48	5.63	83	90	87	8	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		METHANOL BLK 030305		VBLK72					
Job No	Lab ID	A05-1883	A5188302	A05-1883	A5B0281602				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	620	ND	620	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	620	ND	620	NA		NA	
Chlorobenzene	UG/KG	ND	620	ND	620	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	620	ND	620	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	87	50-200	80	50-200	NA		NA	
1,4-Difluorobenzene	%	94	50-200	88	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	78	50-200	78	50-200	NA		NA	
Toluene-D8	%	101	71-125	101	71-125	NA		NA	
p-Bromofluorobenzene	%	101	68-124	106	68-124	NA		NA	
1,2-Dichloroethane-D4	%	86	61-136	87	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB72							
Job No	Lab ID	A05-1883	A5B0281601						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	5900	620	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	5900	620	NA		NA		NA	
Chlorobenzene	UG/KG	6800	620	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	5500	620	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	94	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	99	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	102	50-200	NA		NA		NA	
Toluene-D8	%	100	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	113	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	82	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-1883	A5B0282102						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	102	50-200	NA		NA		NA	
Naphthalene-D8	%	103	50-200	NA		NA		NA	
Acenaphthene-D10	%	101	50-200	NA		NA		NA	
Phenanthrene-D10	%	104	50-200	NA		NA		NA	
Chrysene-D12	%	98	50-200	NA		NA		NA	
Perylene-D12	%	106	50-200	NA		NA		NA	
Nitrobenzene-D5	%	86	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	83	36-138	NA		NA		NA	
p-Terphenyl-d14	%	98	41-167	NA		NA		NA	
Phenol-D5	%	76	34-120	NA		NA		NA	
2-Fluorophenol	%	68	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	98	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-1883	A5B0282101						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	NA		NA		NA	
Nitrobenzene	UG/KG	ND	320	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	111	50-200	NA		NA		NA	
Naphthalene-D8	%	113	50-200	NA		NA		NA	
Acenaphthene-D10	%	110	50-200	NA		NA		NA	
Phenanthrene-D10	%	111	50-200	NA		NA		NA	
Chrysene-D12	%	99	50-200	NA		NA		NA	
Perylene-D12	%	113	50-200	NA		NA		NA	
Nitrobenzene-D5	%	81	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	79	36-138	NA		NA		NA	
p-Terphenyl-d14	%	96	41-167	NA		NA		NA	
Phenol-D5	%	73	34-120	NA		NA		NA	
2-Fluorophenol	%	66	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	94	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-1883 A5B0279902							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS CLP Soils							
Job No	Lab ID	A05-1883	A5B0279901						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	94.5	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK72 MSB72
Lab Sample ID: A5B0281602 A5B0281601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	6830	6250	109	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0279902 A5B0279901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	94.52	105.0	90	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	SW-2				
Job No & Lab Sample ID	A05-1883 A5188301				
Sample Date	03/02/2005 16:00				
Received Date	03/02/2005 18:00				
Extraction Date					
Analysis Date	03/03/2005 15:44				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	SOIL MED				
Dilution Factor	1.0				
Sample wt/vol	4.09 GRAMS				
% Dry	64.60				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	MSB72				
Job No & Lab Sample ID	A05-1883 A5B0281601				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/03/2005 10:20				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL MED				
Dilution Factor	1.0				
Sample wt/vol	4.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	METHANOL BLK 030305 A05-1883 A5188302	VBLK72 A05-1883 A5B0281602			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/03/2005 15:17	03/03/2005 11:14			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL MED	SOIL MED			
Dilution Factor	1.0	1.0			
Sample wt/vol	4.01 GRAMS	4.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SW-2 A05-1883 A5188301				
Sample Date	03/02/2005 16:00				
Received Date	03/02/2005 18:00				
Extraction Date	03/03/2005 14:00				
Analysis Date	03/04/2005 11:14				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	2.0				
Sample wt/vol	30.33 GRAMS				
% Dry	64.82				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-1883 A5B0282101				
Sample Date					
Received Date					
Extraction Date	03/03/2005 14:00				
Analysis Date	03/04/2005 10:21				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.51 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID	SBLK				
Job No & Lab Sample ID	A05-1883 A5B0282102				
Sample Date					
Received Date					
Extraction Date	03/03/2005 14:00				
Analysis Date	03/04/2005 10:47				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.04 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5188301	SW-2	MG/KG	Lead - Total	6010	1.00	03/02/2005 16:00	03/02 18:00	NA	NA	03/03 18:11	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0279902	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 18:00	NA	NA	03/03 16:37	Yes	SOIL
A5B0279901	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 18:00	NA	NA	03/03 16:41	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Honeywell	Mark Raybuck	3/2/05	191060
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
c/o Parsons 180 Lawrence Bell Dr.	716 6337074 716 633 7195		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Williamsville NY 14221	J. Poulsen	B. Fischer	
Project Name and Location (State)	**Carrier/Waybill Number**		
Tiff Hopkins NY			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: HSW Cocs	Lead	VOCs	SVOCs	PEST	METALS	Special Instructions/ Conditions of Receipt
SW-2	3/2/05	1600				X	X						X	X					2 BD
CONWATER-1	3/2/05	1630		X			X		X	X					✓	✓	✓	✓	3 BD

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 28 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/2/05	1900	1. Received By	3/2/05	1900
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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ANALYTICAL REPORT

Job#: A05-1884

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/09/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5188401	CONWATER-1	03/02/2005	16:30	03/02/2005	18:00

METHODS SUMMARY

Job#: A05-1884

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
METHOD 624 - AQ - TIFFT & HOPKINS SELECT LIST VOA	CFR136 624
HONEYWELL-625 - 4-CHLOROANILINE/NAPTHALENE	CFR136 625
METHOD 608 - TIFFT & HOPKINS SELECT PESTICIDES	CFR136 608
Aluminum - Total	MCAWW 200.7
Antimony - Total	MCAWW 200.7
Arsenic - Total	MCAWW 200.7
Barium - Total	MCAWW 200.7
Cadmium - Total	MCAWW 200.7
Chromium - Total	MCAWW 200.7
Copper - Total	MCAWW 200.7
Lead - Total	MCAWW 200.7
Mercury - Total	MCAWW 245.1
Nickel - Total	MCAWW 200.7
Zinc - Total	MCAWW 200.7
Cyanide - Total	MCAWW 335.2

CFR136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office of Water.

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

NON-CONFORMANCE SUMMARY

Job#: A05-1884

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-1884
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
No T CN analysis was requested on the chain of custody, however, T CN was assigned as per discussion with the client.

The volume for T CN analysis was poured off from the organic volume provided and preserved with 2 mls NaOH Lot#4078 Baker.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested reporting limits are below STL's standard reporting limit. It must be noted that results reported below STL's standard reporting limit may result in false positive/false negative results, less accurate quantitation and potential misidentification at the lower concentrations. Therefore, no corrective action has been taken for any detections between the requested reporting limit and STLs standard reporting limit.

GC Extractable Data

For method 608, the recovery of surrogate Tetrachloro-m-xylene in sample CONWATER-1 is outside of established quality control limits due to the sample matrix and dilution. The recovery of surrogate Decachlorobiphenyl is within quality control criteria; no corrective action is required.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

****

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

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
CONWATER-1	A5188401	608	5.00	006
CONWATER-1	A5188401	624	5.00	003
CONWATER-1	A5188401DL	625	10.00	008

Dilution Code Definition:

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		CONWATER-1							
Job No	Lab ID	A05-1884	A5188401						
Sample Date		03/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/L	ND	5.5	NA		NA		NA	
Chlorobenzene	UG/L	190	4.5	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	33	4.2	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	4.8	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	5.3	3.8	NA		NA		NA	
Toluene	UG/L	ND	6.1	NA		NA		NA	
SURROGATE(S)									
Toluene-D8	%	99	86-110	NA		NA		NA	
p-Bromofluorobenzene	%	100	67-127	NA		NA		NA	
1,2-Dichloroethane-D4	%	106	79-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		CONWATER-1		CONWATER-1					
Job No	Lab ID	A05-1884	A5188401	A05-1884	A5188401DL				
Sample Date		03/02/2005		03/02/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/L	160 E	5.0	310 D	50	NA		NA	
Naphthalene	UG/L	9.5	3.5	ND	35	NA		NA	
IS/SURROGATE(S)									
Phenanthrene-D10	%	93	50-200	92	50-200	NA		NA	
Naphthalene-D8	%	92	50-200	83	50-200	NA		NA	
Perylene-D12	%	106	50-200	106	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	91	50-200	82	50-200	NA		NA	
Acenaphthene-D10	%	97	50-200	88	50-200	NA		NA	
Chrysene-D12	%	95	50-200	116	50-200	NA		NA	
Nitrobenzene-D5	%	68	24-120	77	24-120	NA		NA	
2-Fluorobiphenyl	%	76	32-120	91	32-120	NA		NA	
p-Terphenyl-d14	%	79	33-123	90	33-123	NA		NA	
Phenol-D5	%	26	10-120	30	10-120	NA		NA	
2-Fluorophenol	%	35	15-120	40	15-120	NA		NA	
2,4,6-Tribromophenol	%	87	36-136	95	36-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		CONWATER-1							
Job No	Lab ID	A05-1884	A5188401						
Sample Date		03/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Endosulfan I	UG/L	ND	0.025	NA		NA		NA	
Endosulfan II	UG/L	ND	0.025	NA		NA		NA	
Heptachlor epoxide	UG/L	ND	0.025	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	542 *	22-119	NA		NA		NA	
Decachlorobiphenyl	%	135	30-135	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		CONWATER-1							
Job No	Lab ID	A05-1884	A5188401						
Sample Date		03/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/L	0.54	0.20	NA		NA		NA	
Antimony - Total	MG/L	0.025	0.020	NA		NA		NA	
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Barium - Total	MG/L	0.16	0.0020	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Chromium - Total	MG/L	0.012	0.0040	NA		NA		NA	
Copper - Total	MG/L	ND	0.010	NA		NA		NA	
Lead - Total	MG/L	0.076	0.0050	NA		NA		NA	
Mercury - Total	MG/L	0.00038	0.00020	NA		NA		NA	
Nickel - Total	MG/L	ND	0.010	NA		NA		NA	
Zinc - Total	MG/L	0.035	0.020	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		CONWATER-1							
Job No	Lab ID	A05-1884	A5188401						
Sample Date		03/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	MG/L	ND	0.010	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5180801 A5180801MS A5180801SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
METHOD 624 - OUTFALL 01A WEEKLY VOLATILE												
Chloroform	UG/L	0	22.5	22.9	20.0	20.0	112	115	114	3	23.0	81-123
1,1-Dichloroethane	UG/L	0	22.2	22.7	20.0	20.0	111	114	113	3	15.0	72-133
1,2-Dichloroethane	UG/L	0	21.8	22.5	20.0	20.0	109	113	111	4	15.0	78-121
1,1-Dichloroethene	UG/L	0	22.9	23.3	20.0	20.0	114	117	116	2	15.0	71-132
trans-1,2-Dichloroethene	UG/L	0	23.5	23.7	20.0	20.0	118	118	118	0	15.0	72-133
Methylene chloride	UG/L	0	22.0	22.7	20.0	20.0	110	114	112	4	23.0	61-135
1,1,1-Trichloroethane	UG/L	0	23.1	23.8	20.0	20.0	116	119	118	2	15.0	75-123
Trichloroethene	UG/L	1.26	24.2	24.5	20.0	20.0	115	116	116	0.	17.0	76-122
Vinyl chloride	UG/L	0	21.2	21.4	20.0	20.0	106	107	107	0.	15.0	62-136

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Date: 03/09/2005 11:13:55
Batch No: A5B02800

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5188816 A5188816MS A5188816SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
MERCURY ANALYSIS												
TOTAL MERCURY	UG/L	0	5.33	5.30	6.66	6.66	80	79 *	80	1	20.0	80-120

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Client ID		VBLK67							
Job No	Lab ID	A05-1884	A5B0283002						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/L	ND	1.1	NA		NA		NA	
Chlorobenzene	UG/L	ND	0.90	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	0.85	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	0.96	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	0.76	NA		NA		NA	
Toluene	UG/L	ND	1.2	NA		NA		NA	
SURROGATE(S)									
Toluene-D8	%	98	86-110	NA		NA		NA	
p-Bromofluorobenzene	%	97	67-127	NA		NA		NA	
1,2-Dichloroethane-D4	%	99	79-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS67							
Job No	Lab ID	A05-1884	A5B0283001						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/L	21	1.1	NA		NA		NA	
Chlorobenzene	UG/L	21	0.90	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	21	0.85	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	21	0.96	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	21	0.76	NA		NA		NA	
Toluene	UG/L	21	1.2	NA		NA		NA	
SURROGATE(S)									
Toluene-D8	%	99	86-110	NA		NA		NA	
p-Bromofluorobenzene	%	99	67-127	NA		NA		NA	
1,2-Dichloroethane-D4	%	99	79-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-1884	A5B0281703						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/L	ND	5.1	NA		NA		NA	
Naphthalene	UG/L	ND	3.5	NA		NA		NA	
IS/SURROGATE(S)									
Phenanthrene-D10	%	111	50-200	NA		NA		NA	
Naphthalene-D8	%	101	50-200	NA		NA		NA	
Perylene-D12	%	123	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	100	50-200	NA		NA		NA	
Acenaphthene-D10	%	107	50-200	NA		NA		NA	
Chrysene-D12	%	138	50-200	NA		NA		NA	
Nitrobenzene-D5	%	76	24-120	NA		NA		NA	
2-Fluorobiphenyl	%	80	32-120	NA		NA		NA	
p-Terphenyl-d14	%	82	33-123	NA		NA		NA	
Phenol-D5	%	31	10-120	NA		NA		NA	
2-Fluorophenol	%	41	15-120	NA		NA		NA	
2,4,6-Tribromophenol	%	84	36-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank		Matrix Spike Blk Dup					
Job No	Lab ID	AO5-1884	A5B0281701	AO5-1884	A5B0281702				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/L	43	5.1	38	5.1	NA		NA	
Naphthalene	UG/L	50	3.5	41	3.5	NA		NA	
IS/SURROGATE(S)									
Phenanthrene-D10	%	88	50-200	114	50-200	NA		NA	
Naphthalene-D8	%	84	50-200	114	50-200	NA		NA	
Perylene-D12	%	86	50-200	105	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	81	50-200	112	50-200	NA		NA	
Acenaphthene-D10	%	90	50-200	118	50-200	NA		NA	
Chrysene-D12	%	82	50-200	96	50-200	NA		NA	
Nitrobenzene-D5	%	84	24-120	71	24-120	NA		NA	
2-Fluorobiphenyl	%	88	32-120	81	32-120	NA		NA	
p-Terphenyl-d14	%	106	33-123	109	33-123	NA		NA	
Phenol-D5	%	34	10-120	29	10-120	NA		NA	
2-Fluorophenol	%	48	15-120	38	15-120	NA		NA	
2,4,6-Tribromophenol	%	94	36-136	90	36-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-1884	A5B0281303						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Endosulfan I	UG/L	ND	0.0050	NA		NA		NA	
Endosulfan II	UG/L	ND	0.0050	NA		NA		NA	
Heptachlor epoxide	UG/L	ND	0.0050	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	78	22-119	NA		NA		NA	
Decachlorobiphenyl	%	115	30-135	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A05-1884 A5B0281301		Matrix Spike Blk Dup A05-1884 A5B0281302					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Endosulfan I	UG/L	0.046	0.0050	0.052	0.0050	NA		NA	
Endosulfan II	UG/L	0.043	0.0050	0.049	0.0050	NA		NA	
Heptachlor epoxide	UG/L	0.048	0.0050	0.050	0.0050	NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	84	22-119	86	22-119	NA		NA	
Decachlorobiphenyl	%	109	30-135	118	30-135	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-1884 A5B0280002		Method Blank A05-1884 A5B0280902					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Mercury - Total	MG/L	ND	0.00020	NA		NA		NA	
Arsenic - Total	MG/L	NA		ND	0.010	NA		NA	
Barium - Total	MG/L	NA		ND	0.0020	NA		NA	
Cadmium - Total	MG/L	NA		ND	0.0010	NA		NA	
Chromium - Total	MG/L	NA		ND	0.0040	NA		NA	
Nickel - Total	MG/L	NA		ND	0.010	NA		NA	
Antimony - Total	MG/L	NA		ND	0.020	NA		NA	
Aluminum - Total	MG/L	NA		ND	0.20	NA		NA	
Copper - Total	MG/L	NA		ND	0.010	NA		NA	
Lead - Total	MG/L	NA		ND	0.0050	NA		NA	
Zinc - Total	MG/L	NA		ND	0.020	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		LCS A05-1884 A5B0280001		LFB A05-1884 A5B0280901					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Mercury - Total	MG/L	0.0030	0.00020	NA		NA		NA	
Arsenic - Total	MG/L	NA		0.20	0.010	NA		NA	
Barium - Total	MG/L	NA		0.20	0.0020	NA		NA	
Lead - Total	MG/L	NA		0.22	0.0050	NA		NA	
Nickel - Total	MG/L	NA		0.20	0.010	NA		NA	
Aluminum - Total	MG/L	NA		10.7	0.20	NA		NA	
Antimony - Total	MG/L	NA		0.20	0.020	NA		NA	
Cadmium - Total	MG/L	NA		0.21	0.0010	NA		NA	
Chromium - Total	MG/L	NA		0.20	0.0040	NA		NA	
Copper - Total	MG/L	NA		0.20	0.010	NA		NA	
Zinc - Total	MG/L	NA		0.20	0.020	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-1884	A5B0286002						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	MG/L	ND	0.010	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS							
Job No	Lab ID	A05-1884	A5B0286001						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	MG/L	0.42	0.010	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK67 LCS67
Lab Sample ID: A5B0283002 A5B0283001

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 624 - AQ - TIFFT & HOPKINS SELECT					
Benzene	UG/L	21.1	20.0	106	80-122
Chlorobenzene	UG/L	21.0	20.0	105	80-118
1,2-Dichlorobenzene	UG/L	20.8	20.0	104	82-119
1,3-Dichlorobenzene	UG/L	20.6	20.0	103	81-117
1,4-Dichlorobenzene	UG/L	20.6	20.0	103	81-118
Toluene	UG/L	21.1	20.0	106	68-130

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank | Matrix Spike Blank | Matrix Spike Blk Dup
Lab Sample ID: A5B0281703 | A5B0281701 | A5B0281702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			%	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
HONEYWELL-625 - 4-CHLOROANILINE/NAPTHALE											
Naphthalene	UG/L	50.5	40.9	50.0	50.0	101	82	92	21	31.0	33-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank | Matrix Spike Blank | Matrix Spike Blk Dup
Lab Sample ID: A5B0281303 | A5B0281301 | A5B0281302

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			%	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
METHOD 608 - TIFFT & HOPKINS SELECT PEST											
Endosulfan I	UG/L	0.0455	0.0520	0.0500	0.0500	91	104	98	13	40.0	44-124
Endosulfan II	UG/L	0.0434	0.0492	0.0500	0.0500	87	98	93	12	40.0	40-124
Heptachlor epoxide	UG/L	0.0483	0.0504	0.0500	0.0500	97	101	99	4	40.0	53-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A5B0280002 A5B0280001

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
HONEYWELL - 200.7 METALS - W HONEYWELL - 245.1 TOTAL MERCURY - W	MG/L	0.00302	0.00333	90	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LFB
Lab Sample ID: A5B0280902 A5B0280901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
HONEYWELL - 200.7 METALS - W					
HONEYWELL - 200.7 TOTAL ARSENIC - W	MG/L	0.205	0.200	103	85-115
HONEYWELL - 200.7 TOTAL BARIUM - W	MG/L	0.202	0.200	101	85-115
HONEYWELL - 200.7 TOTAL CADMIUM - W	MG/L	0.207	0.200	104	85-115
HONEYWELL - 200.7 TOTAL CHROMIUM - W	MG/L	0.202	0.200	101	85-115
HONEYWELL - 200.7 TOTAL COPPER - W	MG/L	0.202	0.200	101	85-115
HONEYWELL - 200.7 TOTAL LEAD - W	MG/L	0.225	0.200	113	85-115
HONEYWELL - 200.7 TOTAL NICKEL - W	MG/L	0.205	0.200	103	85-115
HONEYWELL - 200.7 TOTAL ZINC - W	MG/L	0.204	0.200	102	85-115
TOTAL ALUMINUM	MG/L	10.72	10.0	107	85-115
TOTAL ANTIMONY	MG/L	0.205	0.200	102	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A5B0286002 A5B0286001

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 335.2 - TOTAL CYANIDE	MG/L	0.425	0.400	106	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 624 - AQ - TIFFT & HOPKINS SELECT LIST VOA

Client Sample ID Job No & Lab Sample ID	CONWATER-1 A05-1884 A5188401				
Sample Date	03/02/2005 16:30				
Received Date	03/02/2005 18:00				
Extraction Date					
Analysis Date	03/03/2005 14:34				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	5.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

METHOD 624 - AQ - TIFFT & HOPKINS SELECT LIST VOA

Client Sample ID Job No & Lab Sample ID	LCS67 A05-1884 A5B0283001				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/02/2005 20:30				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

METHOD 624 - AQ - TIFFT & HOPKINS SELECT LIST VOA

Client Sample ID Job No & Lab Sample ID	VBLK67 A05-1884 A5B0283002				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/02/2005 20:53				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

HONEYWELL-625 - 4-CHLOROANILINE/NAPTHALENE

Client Sample ID Job No & Lab Sample ID	CONWATER-1 A05-1884 A5188401	CONWATER-1 A05-1884 A5188401DL			
Sample Date	03/02/2005 16:30	03/02/2005 16:30			
Received Date	03/02/2005 18:00	03/02/2005 18:00			
Extraction Date	03/03/2005 14:00	03/03/2005 14:00			
Analysis Date	03/04/2005 11:45	03/04/2005 12:19			
Extraction HT Met?	YES	YES			
Analytical HT Met?	YES	YES			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	10.0			
Sample wt/vol	1.02 LITERS	1.02 LITERS			
% Dry					

NA = Not Applicable

HONEYWELL-625 - 4-CHLOROANILINE/NAPTHALENE

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-1884 A5B0281701	Matrix Spike Blk Dup A05-1884 A5B0281702			
Sample Date					
Received Date					
Extraction Date	03/03/2005 14:00	03/03/2005 14:00			
Analysis Date	03/04/2005 10:24	03/04/2005 10:51			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	1.0 LITERS	1.0 LITERS			
% Dry					

NA = Not Applicable

HONEYWELL-625 - 4-CHLOROANILINE/NAPTHALENE

Client Sample ID Job No & Lab Sample ID	Method Blank A05-1884 A5B0281703				
Sample Date					
Received Date					
Extraction Date	03/03/2005 14:00				
Analysis Date	03/04/2005 11:18				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

METHOD 608 - TIFFT & HOPKINS SELECT PESTICIDES

Client Sample ID Job No & Lab Sample ID	CONWATER-1 A05-1884 A5188401				
Sample Date	03/02/2005 16:30				
Received Date	03/02/2005 18:00				
Extraction Date	03/03/2005 14:00				
Analysis Date	03/04/2005 15:03				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	5.0				
Sample wt/vol	1.01 LITERS				
% Dry					

NA = Not Applicable

METHOD 608 - TIFFT & HOPKINS SELECT PESTICIDES

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-1884 A5B0281301	Matrix Spike Blk Dup A05-1884 A5B0281302			
Sample Date					
Received Date					
Extraction Date	03/03/2005 14:00	03/03/2005 14:00			
Analysis Date	03/04/2005 13:17	03/04/2005 13:52			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	1.0 LITERS	1.0 LITERS			
% Dry					

NA = Not Applicable

METHOD 608 - TIFFT & HOPKINS SELECT PESTICIDES

Client Sample ID Job No & Lab Sample ID	Method Blank A05-1884 A5B0281303				
Sample Date					
Received Date					
Extraction Date	03/03/2005 14:00				
Analysis Date	03/04/2005 14:28				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5188401	CONWATER-1	MG/L	Aluminum - Total	200.7	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/07 11:57	Yes	WATER
		MG/L	Antimony - Total	200.7	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/04 18:15	Yes	WATER
		MG/L	Arsenic - Total	200.7	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/04 18:15	Yes	WATER
		MG/L	Barium - Total	200.7	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/04 18:15	Yes	WATER
		MG/L	Cadmium - Total	200.7	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/04 18:15	Yes	WATER
		MG/L	Chromium - Total	200.7	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/04 18:15	Yes	WATER
		MG/L	Copper - Total	200.7	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/04 18:15	Yes	WATER
		MG/L	Lead - Total	200.7	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/04 18:15	Yes	WATER
		MG/L	Mercury - Total	245.1	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/03 15:52	Yes	WATER
		MG/L	Nickel - Total	200.7	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/04 18:15	Yes	WATER
		MG/L	Zinc - Total	200.7	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/04 18:15	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0280002	Method Blank	MG/L	Mercury - Total	245.1	1.00	-	- 18:00	NA	NA	03/03 15:59	Yes	WATER
A5B0280902	Method Blank	MG/L	Aluminum - Total	200.7	1.00	-	- 18:00	NA	NA	03/07 11:49	Yes	WATER
		MG/L	Antimony - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 17:56	Yes	WATER
		MG/L	Arsenic - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 17:56	Yes	WATER
		MG/L	Barium - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 17:56	Yes	WATER
		MG/L	Cadmium - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 17:56	Yes	WATER
		MG/L	Chromium - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 17:56	Yes	WATER
		MG/L	Copper - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 17:56	Yes	WATER
		MG/L	Lead - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 17:56	Yes	WATER
		MG/L	Nickel - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 17:56	Yes	WATER
		MG/L	Zinc - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 17:56	Yes	WATER
A5B0280001	LCS	MG/L	Mercury - Total	245.1	1.00	-	- 18:00	NA	NA	03/03 15:58	Yes	WATER
A5B0280901	LFB	MG/L	Aluminum - Total	200.7	1.00	-	- 18:00	NA	NA	03/07 11:53	Yes	WATER
		MG/L	Antimony - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 18:01	Yes	WATER
		MG/L	Arsenic - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 18:01	Yes	WATER
		MG/L	Barium - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 18:01	Yes	WATER
		MG/L	Cadmium - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 18:01	Yes	WATER
		MG/L	Chromium - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 18:01	Yes	WATER
		MG/L	Copper - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 18:01	Yes	WATER
		MG/L	Lead - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 18:01	Yes	WATER
		MG/L	Nickel - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 18:01	Yes	WATER
		MG/L	Zinc - Total	200.7	1.00	-	- 18:00	NA	NA	03/04 18:01	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5188401	CONWATER-1	MG/L	Cyanide - Total	335.2	1.00	03/02/2005 16:30	03/02 18:00	NA	NA	03/04 13:30	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0286002	Method Blank	MG/L	Cyanide - Total	335.2	1.00	-	- 18:00	NA	NA	03/04 13:30	Yes	WATER
A5B0286001	LCS	MG/L	Cyanide - Total	335.2	1.00	-	- 18:00	NA	NA	03/04 13:30	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Honeywell	Project Manager: Mark Raybuck	Date: 3/2/05	Chain of Custody Number: 191060
Address: c/o Parsons 180 Lawrence Bell Dr.	Telephone Number (Area Code)/Fax Number: 716 6337074 716 633 7195	Lab Number:	Page 1 of 1
City: Williamsville / State: NY / Zip Code: 14221	Site Contact: J. Poulsen	Lab Contact: B. Fischer	
Project Name and Location (State): Tiff: Hopkins NY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: HOW COCs	Lead	VOCs	SVOCs	PEST	METALS	Special Instructions/ Conditions of Receipt
SW-2	3/2/05	1600				X	X						X	X					2 BD
CONTACTER-1	3/2/05	1630		X			X		X	X					✓	✓	✓	✓	3 BD

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [X] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify)

1. Relinquished By	Date: 3/2/05	Time: 1800	1. Received By	Date: 3/2/05	Time: 1900
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

49/49

ANALYTICAL REPORT

Job#: A05-1962

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/09/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5196201	BS-1	03/04/2005	13:30	03/04/2005	15:10

METHODS SUMMARY

Job#: A05-1962

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-1962

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-1962
Sample Cooler(s) were received at the following temperature(s); 11.6 °C
Sample(s) were received at a temperature of >10°C. However, samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		BS-1							
Job No	Lab ID	A05-1962	A5196201						
Sample Date		03/04/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	6	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	6	NA		NA		NA	
Chlorobenzene	UG/KG	14	6	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	84	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	82	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	73	50-200	NA		NA		NA	
Toluene-D8	%	115	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	98	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	106	61-136	NA		NA		NA	

8/29

NA = Not Applicable ND = Not Detected

Client ID		BS-1							
Job No	Lab ID	A05-1962	A5196201						
Sample Date		03/04/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	410	NA		NA		NA	
Nitrobenzene	UG/KG	ND	410	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	116	50-200	NA		NA		NA	
Naphthalene-D8	%	114	50-200	NA		NA		NA	
Acenaphthene-D10	%	120	50-200	NA		NA		NA	
Phenanthrene-D10	%	122	50-200	NA		NA		NA	
Chrysene-D12	%	150	50-200	NA		NA		NA	
Perylene-D12	%	160	50-200	NA		NA		NA	
Nitrobenzene-D5	%	70	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	70	36-138	NA		NA		NA	
p-Terphenyl-d14	%	68	41-167	NA		NA		NA	
Phenol-D5	%	63	34-120	NA		NA		NA	
2-Fluorophenol	%	55	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	87	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-1							
Job No	Lab ID	A05-1962	A5196201						
Sample Date		03/04/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	15.5	1.0	NA		NA		NA	

10/29

Chronology and QC Summary Package

Client ID		VBLK76							
Job No	Lab ID	A05-1962	A5B0301702						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	84	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	85	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	75	50-200	NA		NA		NA	
Toluene-D8	%	118	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	99	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	100	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB76							
Job No	Lab ID	A05-1962	A5B0301701						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	54	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	91	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	92	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	81	50-200	NA		NA		NA	
Toluene-D8	%	114	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	100	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	100	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-1962	A5B0292002						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	105	50-200	NA		NA		NA	
Naphthalene-D8	%	104	50-200	NA		NA		NA	
Acenaphthene-D10	%	110	50-200	NA		NA		NA	
Phenanthrene-D10	%	110	50-200	NA		NA		NA	
Chrysene-D12	%	133	50-200	NA		NA		NA	
Perylene-D12	%	94	50-200	NA		NA		NA	
Nitrobenzene-D5	%	78	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	79	36-138	NA		NA		NA	
p-Terphenyl-d14	%	85	41-167	NA		NA		NA	
Phenol-D5	%	70	34-120	NA		NA		NA	
2-Fluorophenol	%	63	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	99	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-1962	A5B0292001						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	104	50-200	NA		NA		NA	
Naphthalene-D8	%	101	50-200	NA		NA		NA	
Acenaphthene-D10	%	105	50-200	NA		NA		NA	
Phenanthrene-D10	%	107	50-200	NA		NA		NA	
Chrysene-D12	%	141	50-200	NA		NA		NA	
Perylene-D12	%	156	50-200	NA		NA		NA	
Nitrobenzene-D5	%	93	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	92	36-138	NA		NA		NA	
p-Terphenyl-d14	%	86	41-167	NA		NA		NA	
Phenol-D5	%	83	34-120	NA		NA		NA	
2-Fluorophenol	%	71	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	121	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-1962 A5B0292702							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS CLP Soils							
Job No	Lab ID	A05-1962	A5B0292701						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	105	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK76 MSB76
Lab Sample ID: A5B0301702 A5B0301701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	54.1	50.0	108	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0292702 A5B0292701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	104.6	105.0	100	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	BS-1				
Job No & Lab Sample ID	A05-1962 A5196201				
Sample Date	03/04/2005 13:30				
Received Date	03/04/2005 15:10				
Extraction Date					
Analysis Date	03/08/2005 12:49				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.02 GRAMS				
% Dry	79.03				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	MSB76				
Job No & Lab Sample ID	A05-1962 A5B0301701				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/08/2005 11:48				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	VBLK76				
Job No & Lab Sample ID	A05-1962 A5B0301702				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/08/2005 12:15				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID	BS-1				
Job No & Lab Sample ID	A05-1962 A5196201				
Sample Date	03/04/2005 13:30				
Received Date	03/04/2005 15:10				
Extraction Date	03/05/2005 09:00				
Analysis Date	03/07/2005 16:20				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.32 GRAMS				
% Dry	79.44				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-1962 A5B0292001				
Sample Date					
Received Date					
Extraction Date	03/05/2005 09:00				
Analysis Date	03/07/2005 10:36				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.32 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID	SBLK				
Job No & Lab Sample ID	A05-1962 A5B0292002				
Sample Date					
Received Date					
Extraction Date	03/05/2005 09:00				
Analysis Date	03/07/2005 11:03				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.17 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5196201	BS-1	MG/KG	Lead - Total	6010	1.00	03/04/2005 13:30	03/04 15:10	NA	NA	03/08 02:12	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0292702	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 15:10	NA	NA	03/08 00:19	Yes	SOIL
A5B0292701	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 15:10	NA	NA	03/08 00:24	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Howey well	Mark Raybuck	3/4/05	191059
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
Parsons 180 Lawrence Bell	716 633-7074		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Williamsville / NY / 14221	J. Poulsen	B. Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
TIFFT Hopkins NY			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: Non COC	Lead	Special Instructions/ Conditions of Receipt
BS-1	3/4/05	1330				X	X						✓	✓	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/4/05	1510	1. Received By	03/04/05	1510
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

11.6°C

NO ICE

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

29/29

ANALYTICAL REPORT

Job#: A05-2276

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/22/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5227601	SW-3	SOIL	03/14/2005	14:25	03/14/2005	17:05
A5227602	SW-4	SOIL	03/14/2005	14:45	03/14/2005	17:05

METHODS SUMMARY

Job#: A05-2276

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-2276

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2276
Sample Cooler(s) were received at the following temperature(s); 17.0 °C
Samples were received at a temperature of >10°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		SW-3		SW-4		SW-4			
Job No	Lab ID	A05-2276	A5227601	A05-2276	A5227602	A05-2276	A5227602DL		
Sample Date		03/14/2005		03/14/2005		03/14/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	7	56	6	120 D	29	NA	
1,3-Dichlorobenzene	UG/KG	ND	7	4 J	6	10 DJ	29	NA	
Chlorobenzene	UG/KG	19	7	250 E	6	280 D	29	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	7	5 J	6	20 DJ	29	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	81	50-200	82	50-200	103	50-200	NA	
1,4-Difluorobenzene	%	81	50-200	82	50-200	102	50-200	NA	
1,4-Dichlorobenzene-D4	%	72	50-200	75	50-200	96	50-200	NA	
Toluene-D8	%	98	71-125	99	71-125	99	71-125	NA	
p-Bromofluorobenzene	%	86	68-124	85	68-124	89	68-124	NA	
1,2-Dichloroethane-D4	%	81	61-136	79	61-136	90	61-136	NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-3		SW-4					
Job No	Lab ID	A05-2276	A5227601	A05-2276	A5227602				
Sample Date		03/14/2005		03/14/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	460	100 J	400	NA		NA	
Nitrobenzene	UG/KG	ND	460	ND	400	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	93	50-200	97	50-200	NA		NA	
Naphthalene-D8	%	98	50-200	102	50-200	NA		NA	
Acenaphthene-D10	%	98	50-200	100	50-200	NA		NA	
Phenanthrene-D10	%	98	50-200	97	50-200	NA		NA	
Chrysene-D12	%	108	50-200	106	50-200	NA		NA	
Perylene-D12	%	123	50-200	129	50-200	NA		NA	
Nitrobenzene-D5	%	78	30-127	62	30-127	NA		NA	
2-Fluorobiphenyl	%	93	36-138	82	36-138	NA		NA	
p-Terphenyl-d14	%	92	41-167	79	41-167	NA		NA	
Phenol-D5	%	76	34-120	61	34-120	NA		NA	
2-Fluorophenol	%	66	26-120	53	26-120	NA		NA	
2,4,6-Tribromophenol	%	102	42-140	91	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-3		SW-4					
Job No	Lab ID	A05-2276	A5227601	A05-2276	A5227602				
Sample Date		03/14/2005		03/14/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	20.7	1.6	14.1	1.2	NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5227601 A5227601MS A5227601SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	20.68	46.23	43.38	26.48	27.45	96	83	90	14	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK82		VBLK83					
Job No	Lab ID	A05-2276	A5B0352902	A05-2276	A5B0352903				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
Chlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	82	50-200	80	50-200	NA		NA	
1,4-Difluorobenzene	%	81	50-200	80	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	72	50-200	71	50-200	NA		NA	
Toluene-D8	%	99	71-125	99	71-125	NA		NA	
p-Bromofluorobenzene	%	87	68-124	84	68-124	NA		NA	
1,2-Dichloroethane-D4	%	77	61-136	87	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB83							
Job No	Lab ID	A05-2276	A5B0352901						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	48	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	87	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	87	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	77	50-200	NA		NA		NA	
Toluene-D8	%	97	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	86	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	87	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID	S Blank							
Job No Lab ID	A05-2276	A5B0337503						
Sample Date								
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	NA		NA		NA	
Nitrobenzene	UG/KG	ND	320	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	99	50-200	NA		NA		NA	
Naphthalene-D8	%	106	50-200	NA		NA		NA	
Acenaphthene-D10	%	108	50-200	NA		NA		NA	
Phenanthrene-D10	%	104	50-200	NA		NA		NA	
Chrysene-D12	%	112	50-200	NA		NA		NA	
Perylene-D12	%	132	50-200	NA		NA		NA	
Nitrobenzene-D5	%	66	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	76	36-138	NA		NA		NA	
p-Terphenyl-d14	%	87	41-167	NA		NA		NA	
Phenol-D5	%	65	34-120	NA		NA		NA	
2-Fluorophenol	%	59	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	87	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A05-2276 A5B0337501		Matrix Spike Blk Dup A05-2276 A5B0337502					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	ND	330	NA		NA	
Nitrobenzene	UG/KG	ND	320	ND	330	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	96	50-200	105	50-200	NA		NA	
Naphthalene-D8	%	103	50-200	113	50-200	NA		NA	
Acenaphthene-D10	%	109	50-200	118	50-200	NA		NA	
Phenanthrene-D10	%	103	50-200	113	50-200	NA		NA	
Chrysene-D12	%	102	50-200	114	50-200	NA		NA	
Perylene-D12	%	136	50-200	149	50-200	NA		NA	
Nitrobenzene-D5	%	68	30-127	62	30-127	NA		NA	
2-Fluorobiphenyl	%	79	36-138	72	36-138	NA		NA	
p-Terphenyl-d14	%	81	41-167	77	41-167	NA		NA	
Phenol-D5	%	67	34-120	62	34-120	NA		NA	
2-Fluorophenol	%	60	26-120	55	26-120	NA		NA	
2,4,6-Tribromophenol	%	91	42-140	83	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-2276 A5B0338602							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS CLP Soils		SW-3		SW-3			
Job No	Lab ID	A05-2276	A5B0338601	A05-2276	A5227601MS	A05-2276	A5227601SD		
Sample Date				03/14/2005		03/14/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	108	1.0	46.2	1.3	43.4	1.4	NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK83 MSB83
Lab Sample ID: A5B0352903 A5B0352901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	48.1	50.0	96	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/14/2005

Client Sample ID: SW-3 SW-3 SW-3
Lab Sample ID: A5227601 A5227601MS A5227601SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	20.68	46.23	43.38	26.48	27.45	96	83	90	14	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0338602 A5B0338601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	107.6	105.0	102	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	SW-3 A05-2276 A5227601	SW-4 A05-2276 A5227602	SW-4 A05-2276 A5227602DL		
Sample Date	03/14/2005 14:25	03/14/2005 14:45	03/14/2005 14:45		
Received Date	03/14/2005 17:05	03/14/2005 17:05	03/14/2005 17:05		
Extraction Date					
Analysis Date	03/16/2005 17:34	03/16/2005 17:52	03/16/2005 19:59		
Extraction HT Met?	-	-	-		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	5.04 GRAMS	5.0 GRAMS	1.06 GRAMS		
% Dry	71.97	81.01	81.01		

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	MSB83				
Job No & Lab Sample ID	A05-2276 A5B0352901				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/16/2005 15:55				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	VBLK82 A05-2276 A5B0352902	VBLK83 A05-2276 A5B0352903			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/16/2005 16:13	03/16/2005 16:31			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SW-3 A05-2276 A5227601	SW-4 A05-2276 A5227602			
Sample Date	03/14/2005 14:25	03/14/2005 14:45			
Received Date	03/14/2005 17:05	03/14/2005 17:05			
Extraction Date	03/15/2005 07:00	03/15/2005 07:00			
Analysis Date	03/15/2005 16:38	03/15/2005 17:03			
Extraction HT Met?	YES	YES			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	30.39 GRAMS	30.79 GRAMS			
% Dry	70.58	79.86			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2276 A5B0337501	Matrix Spike Blk Dup A05-2276 A5B0337502			
Sample Date					
Received Date					
Extraction Date	03/15/2005 07:00	03/15/2005 07:00			
Analysis Date	03/15/2005 15:22	03/15/2005 15:47			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	30.43 GRAMS	30.25 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	S Blank A05-2276 A5B0337503				
Sample Date					
Received Date					
Extraction Date	03/15/2005 07:00				
Analysis Date	03/15/2005 16:13				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.77 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5227601	SW-3	MG/KG	Lead - Total	6010	1.00	03/14/2005 14:25	03/14 17:05	NA	NA	03/15 19:14	Yes	SOIL
A5227602	SW-4	MG/KG	Lead - Total	6010	1.00	03/14/2005 14:45	03/14 17:05	NA	NA	03/15 19:45	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5227601MS	SW-3	MG/KG	Lead - Total	6010	1.00	03/14/2005 14:25	03/14 17:05	NA	NA	03/15 19:24	Yes	SOIL
A5227601SD	SW-3	MG/KG	Lead - Total	6010	1.00	03/14/2005 14:25	03/14 17:05	NA	NA	03/15 19:40	Yes	SOIL
A5B0338602	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 17:05	NA	NA	03/15 19:05	Yes	SOIL
A5B0338601	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 17:05	NA	NA	03/15 19:10	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
HONEYWELL VIA PARSONS	MARK RAYBUCK	3/14/05	191058
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
180 LAWRENCE BELL DR STE 108	(716) 633-7074		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
WILLIAMSVILLE / NY / 14221	J. POULSEN	B FISHER	
Project Name and Location (State)	**Carrier/Waybill Number**		
TIFFT / HOPKINS			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: How-Cocs	Total Lead	Special Instructions/ Conditions of Receipt
SW-3	3/14/05	1425				✓	✓						✓	✓	
SW-4	3/14/05	1445				✓	✓						✓	✓	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/14/05	1705	1. Received By	03/14/05	1705
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

17.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

32/32

ANALYTICAL REPORT

Job#: A05-2307

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

08/24/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5230701	SW-5	SOIL	03/15/2005	13:30	03/15/2005	15:03
A5230702	SW-6	SOIL	03/15/2005	13:45	03/15/2005	15:03

METHODS SUMMARY

Job#: A05-2307

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-2307

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2307
Sample Cooler(s) were received at the following temperature(s); 9.0 °C
Samples were received at a temperature of 9°C. These samples were analyzed as per instructions from the client. Based on EPA data validation guidelines, there is no impact on data usability.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

The recovery of sample SW-5 Matrix Spike Duplicate exhibited results below the quality control limits for Lead. Sample matrix is suspect. The RPD of sample SW-5 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Lead. However, the LCS (A5B0342901) was acceptable.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Client ID		SW-5		SW-6		SW-6			
Job No	Lab ID	A05-2307	A5230701	A05-2307	A5230702	A05-2307	A5230702DL		
Sample Date		03/15/2005		03/15/2005		03/15/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	2 J	6	79	6	95 D	31	NA	
1,3-Dichlorobenzene	UG/KG	2 J	6	20	6	26 DJ	31	NA	
Chlorobenzene	UG/KG	67	6	610 E	6	730 D	31	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	ND	31	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	81	50-200	81	50-200	103	50-200	NA	
1,4-Difluorobenzene	%	82	50-200	78	50-200	101	50-200	NA	
1,4-Dichlorobenzene-D4	%	74	50-200	74	50-200	90	50-200	NA	
Toluene-D8	%	100	71-125	97	71-125	97	71-125	NA	
p-Bromofluorobenzene	%	87	68-124	87	68-124	85	68-124	NA	
1,2-Dichloroethane-D4	%	89	61-136	83	61-136	90	61-136	NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-5		SW-6					
Job No	Lab ID	A05-2307	A5230701	A05-2307	A5230702				
Sample Date		03/15/2005		03/15/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	420	ND	360	NA		NA	
Nitrobenzene	UG/KG	ND	420	ND	360	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	100	50-200	112	50-200	NA		NA	
Naphthalene-D8	%	102	50-200	114	50-200	NA		NA	
Acenaphthene-D10	%	101	50-200	114	50-200	NA		NA	
Phenanthrene-D10	%	103	50-200	116	50-200	NA		NA	
Chrysene-D12	%	102	50-200	121	50-200	NA		NA	
Perylene-D12	%	103	50-200	116	50-200	NA		NA	
Nitrobenzene-D5	%	74	30-127	72	30-127	NA		NA	
2-Fluorobiphenyl	%	83	36-138	80	36-138	NA		NA	
p-Terphenyl-d14	%	83	41-167	74	41-167	NA		NA	
Phenol-D5	%	72	34-120	70	34-120	NA		NA	
2-Fluorophenol	%	67	26-120	65	26-120	NA		NA	
2,4,6-Tribromophenol	%	89	42-140	87	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-5		SW-6					
Job No	Lab ID	A05-2307	A5230701	A05-2307	A5230702				
Sample Date		03/15/2005		03/15/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	21.7	1.3	15.2	1.1	NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5228701 A5228701MS A5228701SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
ENSR - SOIL-SW8463 8270 - STARS BASE NEU												
Acenaphthene	UG/KG	0	3415	3639	4450	4475	77	81	79	5	16.0	49-131
Pyrene	UG/KG	0	3782	3992	4450	4475	85	89	87	4	25.0	48-154

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A5230701 A5230701MS A5230701SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
LEAD ANALYSIS TOTAL LEAD	MG/KG	21.67	42.24	34.69	25.69	25.20	80	52 *	66	42 *	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK82		VBLK83					
Job No	Lab ID	A05-2307	A5B0352902	A05-2307	A5B0352903				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
Chlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	82	50-200	80	50-200	NA		NA	
1,4-Difluorobenzene	%	81	50-200	80	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	72	50-200	71	50-200	NA		NA	
Toluene-D8	%	99	71-125	99	71-125	NA		NA	
p-Bromofluorobenzene	%	87	68-124	84	68-124	NA		NA	
1,2-Dichloroethane-D4	%	77	61-136	87	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB83							
Job No	Lab ID	A05-2307	A5B0352901						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	48	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	87	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	87	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	77	50-200	NA		NA		NA	
Toluene-D8	%	97	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	86	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	87	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-2307	A5B0342002						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	107	50-200	NA		NA		NA	
Naphthalene-D8	%	110	50-200	NA		NA		NA	
Acenaphthene-D10	%	110	50-200	NA		NA		NA	
Phenanthrene-D10	%	110	50-200	NA		NA		NA	
Chrysene-D12	%	108	50-200	NA		NA		NA	
Perylene-D12	%	82	50-200	NA		NA		NA	
Nitrobenzene-D5	%	68	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	78	36-138	NA		NA		NA	
p-Terphenyl-d14	%	82	41-167	NA		NA		NA	
Phenol-D5	%	64	34-120	NA		NA		NA	
2-Fluorophenol	%	59	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	85	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-2307 A5B0342902							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		LCS CLP Soils A05-2307 A5B0342901		SW-5 A05-2307 A5230701MS 03/15/2005		SW-5 A05-2307 A5230701SD 03/15/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	91.8	1.0	42.2	1.3	34.7	1.3	NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK83 MSB83
Lab Sample ID: A5B0352903 A5B0352901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	48.1	50.0	96	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/15/2005

Client Sample ID: SW-5	SW-5	SW-5
Lab Sample ID: A5230701	A5230701MS	A5230701SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	21.67	42.24	34.69	25.69	25.20	80	52 *	66	42 *	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0342902 A5B0342901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	91.78	105.0	87	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	SW-5 A05-2307 A5230701	SW-6 A05-2307 A5230702	SW-6 A05-2307 A5230702DL		
Sample Date	03/15/2005 13:30	03/15/2005 13:45	03/15/2005 13:45		
Received Date	03/15/2005 15:03	03/15/2005 15:03	03/15/2005 15:03		
Extraction Date					
Analysis Date	03/16/2005 18:10	03/16/2005 18:28	03/16/2005 20:35		
Extraction HT Met?	-	-	-		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	5.04 GRAMS	5.07 GRAMS	1.06 GRAMS		
% Dry	77.06	75.20	75.20		

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	MSB83				
Job No & Lab Sample ID	A05-2307 A5B0352901				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/16/2005 15:55				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	VBLK82 A05-2307 A5B0352902	VBLK83 A05-2307 A5B0352903			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/16/2005 16:13	03/16/2005 16:31			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SW-5 A05-2307 A5230701	SW-6 A05-2307 A5230702			
Sample Date	03/15/2005 13:30	03/15/2005 13:45			
Received Date	03/15/2005 15:03	03/15/2005 15:03			
Extraction Date	03/15/2005 07:00	03/15/2005 07:00			
Analysis Date	03/16/2005 11:16	03/16/2005 11:44			
Extraction HT Met?	YES	YES			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	30.43 GRAMS	30.09 GRAMS			
% Dry	76.75	91.87			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SBLK A05-2307 A5B0342002				
Sample Date					
Received Date					
Extraction Date	03/15/2005 07:00				
Analysis Date	03/16/2005 10:49				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.32 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5230701	SW-5	MG/KG	Lead - Total	6010	1.00	03/15/2005 13:30	03/15 15:03	NA	NA	03/16 11:23	Yes	SOIL
A5230702	SW-6	MG/KG	Lead - Total	6010	1.00	03/15/2005 13:45	03/15 15:03	NA	NA	03/16 11:41	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5230701MS	SW-5	MG/KG	Lead - Total	6010	1.00	03/15/2005 13:30	03/15 15:03	NA	NA	03/16 11:32	Yes	SOIL
A5230701SD	SW-5	MG/KG	Lead - Total	6010	1.00	03/15/2005 13:30	03/15 15:03	NA	NA	03/16 11:36	Yes	SOIL
A5B0342902	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 15:03	NA	NA	03/16 11:10	Yes	SOIL
A5B0342901	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 15:03	NA	NA	03/16 11:14	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody Record

SEVERN TRENT STL

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Honeywell C/O Parsons	Mark Raybuck		190784
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
180 Lawrence Bell Dr	716 432 7685		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Williamsville / NY / 14221	J. Poulsen	B. Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
Tift / Hopkins			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH		Analysis: HonVOCs	HonSVOCs	Pb										Special Instructions/ Conditions of Receipt
BS-6	4/18/05	1330				X	X						X	X	X											
SW-8C	4/19/05	0900				X	X						X	X	X											

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/19/05	1545	1. Received By STL Buffalo	4/19/05	1545
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

12.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

29/29

ANALYTICAL REPORT

Job#: A05-2365

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/21/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5236501	BS-2	03/16/2005	14:40	03/16/2005	16:28

METHODS SUMMARY

Job#: A05-2365

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-2365

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2365
Sample Cooler(s) were received at the following temperature(s); 9.0 °C
Samples were received at a temperature of 9°C. These samples were analyzed as per instructions from the client. Based on EPA data validation guidelines, there is no impact on data usability.

GC/MS Volatile Data

The dilution of sample BS-2 was analyzed using medium level techniques due to high concentrations of Chlorobenzene.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		BS-2		BS-2					
Job No	Lab ID	A05-2365	A5236501	A05-2365	A5236501DL				
Sample Date		03/16/2005		03/16/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	15 J	30	ND	770	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	30	ND	770	NA		NA	
Chlorobenzene	UG/KG	1900 E	30	1600 D	770	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	30	ND	770	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	84	50-200	92	50-200	NA		NA	
1,4-Difluorobenzene	%	84	50-200	92	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	76	50-200	81	50-200	NA		NA	
Toluene-D8	%	92	71-125	100	71-125	NA		NA	
p-Bromofluorobenzene	%	84	68-124	88	68-124	NA		NA	
1,2-Dichloroethane-D4	%	88	61-136	96	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-2							
Job No	Lab ID	A05-2365	A5236501						
Sample Date		03/16/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	410	NA		NA		NA	
Nitrobenzene	UG/KG	ND	410	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	113	50-200	NA		NA		NA	
Naphthalene-D8	%	123	50-200	NA		NA		NA	
Acenaphthene-D10	%	124	50-200	NA		NA		NA	
Phenanthrene-D10	%	137	50-200	NA		NA		NA	
Chrysene-D12	%	174	50-200	NA		NA		NA	
Perylene-D12	%	99	50-200	NA		NA		NA	
Nitrobenzene-D5	%	73	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	80	36-138	NA		NA		NA	
p-Terphenyl-d14	%	84	41-167	NA		NA		NA	
Phenol-D5	%	73	34-120	NA		NA		NA	
2-Fluorophenol	%	66	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	91	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-2							
Job No	Lab ID	A05-2365	A5236501						
Sample Date		03/16/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	11.9	1.3	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Chronology and QC Summary Package

Client ID		METHANOL BLK 031705		VBLK76		VBLK84			
Job No	Lab ID	A05-2365	A5236502	A05-2365	A5B0361704	A05-2365	A5B0358702		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	620	ND	620	ND	5	NA	
1,3-Dichlorobenzene	UG/KG	ND	620	ND	620	ND	5	NA	
Chlorobenzene	UG/KG	ND	620	ND	620	ND	5	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	620	ND	620	ND	5	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	90	50-200	90	50-200	85	50-200	NA	
1,4-Difluorobenzene	%	92	50-200	90	50-200	88	50-200	NA	
1,4-Dichlorobenzene-D4	%	81	50-200	81	50-200	76	50-200	NA	
Toluene-D8	%	102	71-125	102	71-125	96	71-125	NA	
p-Bromofluorobenzene	%	92	68-124	92	68-124	86	68-124	NA	
1,2-Dichloroethane-D4	%	95	61-136	98	61-136	85	61-136	NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB76		MSB84					
Job No	Lab ID	A05-2365	A5B0361703	A05-2365	A5B0358701				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	5800	620	ND	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	5600	620	ND	5	NA		NA	
Chlorobenzene	UG/KG	5700	620	49	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	5600	620	ND	5	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	96	50-200	93	50-200	NA		NA	
1,4-Difluorobenzene	%	94	50-200	93	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	93	50-200	86	50-200	NA		NA	
Toluene-D8	%	99	71-125	93	71-125	NA		NA	
p-Bromofluorobenzene	%	96	68-124	85	68-124	NA		NA	
1,2-Dichloroethane-D4	%	94	61-136	86	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-2365	A5B0350502						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	102	50-200	NA		NA		NA	
Naphthalene-D8	%	108	50-200	NA		NA		NA	
Acenaphthene-D10	%	107	50-200	NA		NA		NA	
Phenanthrene-D10	%	106	50-200	NA		NA		NA	
Chrysene-D12	%	128	50-200	NA		NA		NA	
Perylene-D12	%	135	50-200	NA		NA		NA	
Nitrobenzene-D5	%	90	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	96	36-138	NA		NA		NA	
p-Terphenyl-d14	%	79	41-167	NA		NA		NA	
Phenol-D5	%	87	34-120	NA		NA		NA	
2-Fluorophenol	%	79	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	105	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-2365	A5B0350501						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	NA		NA		NA	
Nitrobenzene	UG/KG	ND	320	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	107	50-200	NA		NA		NA	
Naphthalene-D8	%	112	50-200	NA		NA		NA	
Acenaphthene-D10	%	109	50-200	NA		NA		NA	
Phenanthrene-D10	%	105	50-200	NA		NA		NA	
Chrysene-D12	%	135	50-200	NA		NA		NA	
Perylene-D12	%	139	50-200	NA		NA		NA	
Nitrobenzene-D5	%	79	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	89	36-138	NA		NA		NA	
p-Terphenyl-d14	%	74	41-167	NA		NA		NA	
Phenol-D5	%	76	34-120	NA		NA		NA	
2-Fluorophenol	%	68	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	107	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-2365	A5B0351502						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS CLP Soils							
Job No	Lab ID	A05-2365	A5B0351501						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	100	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK76 MSB76
Lab Sample ID: A5B0361704 A5B0361703

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	5688	6250	91	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK84 MSB84
Lab Sample ID: A5B0358702 A5B0358701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	48.9	50.0	98	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0351502 A5B0351501

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	100.0	105.0	95	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	BS-2 A05-2365 A5236501	BS-2 A05-2365 A5236501DL			
Sample Date	03/16/2005 14:40	03/16/2005 14:40			
Received Date	03/16/2005 16:28	03/16/2005 16:28			
Extraction Date					
Analysis Date	03/17/2005 17:10	03/18/2005 00:12			
Extraction HT Met?	-	-			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL LOW	SOIL MED			
Dilution Factor	1.0	1.0			
Sample wt/vol	1.05 GRAMS	4.14 GRAMS			
% Dry	78.37	78.37			

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	MSB76 A05-2365 A5B0361703	MSB84 A05-2365 A5B0358701			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/17/2005 22:11	03/17/2005 15:33			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL MED	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	4.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	METHANOL BLK 031705 A05-2365 A5236502	VBLK76 A05-2365 A5B0361704	VBLK84 A05-2365 A5B0358702		
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/17/2005 23:42	03/17/2005 22:41	03/17/2005 16:05		
Extraction HT Met?	-	-	-		
Analytical HT Met?	-	-	-		
Sample Matrix	SOIL MED	SOIL MED	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	4.0 GRAMS	4.0 GRAMS	5.0 GRAMS		
% Dry	100.00	100.00	100.00		

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID	BS-2				
Job No & Lab Sample ID	A05-2365 A5236501				
Sample Date	03/16/2005 14:40				
Received Date	03/16/2005 16:28				
Extraction Date	03/16/2005 14:00				
Analysis Date	03/17/2005 18:22				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.91 GRAMS				
% Dry	78.19				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2365 A5B0350501				
Sample Date					
Received Date					
Extraction Date	03/16/2005 14:00				
Analysis Date	03/17/2005 12:53				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.51 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SBLK A05-2365 A5B0350502				
Sample Date					
Received Date					
Extraction Date	03/16/2005 14:00				
Analysis Date	03/17/2005 13:18				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.28 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5236501	BS-2	MG/KG	Lead - Total	6010	1.00	03/16/2005 14:40	03/16 16:28	NA	NA	03/17 22:15	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0351502	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 16:28	NA	NA	03/17 20:53	Yes	SOIL
A5B0351501	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 16:28	NA	NA	03/17 20:57	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Honeywell via Parsons	Mark Rayback	3/16/05	192383
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of
180 Lawrence Bell Dr	716-633-7074 / 633-7495		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Williamsville / NY / 14221	J. Pouliot	B. Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
Tift & Hopkins			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis: Total Lead	Honeywell COCs	Special Instructions/ Conditions of Receipt
BS-2	3/16/05	1440				✓		✓							✓	✓	

Possible Hazard Identification

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☑ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/16/05	1628	1. Received By	03/16/05	1628
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

30/30

ANALYTICAL REPORT

Job#: A05-2514

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/28/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5251401	BS-3	SOIL	03/21/2005	14:30	03/21/2005	15:10

METHODS SUMMARY

Job#: A05-2514

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
ASP 2000 - SELECT TIFFT&HOPKINS VOLATILES	ASP00 EPA VOA
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

ASP00 "Analytical Services Protocol", New York State Department of Conservation, June 2000.

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

NON-CONFORMANCE SUMMARY

Job#: A05-2514

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2514
Sample Cooler(s) were received at the following temperature(s); 9.0 °C
Samples were received at a temperature of 9°C. These samples were analyzed as per instructions from the client. Based on EPA data validation guidelines, there is no impact on data usability.

GC/MS Volatile Data

Sample BS-3 DL was analyzed using medium level techniques due to high concentrations of target analytes.

The sample(s) were analyzed using ASP 2000 protocol, instead of the requested SW8463, due to instrument capacity.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		BS-3		BS-3 DL					
Job No	Lab ID	A05-2514	A5251401	A05-2514	A5251401DL				
Sample Date		03/21/2005		03/21/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	13	ND	1500	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	13	ND	1500	NA		NA	
Chlorobenzene	UG/KG	320 E	13	840 DJ	1500	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	13	ND	1500	NA		NA	
IS/SURROGATE(S)									
Bromochloromethane	%	86	50-200	90	50-200	NA		NA	
1,4-Difluorobenzene	%	85	50-200	96	50-200	NA		NA	
Chlorobenzene-D5	%	88	50-200	87	50-200	NA		NA	
p-Bromofluorobenzene	%	95	59-113	95	59-113	NA		NA	
1,2-Dichloroethane-D4	%	101	70-121	102	70-121	NA		NA	
Toluene-D8	%	97	84-138	92	84-138	NA		NA	

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Client ID		BS-3							
Job No	Lab ID	A05-2514	A5251401						
Sample Date		03/21/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	390	NA		NA		NA	
Nitrobenzene	UG/KG	ND	390	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	110	50-200	NA		NA		NA	
Naphthalene-D8	%	114	50-200	NA		NA		NA	
Acenaphthene-D10	%	109	50-200	NA		NA		NA	
Phenanthrene-D10	%	105	50-200	NA		NA		NA	
Chrysene-D12	%	111	50-200	NA		NA		NA	
Perylene-D12	%	117	50-200	NA		NA		NA	
Nitrobenzene-D5	%	67	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	78	36-138	NA		NA		NA	
p-Terphenyl-d14	%	88	41-167	NA		NA		NA	
Phenol-D5	%	62	34-120	NA		NA		NA	
2-Fluorophenol	%	56	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	93	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-3							
Job No	Lab ID	A05-2514	A5251401						
Sample Date		03/21/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	11.0	1.5	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Date: 03/25/2005 15:08:50
Batch No: A5B03788

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5251401 A5251401MS A5251401SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	11.02	37.18	32.74	26.85	23.14	97	94	96	3	20.0	80-120

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Client ID		METHANOL BLK 032305		VBLK90		VBLK91			
Job No / Lab ID		A05-2514	A5251402	A05-2514	A5B0394002	A05-2514	A5B0395802		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	1200	ND	10	ND	1200	NA	
1,3-Dichlorobenzene	UG/KG	ND	1200	ND	10	ND	1200	NA	
Chlorobenzene	UG/KG	ND	1200	ND	10	ND	1200	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	1200	ND	10	ND	1200	NA	
IS/SURROGATE(S)									
Bromochloromethane	%	91	50-200	80	50-200	86	50-200	NA	
1,4-Difluorobenzene	%	94	50-200	83	50-200	85	50-200	NA	
Chlorobenzene-D5	%	88	50-200	85	50-200	82	50-200	NA	
p-Bromofluorobenzene	%	94	59-113	93	59-113	95	59-113	NA	
1,2-Dichloroethane-D4	%	97	70-121	102	70-121	105	70-121	NA	
Toluene-D8	%	89	84-138	100	84-138	106	84-138	NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB90		MSB91					
Job No	Lab ID	A05-2514	A5B0394001	A05-2514	A5B0395801				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	10	ND	1200	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	10	ND	1200	NA		NA	
Chlorobenzene	UG/KG	48	10	6200	1200	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	10	ND	1200	NA		NA	
IS/SURROGATE(S)									
Bromochloromethane	%	84	50-200	89	50-200	NA		NA	
1,4-Difluorobenzene	%	84	50-200	100	50-200	NA		NA	
Chlorobenzene-D5	%	87	50-200	85	50-200	NA		NA	
p-Bromofluorobenzene	%	93	59-113	98	59-113	NA		NA	
1,2-Dichloroethane-D4	%	105	70-121	104	70-121	NA		NA	
Toluene-D8	%	99	84-138	103	84-138	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-2514	A5B0372102						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	NA		NA		NA	
Nitrobenzene	UG/KG	ND	320	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	102	50-200	NA		NA		NA	
Naphthalene-D8	%	108	50-200	NA		NA		NA	
Acenaphthene-D10	%	107	50-200	NA		NA		NA	
Phenanthrene-D10	%	105	50-200	NA		NA		NA	
Chrysene-D12	%	111	50-200	NA		NA		NA	
Perylene-D12	%	115	50-200	NA		NA		NA	
Nitrobenzene-D5	%	74	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	78	36-138	NA		NA		NA	
p-Terphenyl-d14	%	89	41-167	NA		NA		NA	
Phenol-D5	%	67	34-120	NA		NA		NA	
2-Fluorophenol	%	63	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	88	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-2514 A5B0378802							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		BS-3 A05-2514 A5251401MS 03/21/2005		BS-3 A05-2514 A5251401SD 03/21/2005		LCS CLP Soils A05-2514 A5B0378801			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	37.2	1.3	32.7	1.2	109	1.0	NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK90 MSB90
Lab Sample ID: A5B0394002 A5B0394001

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
ASP 2000 - SELECT TIFFT&HOPKINS VOLATIL					
Chlorobenzene	UG/KG	48.2	50.0	96	60-133

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK91 MSB91
Lab Sample ID: A5B0395802 A5B0395801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
ASP 2000 - SELECT TIFFT&HOPKINS VOLATIL					
Chlorobenzene	UG/KG	6230	6250	100	60-133

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/21/2005

Client Sample ID: BS-3 BS-3 BS-3
Lab Sample ID: A5251401 A5251401MS A5251401SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	11.02	37.18	32.74	26.85	23.14	97	94	96	3	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0378802 A5B0378801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	108.8	105.0	104	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

ASP 2000 - SELECT TIFFT&HOPKINS VOLATILES

Client Sample ID Job No & Lab Sample ID	BS-3 A05-2514 A5251401	BS-3 DL A05-2514 A5251401DL			
Sample Date	03/21/2005 14:30	03/21/2005 14:30			
Received Date	03/21/2005 15:10	03/21/2005 15:10			
Extraction Date					
Analysis Date	03/23/2005 11:51	03/24/2005 04:47			
Extraction HT Met?	-	-			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL LOW	SOIL MED			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.08 GRAMS	4.28 GRAMS			
% Dry	76.67	76.67			

NA = Not Applicable

ASP 2000 - SELECT TIFFT&HOPKINS VOLATILES

Client Sample ID Job No & Lab Sample ID	MSB90 A05-2514 A5B0394001	MSB91 A05-2514 A5B0395801			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/23/2005 11:19	03/24/2005 03:13			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL MED			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	4.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

ASP 2000 - SELECT TIFFT&HOPKINS VOLATILES

Client Sample ID Job No & Lab Sample ID	METHANOL BLK 032305 A05-2514 A5251402	VBLK90 A05-2514 A5B0394002	VBLK91 A05-2514 A5B0395802		
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/24/2005 04:16	03/23/2005 10:47	03/24/2005 03:45		
Extraction HT Met?	-	-	-		
Analytical HT Met?	-	-	-		
Sample Matrix	SOIL MED	SOIL LOW	SOIL MED		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	4.05 GRAMS	5.0 GRAMS	4.0 GRAMS		
% Dry	100.00	100.00	100.00		

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	BS-3 A05-2514 A5251401				
Sample Date	03/21/2005 14:30				
Received Date	03/21/2005 15:10				
Extraction Date	03/22/2005 07:00				
Analysis Date	03/22/2005 12:24				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.75 GRAMS				
% Dry	81.84				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SBLK A05-2514 A5B0372102				
Sample Date					
Received Date					
Extraction Date	03/22/2005 07:00				
Analysis Date	03/22/2005 11:59				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.5 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5251401	BS-3	MG/KG	Lead - Total	6010	1.00	03/21/2005 14:30	03/21 15:10	NA	NA	03/23 16:00	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5251401MS	BS-3	MG/KG	Lead - Total	6010	1.00	03/21/2005 14:30	03/21 15:10	NA	NA	03/23 16:08	Yes	SOIL
A5251401SD	BS-3	MG/KG	Lead - Total	6010	1.00	03/21/2005 14:30	03/21 15:10	NA	NA	03/23 16:13	Yes	SOIL
A5B0378802	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 15:10	NA	NA	03/23 15:09	Yes	SOIL
A5B0378801	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 15:10	NA	NA	03/23 15:47	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Honeywell vs parsons	Project Manager: Mark Raybuck	Date: 3/21/05	Chain of Custody Number: 191056
Address: 180 Lawrance Bell Dr	Telephone Number (Area Code)/Fax Number: 716-633-7074 / 716633-7195	Lab Number:	Page 1 of 1
City: Williamsville / State: NY / Zip Code: 14221	Site Contact: Jeff Parsons	Lab Contact: B. Fisher	
Project Name and Location (State): Tift & Hopkins	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 440707.05100			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: Total Lead	Honeywell Costs	Special Instructions/ Conditions of Receipt
BS-3	3/21/05	1430				✓	✓					2	✓	✓	

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☑ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

1. Relinquished By	Date: 3/21/05	Time: 1510	1. Received By	Date: 03-24-05	Time: 1510
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 9.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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ANALYTICAL REPORT

Job#: A05-2563

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/29/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5256301	SW-7	SOIL	03/22/2005	15:00	03/22/2005	16:35

METHODS SUMMARY

Job#: A05-2563

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-2563

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2563
Sample Cooler(s) were received at the following temperature(s); 17.6 °C
Sample SW-7 was received at a temperature of 17.6°C. As the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

The internal standard recovery for Perylene-D12 was below method defined quality control limits in the Method Blank A4B0381503. There are no target analytes associated with this internal standard. Therefore, the data is not affected.

Metals Data

The recovery of sample SW-7 Matrix Spike exhibited results above the quality control limits for Lead. Sample matrix is suspect. The RPD of sample SW-7 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Lead. However, the LCS (A5B0385601) was acceptable.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		SW-7							
Job No	Lab ID	A05-2563	A5256301						
Sample Date		03/22/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	14	6	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	6	NA		NA		NA	
Chlorobenzene	UG/KG	11	6	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	96	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	90	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	88	50-200	NA		NA		NA	
Toluene-D8	%	91	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	87	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	91	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-7							
Job No	Lab ID	A05-2563	A5256301						
Sample Date		03/22/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	380	NA		NA		NA	
Nitrobenzene	UG/KG	ND	380	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	100	50-200	NA		NA		NA	
Naphthalene-D8	%	99	50-200	NA		NA		NA	
Acenaphthene-D10	%	103	50-200	NA		NA		NA	
Phenanthrene-D10	%	104	50-200	NA		NA		NA	
Chrysene-D12	%	128	50-200	NA		NA		NA	
Perylene-D12	%	166	50-200	NA		NA		NA	
Nitrobenzene-D5	%	84	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	90	36-138	NA		NA		NA	
p-Terphenyl-d14	%	78	41-167	NA		NA		NA	
Phenol-D5	%	82	34-120	NA		NA		NA	
2-Fluorophenol	%	78	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	108	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-7							
Job No	Lab ID	A05-2563	A5256301						
Sample Date		03/22/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	40.7	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Date: 03/29/2005 11:09:29
Batch No: A5B03856

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5256301 A5256301MS A5256301SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	40.69	82.64	64.94	23.83	22.28	176 *	109	143	47 *	20.0	80-120

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Client ID		VBLK92							
Job No	Lab ID	A05-2563	A5B0401702						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	86	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	82	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	76	50-200	NA		NA		NA	
Toluene-D8	%	92	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	86	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	86	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB92							
Job No	Lab ID	A05-2563	A5B0401701						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	40	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	40	5	NA		NA		NA	
Chlorobenzene	UG/KG	42	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	39	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	100	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	102	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	99	50-200	NA		NA		NA	
Toluene-D8	%	92	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	91	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	84	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-2563	A5B0381503						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	NA		NA		NA	
Nitrobenzene	UG/KG	ND	320	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	102	50-200	NA		NA		NA	
Naphthalene-D8	%	100	50-200	NA		NA		NA	
Acenaphthene-D10	%	100	50-200	NA		NA		NA	
Phenanthrene-D10	%	98	50-200	NA		NA		NA	
Chrysene-D12	%	96	50-200	NA		NA		NA	
Perylene-D12	%	44 *	50-200	NA		NA		NA	
Nitrobenzene-D5	%	79	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	88	36-138	NA		NA		NA	
p-Terphenyl-d14	%	95	41-167	NA		NA		NA	
Phenol-D5	%	67	34-120	NA		NA		NA	
2-Fluorophenol	%	69	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	88	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A05-2563 A5B0381501		Matrix Spike Blk Dup A05-2563 A5B0381502					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	ND	330	NA		NA	
Nitrobenzene	UG/KG	ND	330	ND	330	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	102	50-200	99	50-200	NA		NA	
Naphthalene-D8	%	99	50-200	101	50-200	NA		NA	
Acenaphthene-D10	%	100	50-200	101	50-200	NA		NA	
Phenanthrene-D10	%	99	50-200	101	50-200	NA		NA	
Chrysene-D12	%	89	50-200	91	50-200	NA		NA	
Perylene-D12	%	99	50-200	101	50-200	NA		NA	
Nitrobenzene-D5	%	85	30-127	89	30-127	NA		NA	
2-Fluorobiphenyl	%	93	36-138	98	36-138	NA		NA	
p-Terphenyl-d14	%	100	41-167	102	41-167	NA		NA	
Phenol-D5	%	82	34-120	90	34-120	NA		NA	
2-Fluorophenol	%	78	26-120	86	26-120	NA		NA	
2,4,6-Tribromophenol	%	95	42-140	100	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-2563 A5B0385602							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		LCS CLP Soils A05-2563 A5B0385601		SW-7 A05-2563 A5256301MS 03/22/2005		SW-7 A05-2563 A5256301SD 03/22/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	91.8	1.0	82.6	1.2	64.9	1.1	NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK92 MSB92
Lab Sample ID: A5B0401702 A5B0401701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	42.4	50.0	85	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/22/2005

Client Sample ID: SW-7 SW-7 SW-7
Lab Sample ID: A5256301 A5256301MS A5256301SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	40.69	82.64	64.94	23.83	22.28	176 *	109	143	47 *	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0385602 A5B0385601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	91.84	105.0	87	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	SW-7				
Job No & Lab Sample ID	A05-2563 A5256301				
Sample Date	03/22/2005 15:00				
Received Date	03/22/2005 16:35				
Extraction Date					
Analysis Date	03/24/2005 22:08				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.12 GRAMS				
% Dry	86.73				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	MSB92				
Job No & Lab Sample ID	A05-2563 A5B0401701				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/24/2005 20:00				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	VBLK92 A05-2563 A5B0401702				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/24/2005 20:32				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID	SW-7				
Job No & Lab Sample ID	A05-2563 A5256301				
Sample Date	03/22/2005 15:00				
Received Date	03/22/2005 16:35				
Extraction Date	03/22/2005 14:00				
Analysis Date	03/23/2005 22:13				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.04 GRAMS				
% Dry	85.81				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2563 A5B0381501	Matrix Spike Blk Dup A05-2563 A5B0381502			
Sample Date					
Received Date					
Extraction Date	03/22/2005 14:00	03/22/2005 14:00			
Analysis Date	03/23/2005 18:45	03/23/2005 19:11			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	30.15 GRAMS	30.31 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SBLK A05-2563 A5B0381503				
Sample Date					
Received Date					
Extraction Date	03/22/2005 14:00				
Analysis Date	03/23/2005 19:37				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.76 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5256301	SW-7	MG/KG	Lead - Total	6010	1.00	03/22/2005 15:00	03/22 16:35	NA	NA	03/24 10:01	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5256301MS	SW-7	MG/KG	Lead - Total	6010	1.00	03/22/2005 15:00	03/22 16:35	NA	NA	03/24 10:10	Yes	SOIL
A5256301SD	SW-7	MG/KG	Lead - Total	6010	1.00	03/22/2005 15:00	03/22 16:35	NA	NA	03/24 10:14	Yes	SOIL
A5B0385602	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 16:35	NA	NA	03/24 09:42	Yes	SOIL
A5B0385601	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 16:35	NA	NA	03/24 09:46	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Honeywell vs parsons	Mark Raybuck	3/22/05	192382
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
180 Lawrence Bell Dr	716-633-7074 / 637-7195		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Williamsville / NY / 14224	Jeff Odsort	B. Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
Tift & Hopkins			
Contract/Purchase Order/Quote No.			
440707.05100			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: Total Lead Honeywell Costs	Special Instructions/ Conditions of Receipt
SW-7	3/22/05	1500				✓	✓					2	✓	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/22/05	1635	1. Received By	03/22/05	1635
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

17.6°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

33/33

ANALYTICAL REPORT

Job#: A05-2615

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/29/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5261501	SW-8	SOIL	03/23/2005	11:00	03/23/2005	18:10

METHODS SUMMARY

Job#: A05-2615

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-2615

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2615
Sample Cooler(s) were received at the following temperature(s); 6.4 °C
Sample SW-8 was received at a temperature of 6.4° C. This sample was analyzed as per instructions from the client. Based on EPA data validation guidelines, there is no impact on data usability.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

The recovery of sample SW-8 Matrix Spike exhibited results below the quality control limits for Lead, and the recovery of sample SW-8 Matrix Spike Duplicate exhibited results above the quality control limits for Lead. The sample result is more than four times greater than the spike added. The RPD of sample SW-8 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Lead. The LCS (A5B0393801) is acceptable.

****

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

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
SW-8	A5261501	8270	5.00	012

Dilution Code Definition:

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		SW-8							
Job No	Lab ID	A05-2615	A5261501						
Sample Date		03/23/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	3 J	6	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	6	NA		NA		NA	
Chlorobenzene	UG/KG	11	6	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	110	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	106	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	105	50-200	NA		NA		NA	
Toluene-D8	%	91	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	88	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	88	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-8							
Job No	Lab ID	A05-2615	A5261501						
Sample Date		03/23/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	1000 J	2000	NA		NA		NA	
Nitrobenzene	UG/KG	ND	2000	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	109	50-200	NA		NA		NA	
Naphthalene-D8	%	111	50-200	NA		NA		NA	
Acenaphthene-D10	%	105	50-200	NA		NA		NA	
Phenanthrene-D10	%	109	50-200	NA		NA		NA	
Chrysene-D12	%	123	50-200	NA		NA		NA	
Perylene-D12	%	152	50-200	NA		NA		NA	
Nitrobenzene-D5	%	81	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	90	36-138	NA		NA		NA	
p-Terphenyl-d14	%	82	41-167	NA		NA		NA	
Phenol-D5	%	71	34-120	NA		NA		NA	
2-Fluorophenol	%	65	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	86	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-8							
Job No	Lab ID	A05-2615	A5261501						
Sample Date		03/23/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	276	0.76	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5261501 A5261501MS A5261501SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	276.2	213.0	516.3	19.92	20.40	-317 *	1180 *	432	347 *	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK92							
Job No	Lab ID	A05-2615	A5B0401702						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	86	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	82	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	76	50-200	NA		NA		NA	
Toluene-D8	%	92	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	86	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	86	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB92							
Job No	Lab ID	A05-2615	A5B0401701						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	40	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	40	5	NA		NA		NA	
Chlorobenzene	UG/KG	42	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	39	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	100	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	102	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	99	50-200	NA		NA		NA	
Toluene-D8	%	92	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	91	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	84	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-2615	A5B0392803						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	110	50-200	NA		NA		NA	
Naphthalene-D8	%	115	50-200	NA		NA		NA	
Acenaphthene-D10	%	111	50-200	NA		NA		NA	
Phenanthrene-D10	%	109	50-200	NA		NA		NA	
Chrysene-D12	%	111	50-200	NA		NA		NA	
Perylene-D12	%	115	50-200	NA		NA		NA	
Nitrobenzene-D5	%	79	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	87	36-138	NA		NA		NA	
p-Terphenyl-d14	%	89	41-167	NA		NA		NA	
Phenol-D5	%	71	34-120	NA		NA		NA	
2-Fluorophenol	%	65	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	90	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Matrix Spike Blank A05-2615 A5B0392801		Matrix Spike Blk Dup A05-2615 A5B0392802					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	ND	330	NA		NA	
Nitrobenzene	UG/KG	ND	330	ND	330	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	117	50-200	109	50-200	NA		NA	
Naphthalene-D8	%	122	50-200	111	50-200	NA		NA	
Acenaphthene-D10	%	118	50-200	108	50-200	NA		NA	
Phenanthrene-D10	%	117	50-200	104	50-200	NA		NA	
Chrysene-D12	%	110	50-200	101	50-200	NA		NA	
Perylene-D12	%	120	50-200	108	50-200	NA		NA	
Nitrobenzene-D5	%	73	30-127	83	30-127	NA		NA	
2-Fluorobiphenyl	%	80	36-138	90	36-138	NA		NA	
p-Terphenyl-d14	%	89	41-167	96	41-167	NA		NA	
Phenol-D5	%	66	34-120	73	34-120	NA		NA	
2-Fluorophenol	%	60	26-120	66	26-120	NA		NA	
2,4,6-Tribromophenol	%	86	42-140	98	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-2615 A5B0393802							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		LCS CLP Soils A05-2615 A5B0393801		SW-8 A05-2615 A5261501MS 03/23/2005		SW-8 A05-2615 A5261501SD 03/23/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	101	1.0	213	1.0	516	1.0	NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK92 MSB92
Lab Sample ID: A5B0401702 A5B0401701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	42.4	50.0	85	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/23/2005

Client Sample ID: SW-8 SW-8 SW-8
Lab Sample ID: A5261501 A5261501MS A5261501SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	276.2	213.0	516.3	19.92	20.40	-317 *	1180 *	432	347 *	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0393802 A5B0393801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	100.8	105.0	96	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	SW-8 A05-2615 A5261501				
Sample Date	03/23/2005 11:00				
Received Date	03/23/2005 18:10				
Extraction Date					
Analysis Date	03/25/2005 01:19				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.05 GRAMS				
% Dry	77.83				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	MSB92				
Job No & Lab Sample ID	A05-2615 A5B0401701				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/24/2005 20:00				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	VBLK92				
Job No & Lab Sample ID	A05-2615 A5B0401702				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/24/2005 20:32				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SW-8 A05-2615 A5261501				
Sample Date	03/23/2005 11:00				
Received Date	03/23/2005 18:10				
Extraction Date	03/24/2005 07:00				
Analysis Date	03/24/2005 16:46				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	5.0				
Sample wt/vol	30.26 GRAMS				
% Dry	80.63				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2615 A5B0392801	Matrix Spike Blk Dup A05-2615 A5B0392802			
Sample Date					
Received Date					
Extraction Date	03/24/2005 07:00	03/24/2005 07:00			
Analysis Date	03/24/2005 15:30	03/24/2005 15:55			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	30.0 GRAMS	30.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID	SBLK				
Job No & Lab Sample ID	A05-2615 A5B0392803				
Sample Date					
Received Date					
Extraction Date	03/24/2005 07:00				
Analysis Date	03/24/2005 16:20				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5261501	SW-8	MG/KG	Lead - Total	6010	1.00	03/23/2005 11:00	03/23 18:10	NA	NA	03/24 12:16	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5261501MS	SW-8	MG/KG	Lead - Total	6010	1.00	03/23/2005 11:00	03/23 18:10	NA	NA	03/24 12:25	Yes	SOIL
A5261501SD	SW-8	MG/KG	Lead - Total	6010	1.00	03/23/2005 11:00	03/23 18:10	NA	NA	03/24 12:29	Yes	SOIL
A5B0393802	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 18:10	NA	NA	03/24 12:07	Yes	SOIL
A5B0393801	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 18:10	NA	NA	03/24 12:12	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
HONEYWELL 40 PARSONS	Raybuck	3/23/05	192381
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
180 LAWRENCE BELL DR			
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
WILLIAMSVILLE ~~NY~~	NY	14221	J PARSONS	B FISCHER
Project Name and Location (State)	**Carrier/Waybill Number**	
Tifft: Hopkins		
Contract/Purchase Order/Quote No.		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: HON COCs	Total lead	Special Instructions/ Conditions of Receipt
SW-8	3/23/05	1100				X	X						✓	✓	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/23/05	1810	1. Received By	03/23/05	1810
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

6.4°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

34/34

ANALYTICAL REPORT

Job#: A05-2736

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/31/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5273601	BS-4	SOIL	03/25/2005	14:30	03/25/2005	16:00

METHODS SUMMARY

Job#: A05-2736

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-2736

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2736
Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		BS-4							
Job No	Lab ID	A05-2736	A5273601						
Sample Date		03/25/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	2 J	6	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	6	NA		NA		NA	
Chlorobenzene	UG/KG	120	6	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	103	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	101	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	95	50-200	NA		NA		NA	
Toluene-D8	%	91	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	90	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	85	61-136	NA		NA		NA	

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NA = Not Applicable ND = Not Detected

Client ID		BS-4							
Job No	Lab ID	A05-2736	A5273601						
Sample Date		03/25/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	1000	380	NA		NA		NA	
Nitrobenzene	UG/KG	ND	380	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	108	50-200	NA		NA		NA	
Naphthalene-D8	%	116	50-200	NA		NA		NA	
Acenaphthene-D10	%	116	50-200	NA		NA		NA	
Phenanthrene-D10	%	113	50-200	NA		NA		NA	
Chrysene-D12	%	124	50-200	NA		NA		NA	
Perylene-D12	%	132	50-200	NA		NA		NA	
Nitrobenzene-D5	%	68	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	72	36-138	NA		NA		NA	
p-Terphenyl-d14	%	82	41-167	NA		NA		NA	
Phenol-D5	%	61	34-120	NA		NA		NA	
2-Fluorophenol	%	56	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	82	42-140	NA		NA		NA	

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NA = Not Applicable ND = Not Detected

Client ID		BS-4							
Job No	Lab ID	A05-2736	A5273601						
Sample Date		03/25/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	10	1.1	NA		NA		NA	

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Batch Quality Control Data

Date: 03/31/2005 12:06:17
Batch No: A5B04139

MS/MSD Batch QC Results

Rept: AN1392

Lab Sample ID: A5269301 A5269301MS A5269301SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS												
TOTAL ARSENIC	MG/KG	4.83	24.77	24.71	24.24	23.84	82	83	83	1	20.0	80-120
TOTAL BARIUM	MG/KG	15.54	35.69	35.16	24.24	23.84	83	82	83	1	20.0	80-120
TOTAL CADMIUM	MG/KG	0	21.03	21.14	24.24	23.84	87	89	88	2	20.0	80-120
TOTAL CHROMIUM	MG/KG	18.39	41.68	43.87	24.24	23.84	96	107	102	11	20.0	80-120
TOTAL LEAD	MG/KG	9.50	30.61	29.82	24.24	23.84	87	85	86	2	20.0	80-120
TOTAL SELENIUM	MG/KG	0.178	13.62	14.38	24.24	23.84	55 *	60 *	58	9	20.0	80-120
TOTAL SILVER	MG/KG	0.0637	5.21	5.20	6.06	5.96	85	86	86	1	20.0	80-120

12/31

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Chronology and QC Summary Package

Client ID		VBLK53							
Job No	Lab ID	A05-2736	A5B0428102						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	82	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	77	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	75	50-200	NA		NA		NA	
Toluene-D8	%	90	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	89	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	88	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB53							
Job No	Lab ID	A05-2736	A5B0428101						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	46	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	44	5	NA		NA		NA	
Chlorobenzene	UG/KG	43	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	46	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	96	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	91	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	91	50-200	NA		NA		NA	
Toluene-D8	%	88	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	85	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	84	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-2736	A5B0410303						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	107	50-200	NA		NA		NA	
Naphthalene-D8	%	116	50-200	NA		NA		NA	
Acenaphthene-D10	%	114	50-200	NA		NA		NA	
Phenanthrene-D10	%	113	50-200	NA		NA		NA	
Chrysene-D12	%	122	50-200	NA		NA		NA	
Perylene-D12	%	124	50-200	NA		NA		NA	
Nitrobenzene-D5	%	78	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	78	36-138	NA		NA		NA	
p-Terphenyl-d14	%	85	41-167	NA		NA		NA	
Phenol-D5	%	68	34-120	NA		NA		NA	
2-Fluorophenol	%	64	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	82	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank		Matrix Spike Blk Dup					
Job No	Lab ID	A05-2736	A5B0410301	A05-2736	A5B0410302				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	ND	330	NA		NA	
Nitrobenzene	UG/KG	ND	320	ND	330	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	104	50-200	109	50-200	NA		NA	
Naphthalene-D8	%	115	50-200	117	50-200	NA		NA	
Acenaphthene-D10	%	112	50-200	116	50-200	NA		NA	
Phenanthrene-D10	%	112	50-200	117	50-200	NA		NA	
Chrysene-D12	%	116	50-200	121	50-200	NA		NA	
Perylene-D12	%	117	50-200	122	50-200	NA		NA	
Nitrobenzene-D5	%	77	30-127	73	30-127	NA		NA	
2-Fluorobiphenyl	%	80	36-138	78	36-138	NA		NA	
p-Terphenyl-d14	%	86	41-167	84	41-167	NA		NA	
Phenol-D5	%	72	34-120	64	34-120	NA		NA	
2-Fluorophenol	%	64	26-120	59	26-120	NA		NA	
2,4,6-Tribromophenol	%	85	42-140	82	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-2736	A5B0413902						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

18/31

NA = Not Applicable ND = Not Detected

Client ID		LCS CLP Soils							
Job No	Lab ID	A05-2736	A5B0413901						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	143	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK53 MSB53
Lab Sample ID: A5B0428102 A5B0428101

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	43.0	50.0	86	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0413902 A5B0413901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	142.6	158.0	90	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	BS-4 A05-2736 A5273601				
Sample Date	03/25/2005 14:30				
Received Date	03/25/2005 16:00				
Extraction Date					
Analysis Date	03/29/2005 15:53				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.02 GRAMS				
% Dry	82.55				

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	MSB53				
Job No & Lab Sample ID	A05-2736 A5B0428101				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/29/2005 09:06				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

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SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID	VBLK53				
Job No & Lab Sample ID	A05-2736 A5B0428102				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/29/2005 10:11				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	BS-4 A05-2736 A5273601				
Sample Date	03/25/2005 14:30				
Received Date	03/25/2005 16:00				
Extraction Date	03/26/2005 09:00				
Analysis Date	03/28/2005 17:20				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.02 GRAMS				
% Dry	86.94				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2736 A5B0410301	Matrix Spike Blk Dup A05-2736 A5B0410302			
Sample Date					
Received Date					
Extraction Date	03/26/2005 09:00	03/26/2005 09:00			
Analysis Date	03/28/2005 16:04	03/28/2005 16:29			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	30.93 GRAMS	30.04 GRAMS			
% Dry	100.00	100.00			

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NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Method Blank A05-2736 A5B0410303				
Sample Date					
Received Date					
Extraction Date	03/26/2005 09:00				
Analysis Date	03/28/2005 16:55				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.21 GRAMS				
% Dry	100.00				

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NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5273601	BS-4	MG/KG	Lead - Total	6010	1.00	03/25/2005 14:30	03/25 16:00	NA	NA	03/28 17:55	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0413902	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 16:00	NA	NA	03/28 17:09	Yes	SOIL
A5B0413901	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 16:00	NA	NA	03/28 17:14	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Honeywell via Parsons	Project Manager: Mark Raybuck	Date: 3/25/05	Chain of Custody Number: 140558
Address: 180 Lawrence Bell Dr.	Telephone Number (Area Code)/Fax Number: 716 432 7685	Lab Number:	Page ____ of ____
City: Williamsville / State: NY / Zip Code: 14221	Site Contact: J Poulsen	Lab Contact: B. Fisher	
Project Name and Location (State): Tifft / Hopkins	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: HSW Cocs	Dotted Lead	Special Instructions/ Conditions of Receipt
BS-4	3/25/05	1430				X	X						VV		

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/25/05	1600	1. Received By STL	3-25-05	16:00
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

4.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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ANALYTICAL REPORT

Job#: A05-2780

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

03/31/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5278001	BS-5	SOIL	03/28/2005	16:00	03/28/2005	17:15

METHODS SUMMARY

Job#: A05-2780

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-2780

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2780
Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

GC/MS Volatile Data

Sample BS-5 DL was analyzed using medium level techniques due to high concentrations of target analytes.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

The recovery of sample BS-5 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limit for Lead. Sample matrix is suspect. However, the LCS (A5B0420501) was acceptable.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID	BS-5		BS-5 DL					
Job No / Lab ID	A05-2780	A5278001	A05-2780	A5278001DL				
Sample Date	03/28/2005		03/28/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	6	ND	740	NA		NA	
1,3-Dichlorobenzene	UG/KG	14	6	ND	740	NA		NA	
Chlorobenzene	UG/KG	760 E	6	2800 D	740	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	740	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	94	50-200	94	50-200	NA		NA	
1,4-Difluorobenzene	%	88	50-200	93	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	88	50-200	94	50-200	NA		NA	
Toluene-D8	%	87	71-125	114	71-125	NA		NA	
p-Bromofluorobenzene	%	90	68-124	115	68-124	NA		NA	
1,2-Dichloroethane-D4	%	79	61-136	117	61-136	NA		NA	

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NA = Not Applicable ND = Not Detected

Client ID		BS-5							
Job No	Lab ID	A05-2780	A5278001						
Sample Date		03/28/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	420	390	NA		NA		NA	
Nitrobenzene	UG/KG	ND	390	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	92	50-200	NA		NA		NA	
Naphthalene-D8	%	98	50-200	NA		NA		NA	
Acenaphthene-D10	%	98	50-200	NA		NA		NA	
Phenanthrene-D10	%	90	50-200	NA		NA		NA	
Chrysene-D12	%	95	50-200	NA		NA		NA	
Perylene-D12	%	98	50-200	NA		NA		NA	
Nitrobenzene-D5	%	67	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	87	36-138	NA		NA		NA	
p-Terphenyl-d14	%	94	41-167	NA		NA		NA	
Phenol-D5	%	67	34-120	NA		NA		NA	
2-Fluorophenol	%	58	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	110	42-140	NA		NA		NA	

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NA = Not Applicable ND = Not Detected

Client ID		BS-5							
Job No	Lab ID	A05-2780	A5278001						
Sample Date		03/28/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	16.9	1.2	NA		NA		NA	

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Chronology and QC Summary Package

Client ID Job No Lab ID Sample Date		METHANOL BLK A05-2780 A5278002		VBLK47 A05-2780 A5B0434708		VBLK53 A05-2780 A5B0428102			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	600	ND	620	ND	5	NA	
1,3-Dichlorobenzene	UG/KG	ND	600	ND	620	ND	5	NA	
Chlorobenzene	UG/KG	ND	600	ND	620	ND	5	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	600	ND	620	ND	5	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	102	50-200	104	50-200	82	50-200	NA	
1,4-Difluorobenzene	%	98	50-200	104	50-200	77	50-200	NA	
1,4-Dichlorobenzene-D4	%	106	50-200	101	50-200	75	50-200	NA	
Toluene-D8	%	104	71-125	105	71-125	90	71-125	NA	
p-Bromofluorobenzene	%	107	68-124	107	68-124	89	68-124	NA	
1,2-Dichloroethane-D4	%	108	61-136	109	61-136	88	61-136	NA	

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Client ID		MSB47		MSB53					
Job No	Lab ID	A05-2780	A5B0434707	A05-2780	A5B0428101				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	6200	620	46	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	6100	620	44	5	NA		NA	
Chlorobenzene	UG/KG	6400	620	43	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	6300	620	46	5	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	105	50-200	96	50-200	NA		NA	
1,4-Difluorobenzene	%	108	50-200	91	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	108	50-200	91	50-200	NA		NA	
Toluene-D8	%	115	71-125	88	71-125	NA		NA	
p-Bromofluorobenzene	%	117	68-124	85	68-124	NA		NA	
1,2-Dichloroethane-D4	%	111	61-136	84	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-2780	A5B0421003						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	92	50-200	NA		NA		NA	
Naphthalene-D8	%	102	50-200	NA		NA		NA	
Acenaphthene-D10	%	100	50-200	NA		NA		NA	
Phenanthrene-D10	%	94	50-200	NA		NA		NA	
Chrysene-D12	%	96	50-200	NA		NA		NA	
Perylene-D12	%	98	50-200	NA		NA		NA	
Nitrobenzene-D5	%	73	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	85	36-138	NA		NA		NA	
p-Terphenyl-d14	%	93	41-167	NA		NA		NA	
Phenol-D5	%	74	34-120	NA		NA		NA	
2-Fluorophenol	%	66	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	102	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank		Matrix Spike Blk Dup					
Job No	Lab ID	A05-2780	A5B0421001	A05-2780	A5B0421002				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	ND	330	NA		NA	
Nitrobenzene	UG/KG	ND	320	ND	330	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	92	50-200	91	50-200	NA		NA	
Naphthalene-D8	%	99	50-200	103	50-200	NA		NA	
Acenaphthene-D10	%	98	50-200	103	50-200	NA		NA	
Phenanthrene-D10	%	95	50-200	98	50-200	NA		NA	
Chrysene-D12	%	93	50-200	98	50-200	NA		NA	
Perylene-D12	%	98	50-200	102	50-200	NA		NA	
Nitrobenzene-D5	%	56	30-127	69	30-127	NA		NA	
2-Fluorobiphenyl	%	76	36-138	84	36-138	NA		NA	
p-Terphenyl-d14	%	94	41-167	95	41-167	NA		NA	
Phenol-D5	%	55	34-120	68	34-120	NA		NA	
2-Fluorophenol	%	49	26-120	60	26-120	NA		NA	
2,4,6-Tribromophenol	%	103	42-140	103	42-140	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-2780	A5B0420502						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

16/31

NA = Not Applicable ND = Not Detected

Client ID		BS-5		BS-5		LCS CLP Soils			
Job No	Lab ID	A05-2780	A5278001MS	A05-2780	A5278001SD	A05-2780	A5B0420501		
Sample Date		03/28/2005		03/28/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	31.9	1.2	32.3	1.1	148	1.0	NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK47 MSB47
Lab Sample ID: A5B0434708 A5B0434707

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	6422	6250	103	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK53 MSB53
Lab Sample ID: A5B0428102 A5B0428101

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	43.0	50.0	86	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/28/2005

Client Sample ID: BS-5 BS-5 BS-5
Lab Sample ID: A5278001 A5278001MS A5278001SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	16.87	31.90	32.27	23.48	22.83	64 *	67 *	66	4	20.0	80-120

20/31

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0420502 A5B0420501

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	148.5	158.0	94	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	BS-5 A05-2780 A5278001	BS-5 DL A05-2780 A5278001DL			
Sample Date	03/28/2005 16:00	03/28/2005 16:00			
Received Date	03/28/2005 17:15	03/28/2005 17:15			
Extraction Date					
Analysis Date	03/29/2005 16:58	03/30/2005 21:02			
Extraction HT Met?	-	-			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL LOW	SOIL MED			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.01 GRAMS	4.12 GRAMS			
% Dry	82.33	82.33			

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	MSB47 A05-2780 A5B0434707	MSB53 A05-2780 A5B0428101			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/30/2005 19:34	03/29/2005 09:06			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL MED	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	4.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

23/31

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	METHANOL BLK A05-2780 A5278002	VBLK47 A05-2780 A5B0434708	VBLK53 A05-2780 A5B0428102		
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/30/2005 20:45	03/30/2005 20:09	03/29/2005 10:11		
Extraction HT Met?	-	-	-		
Analytical HT Met?	-	-	-		
Sample Matrix	SOIL MED	SOIL MED	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	4.16 GRAMS	4.0 GRAMS	5.0 GRAMS		
% Dry	100.00	100.00	100.00		

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	BS-5 A05-2780 A5278001				
Sample Date	03/28/2005 16:00				
Received Date	03/28/2005 17:15				
Extraction Date	03/29/2005 14:00				
Analysis Date	03/30/2005 11:29				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.74 GRAMS				
% Dry	81.56				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2780 A5B0421001	Matrix Spike Blk Dup A05-2780 A5B0421002			
Sample Date					
Received Date					
Extraction Date	03/29/2005 14:00	03/29/2005 14:00			
Analysis Date	03/30/2005 10:10	03/30/2005 10:36			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	30.82 GRAMS	30.22 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID	SBLK				
Job No & Lab Sample ID	A05-2780 A5B0421003				
Sample Date					
Received Date					
Extraction Date	03/29/2005 14:00				
Analysis Date	03/30/2005 11:03				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.03 GRAMS				
% Dry	100.00				

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Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5278001	BS-5	MG/KG	Lead - Total	6010	1.00	03/28/2005 16:00	03/28 17:15	NA	NA	03/30 11:05	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5278001MS	BS-5	MG/KG	Lead - Total	6010	1.00	03/28/2005 16:00	03/28 17:15	NA	NA	03/30 11:14	Yes	SOIL
A5278001SD	BS-5	MG/KG	Lead - Total	6010	1.00	03/28/2005 16:00	03/28 17:15	NA	NA	03/30 11:18	Yes	SOIL
A5B0420502	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 17:15	NA	NA	03/30 10:52	Yes	SOIL
A5B0420501	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 17:15	NA	NA	03/30 10:56	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
HONEYWELL C/O PARSONS	MARK RAYBUCK	3/28/05	140557
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
180 LAWRENCE BELL DR	(716) 432 7685		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
WILLIAMSVILLE / NY / 14221	J. Poulsen	B. Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
TIFFT & HOPKINS			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: 1 Hex-Cocs	1 Lead	Special Instructions/ Conditions of Receipt
BS-5	3/28/05	1600				1	1						1	1	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/28/05	1715	1. Received By	3-28-05	17:15
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 6.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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ANALYTICAL REPORT

Job#: A05-2819

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

04/04/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A5281902	SW-1A	SOIL	03/29/2005	16:00	03/29/2005	17:25
A5281903	SW-1B	SOIL	03/29/2005	16:05	03/29/2005	17:25
A5281904	SW-1C	SOIL	03/29/2005	16:10	03/29/2005	17:25
A5281905	SW-1D	SOIL	03/29/2005	16:15	03/29/2005	17:25
A5281906	SW-1E	SOIL	03/29/2005	16:20	03/29/2005	17:25
A5281907	SW-1F	SOIL	03/29/2005	16:25	03/29/2005	17:25
A5281901	SW-9	SOIL	03/29/2005	16:30	03/29/2005	17:25

METHODS SUMMARY

Job#: A05-2819

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-2819

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2819
Sample Cooler(s) were received at the following temperature(s); 13.2 NOICE °C
All samples were received at a temperature of >10°C. Since the all points were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

The analyte Chlorobenzene was detected in the Method Blank VBLK26 (A5B0436502) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Sample SW-9 DL was analyzed using medium level techniques due to high concentrations of target analytes.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

The recovery of sample SW-9 Matrix Spike Duplicate exhibited results above the quality control limits for Lead. Sample matrix is suspect. The RPD of sample SW-9 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Lead. However, the LCS (A5B0422801) was acceptable.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		SW-1A		SW-1B		SW-1C		SW-1D	
Job No	Lab ID	A05-2819	A5281902	A05-2819	A5281903	A05-2819	A5281904	A05-2819	A5281905
Sample Date		03/29/2005		03/29/2005		03/29/2005		03/29/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	8
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	8
Chlorobenzene	UG/KG	6	6	190 B	6	99 B	6	3 BJ	8
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	ND	6	ND	8
IS/SURROGATE(S)									
Chlorobenzene-D5	%	90	50-200	65	50-200	96	50-200	95	50-200
1,4-Difluorobenzene	%	90	50-200	61	50-200	93	50-200	92	50-200
1,4-Dichlorobenzene-D4	%	89	50-200	66	50-200	94	50-200	94	50-200
Toluene-D8	%	108	71-125	101	71-125	103	71-125	103	71-125
p-Bromofluorobenzene	%	98	68-124	108	68-124	102	68-124	103	68-124
1,2-Dichloroethane-D4	%	115	61-136	107	61-136	98	61-136	102	61-136

Client ID		SW-1E		SW-1F		SW-9		SW-9 DL	
Job No	Lab ID	A05-2819	A5281906	A05-2819	A5281907	A05-2819	A5281901	A05-2819	A5281901DL
Sample Date		03/29/2005		03/29/2005		03/29/2005		03/29/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	6	ND	8	23	6	260 DJ	780
1,3-Dichlorobenzene	UG/KG	ND	6	ND	8	3 J	6	ND	780
Chlorobenzene	UG/KG	ND	6	ND	8	380 BE	6	4100 D	780
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	8	ND	6	ND	780
IS/SURROGATE(S)									
Chlorobenzene-D5	%	94	50-200	92	50-200	99	50-200	102	50-200
1,4-Difluorobenzene	%	91	50-200	89	50-200	99	50-200	102	50-200
1,4-Dichlorobenzene-D4	%	94	50-200	89	50-200	96	50-200	102	50-200
Toluene-D8	%	104	71-125	104	71-125	105	71-125	104	71-125
p-Bromofluorobenzene	%	103	68-124	102	68-124	101	68-124	105	68-124
1,2-Dichloroethane-D4	%	101	61-136	102	61-136	95	61-136	105	61-136

NA = Not Applicable ND = Not Detected

Client ID		SW-1A		SW-1B		SW-1C		SW-1D	
Job No / Lab ID		A05-2819	A5281902	A05-2819	A5281903	A05-2819	A5281904	A05-2819	A5281905
Sample Date		03/29/2005		03/29/2005		03/29/2005		03/29/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	400	220 J	380	ND	470	ND	530
Nitrobenzene	UG/KG	ND	400	ND	380	ND	470	ND	530
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	95	50-200	87	50-200	92	50-200	97	50-200
Naphthalene-D8	%	103	50-200	96	50-200	101	50-200	106	50-200
Acenaphthene-D10	%	105	50-200	98	50-200	102	50-200	108	50-200
Phenanthrene-D10	%	107	50-200	97	50-200	96	50-200	101	50-200
Chrysene-D12	%	144	50-200	120	50-200	138	50-200	142	50-200
Perylene-D12	%	111	50-200	123	50-200	111	50-200	122	50-200
Nitrobenzene-D5	%	75	30-127	68	30-127	71	30-127	72	30-127
2-Fluorobiphenyl	%	84	36-138	86	36-138	85	36-138	84	36-138
p-Terphenyl-d14	%	70	41-167	80	41-167	71	41-167	71	41-167
Phenol-D5	%	73	34-120	70	34-120	71	34-120	71	34-120
2-Fluorophenol	%	62	26-120	56	26-120	61	26-120	62	26-120
2,4,6-Tribromophenol	%	93	42-140	106	42-140	106	42-140	105	42-140

Client ID		SW-1E		SW-1F		SW-9			
Job No / Lab ID		A05-2819	A5281906	A05-2819	A5281907	A05-2819	A5281901		
Sample Date		03/29/2005		03/29/2005		03/29/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	380	ND	480	640	460	NA	
Nitrobenzene	UG/KG	ND	380	ND	480	ND	460	NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	93	50-200	99	50-200	97	50-200	NA	
Naphthalene-D8	%	102	50-200	109	50-200	106	50-200	NA	
Acenaphthene-D10	%	104	50-200	112	50-200	108	50-200	NA	
Phenanthrene-D10	%	105	50-200	106	50-200	106	50-200	NA	
Chrysene-D12	%	139	50-200	142	50-200	116	50-200	NA	
Perylene-D12	%	105	50-200	118	50-200	152	50-200	NA	
Nitrobenzene-D5	%	74	30-127	68	30-127	72	30-127	NA	
2-Fluorobiphenyl	%	85	36-138	77	36-138	87	36-138	NA	
p-Terphenyl-d14	%	71	41-167	69	41-167	82	41-167	NA	
Phenol-D5	%	74	34-120	69	34-120	73	34-120	NA	
2-Fluorophenol	%	63	26-120	61	26-120	59	26-120	NA	
2,4,6-Tribromophenol	%	93	42-140	104	42-140	100	42-140	NA	

NA = Not Applicable ND = Not Detected

Client ID		SW-1A		SW-1B		SW-1C		SW-1D	
Job No	Lab ID	A05-2819	A5281902	A05-2819	A5281903	A05-2819	A5281904	A05-2819	A5281905
Sample Date		03/29/2005		03/29/2005		03/29/2005		03/29/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	192	1.0	10.6	1.1	47.6	1.5	239	1.9

Client ID		SW-1E		SW-1F		SW-9			
Job No	Lab ID	A05-2819	A5281906	A05-2819	A5281907	A05-2819	A5281901		
Sample Date		03/29/2005		03/29/2005		03/29/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	263	0.87	46.1	1.8	24.8	1.2	NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5281901 A5281901MS A5281901SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	24.81	48.47	96.79	24.23	34.78	98	207 *	153	71 *	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		METHANOL BLK 033105		VBLK26		VBLK27		VBLK48	
Job No	Lab ID	A05-2819	A5281908	A05-2819	A5B0436502	A05-2819	A5B0436602	A05-2819	A5B0443710
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	610	ND	5	ND	5	ND	620
1,3-Dichlorobenzene	UG/KG	ND	610	ND	5	ND	5	ND	620
Chlorobenzene	UG/KG	ND	610	1 J	5	ND	5	ND	620
1,2,4-Trichlorobenzene	UG/KG	ND	610	ND	5	ND	5	ND	620
IS/SURROGATE(S)									
Chlorobenzene-D5	%	84	50-200	98	50-200	92	50-200	94	50-200
1,4-Difluorobenzene	%	85	50-200	96	50-200	92	50-200	95	50-200
1,4-Dichlorobenzene-D4	%	87	50-200	100	50-200	91	50-200	95	50-200
Toluene-D8	%	110	71-125	104	71-125	107	71-125	104	71-125
p-Bromofluorobenzene	%	112	68-124	102	68-124	101	68-124	106	68-124
1,2-Dichloroethane-D4	%	112	61-136	96	61-136	106	61-136	108	61-136

Client ID		VBLK49							
Job No	Lab ID	A05-2819	A5B0443708						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	620	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	620	NA		NA		NA	
Chlorobenzene	UG/KG	ND	620	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	620	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	97	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	97	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	94	50-200	NA		NA		NA	
Toluene-D8	%	114	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	114	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	117	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB26		MSB27		MSB48		MSB49	
Job No	Lab ID	A05-2819	A5B0436501	A05-2819	A5B0436601	A05-2819	A5B0443709	A05-2819	A5B0443707
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	5800	620	6300	620
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	5700	620	6100	620
Chlorobenzene	UG/KG	50 B	5	49	5	6200	620	6700	620
1,2,4-Trichlorobenzene	UG/KG	1 J	5	1 J	5	5800	620	5900	620
IS/SURROGATE(S)									
Chlorobenzene-D5	%	99	50-200	96	50-200	93	50-200	96	50-200
1,4-Difluorobenzene	%	98	50-200	96	50-200	98	50-200	98	50-200
1,4-Dichlorobenzene-D4	%	99	50-200	97	50-200	97	50-200	99	50-200
Toluene-D8	%	107	71-125	108	71-125	114	71-125	119	71-125
p-Bromofluorobenzene	%	105	68-124	102	68-124	117	68-124	121	68-124
1,2-Dichloroethane-D4	%	95	61-136	107	61-136	111	61-136	116	61-136

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-2819	A5B0422902						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	96	50-200	NA		NA		NA	
Naphthalene-D8	%	104	50-200	NA		NA		NA	
Acenaphthene-D10	%	105	50-200	NA		NA		NA	
Phenanthrene-D10	%	100	50-200	NA		NA		NA	
Chrysene-D12	%	104	50-200	NA		NA		NA	
Perylene-D12	%	127	50-200	NA		NA		NA	
Nitrobenzene-D5	%	73	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	84	36-138	NA		NA		NA	
p-Terphenyl-d14	%	94	41-167	NA		NA		NA	
Phenol-D5	%	72	34-120	NA		NA		NA	
2-Fluorophenol	%	65	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	104	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank		SW-1B		SW-1B			
Job No	Lab ID	A05-2819	A5B0422901	A05-2819	A5281903MS	A05-2819	A5281903SD		
Sample Date				03/29/2005		03/29/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	200 J	380	140 J	380	NA	
Nitrobenzene	UG/KG	ND	330	ND	380	ND	380	NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	90	50-200	104	50-200	93	50-200	NA	
Naphthalene-D8	%	98	50-200	115	50-200	101	50-200	NA	
Acenaphthene-D10	%	100	50-200	117	50-200	103	50-200	NA	
Phenanthrene-D10	%	98	50-200	118	50-200	103	50-200	NA	
Chrysene-D12	%	100	50-200	146	50-200	135	50-200	NA	
Perylene-D12	%	122	50-200	132	50-200	116	50-200	NA	
Nitrobenzene-D5	%	77	30-127	69	30-127	75	30-127	NA	
2-Fluorobiphenyl	%	90	36-138	83	36-138	86	36-138	NA	
p-Terphenyl-d14	%	95	41-167	71	41-167	74	41-167	NA	
Phenol-D5	%	73	34-120	68	34-120	73	34-120	NA	
2-Fluorophenol	%	65	26-120	57	26-120	64	26-120	NA	
2,4,6-Tribromophenol	%	110	42-140	96	42-140	102	42-140	NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-2819 A5B0422802							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS CLP Soils		SW-9		SW-9			
Job No	Lab ID	A05-2819	A5B0422801	A05-2819	A5281901MS	A05-2819	A5281901SD		
Sample Date				03/29/2005		03/29/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	162	1.0	48.5	1.2	96.8	1.7	NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK26 MSB26
Lab Sample ID: A5B0436502 A5B0436501

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	50.3	50.0	98	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK27 MSB27
Lab Sample ID: A5B0436602 A5B0436601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	48.8	50.0	98	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK48 MSB48
Lab Sample ID: A5B0443710 A5B0443709

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	6183	6250	99	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK49 MSB49
Lab Sample ID: A5B0443708 A5B0443707

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	6737	6250	108	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/29/2005

Client Sample ID: SW-9 SW-9 SW-9
Lab Sample ID: A5281901 A5281901MS A5281901SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	24.81	48.47	96.79	24.23	34.78	98	207 *	153	71 *	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0422802 A5B0422801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	162.2	158.0	103	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	SW-1A A05-2819 A5281902	SW-1B A05-2819 A5281903	SW-1C A05-2819 A5281904	SW-1D A05-2819 A5281905	SW-1E A05-2819 A5281906
Sample Date	03/29/2005 16:00	03/29/2005 16:05	03/29/2005 16:10	03/29/2005 16:15	03/29/2005 16:20
Received Date	03/29/2005 17:25	03/29/2005 17:25	03/29/2005 17:25	03/29/2005 17:25	03/29/2005 17:25
Extraction Date					
Analysis Date	03/31/2005 12:46	03/30/2005 19:30	03/30/2005 20:03	03/30/2005 20:36	03/30/2005 21:09
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW	SOIL LOW	SOIL LOW
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	5.1 GRAMS	5.03 GRAMS	5.01 GRAMS	5.17 GRAMS	5.04 GRAMS
% Dry	87.68	83.21	77.21	60.60	81.31

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	SW-1F A05-2819 A5281907	SW-9 A05-2819 A5281901	SW-9 DL A05-2819 A5281901DL		
Sample Date	03/29/2005 16:25	03/29/2005 16:30	03/29/2005 16:30		
Received Date	03/29/2005 17:25	03/29/2005 17:25	03/29/2005 17:25		
Extraction Date					
Analysis Date	03/30/2005 21:42	03/30/2005 18:24	03/31/2005 22:12		
Extraction HT Met?	-	-	-		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL MED		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	5.14 GRAMS	5.07 GRAMS	4.07 GRAMS		
% Dry	64.00	78.26	78.26		

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	MSB26 A05-2819 A5B0436501	MSB27 A05-2819 A5B0436601	MSB48 A05-2819 A5B0443709	MSB49 A05-2819 A5B0443707	
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/30/2005 11:24	03/31/2005 10:42	03/31/2005 19:07	03/31/2005 19:24	
Extraction HT Met?	-	-	-	-	
Analytical HT Met?	-	-	-	-	
Sample Matrix	SOIL LOW	SOIL LOW	SOIL MED	SOIL MED	
Dilution Factor	1.0	1.0	1.0	1.0	
Sample wt/vol	5.0 GRAMS	5.0 GRAMS	4.0 GRAMS	4.0 GRAMS	
% Dry	100.00	100.00	100.00	100.00	

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	METHANOL BLK 033105 A05-2819 A5281908	VBLK26 A05-2819 A5B0436502	VBLK27 A05-2819 A5B0436602	VBLK48 A05-2819 A5B0443710	VBLK49 A05-2819 A5B0443708
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/31/2005 21:54	03/30/2005 11:57	03/31/2005 11:15	03/31/2005 19:42	03/31/2005 20:00
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	-	-	-	-	-
Sample Matrix	SOIL MED	SOIL LOW	SOIL LOW	SOIL MED	SOIL MED
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	4.07 GRAMS	5.0 GRAMS	5.0 GRAMS	4.0 GRAMS	4.0 GRAMS
% Dry	100.00	100.00	100.00	100.00	100.00

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SW-1A A05-2819 A5281902	SW-1B A05-2819 A5281903	SW-1C A05-2819 A5281904	SW-1D A05-2819 A5281905	SW-1E A05-2819 A5281906
Sample Date	03/29/2005 16:00	03/29/2005 16:05	03/29/2005 16:10	03/29/2005 16:15	03/29/2005 16:20
Received Date	03/29/2005 17:25	03/29/2005 17:25	03/29/2005 17:25	03/29/2005 17:25	03/29/2005 17:25
Extraction Date	03/30/2005 07:00	03/30/2005 07:00	03/30/2005 07:00	03/30/2005 07:00	03/30/2005 07:00
Analysis Date	03/30/2005 17:35	03/30/2005 18:02	03/30/2005 19:20	03/30/2005 19:46	03/30/2005 20:13
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW	SOIL LOW	SOIL LOW
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	30.74 GRAMS	30.18 GRAMS	30.44 GRAMS	30.21 GRAMS	30.1 GRAMS
% Dry	80.52	86.24	69.38	61.73	86.26

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SW-1F A05-2819 A5281907	SW-9 A05-2819 A5281901			
Sample Date	03/29/2005 16:25	03/29/2005 16:30			
Received Date	03/29/2005 17:25	03/29/2005 17:25			
Extraction Date	03/30/2005 07:00	03/30/2005 07:00			
Analysis Date	03/30/2005 20:39	03/30/2005 17:09			
Extraction HT Met?	YES	YES			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	30.57 GRAMS	30.11 GRAMS			
% Dry	67.30	71.88			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2819 A5B0422901	SW-1B A05-2819 A5281903MS	SW-1B A05-2819 A5281903SD		
Sample Date		03/29/2005 16:05	03/29/2005 16:05		
Received Date		03/29/2005 17:25	03/29/2005 17:25		
Extraction Date	03/30/2005 07:00	03/30/2005 07:00	03/30/2005 07:00		
Analysis Date	03/30/2005 16:17	03/30/2005 18:28	03/30/2005 18:54		
Extraction HT Met?	-	YES	YES		
Analytical HT Met?	-	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	30.0 GRAMS	30.28 GRAMS	30.11 GRAMS		
% Dry	100.00	86.24	86.24		

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SBLK A05-2819 A5B0422902				
Sample Date					
Received Date					
Extraction Date	03/30/2005 07:00				
Analysis Date	03/30/2005 16:43				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.05 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5281902	SW-1A	MG/KG	Lead - Total	6010	1.00	03/29/2005 16:00	03/29 17:25	NA	NA	03/30 13:55	Yes	SOIL
A5281903	SW-1B	MG/KG	Lead - Total	6010	1.00	03/29/2005 16:05	03/29 17:25	NA	NA	03/30 14:00	Yes	SOIL
A5281904	SW-1C	MG/KG	Lead - Total	6010	1.00	03/29/2005 16:10	03/29 17:25	NA	NA	03/30 14:04	Yes	SOIL
A5281905	SW-1D	MG/KG	Lead - Total	6010	1.00	03/29/2005 16:15	03/29 17:25	NA	NA	03/30 14:08	Yes	SOIL
A5281906	SW-1E	MG/KG	Lead - Total	6010	1.00	03/29/2005 16:20	03/29 17:25	NA	NA	03/30 14:13	Yes	SOIL
A5281907	SW-1F	MG/KG	Lead - Total	6010	1.00	03/29/2005 16:25	03/29 17:25	NA	NA	03/30 14:17	Yes	SOIL
A5281901	SW-9	MG/KG	Lead - Total	6010	1.00	03/29/2005 16:30	03/29 17:25	NA	NA	03/30 13:26	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5281901MS	SW-9	MG/KG	Lead - Total	6010	1.00	03/29/2005 16:30	03/29 17:25	NA	NA	03/30 13:46	Yes	SOIL
A5281901SD	SW-9	MG/KG	Lead - Total	6010	1.00	03/29/2005 16:30	03/29 17:25	NA	NA	03/30 13:51	Yes	SOIL
A5B0422802	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 17:25	NA	NA	03/30 13:17	Yes	SOIL
A5B0422801	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 17:25	NA	NA	03/30 13:22	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
HONEYWELL C/O PARSONS	Mark Roybuck	3/29/05	190800
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
180 Lawrence Bell Dr.	716 432 7685		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Williamsville / NY / 14221	J. Poulsen	B. Fischer	
Project Name and Location (State)	**Carrier/Waybill Number**		
TAFT : Hopkins			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: HOV - COCs	Lead	Special Instructions/ Conditions of Receipt
SW-9	3/29/05	1630				X	X								
SW-1a		1600													
SW-1b		1605													
SW-1c		1610													
SW-1d		1615													
SW-1e		1620													
SW-1f		1625													

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/29/05	1725	1. Received By SR	03/29/05	1725
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

13.2°C

NOICE

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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ANALYTICAL REPORT

Job#: A05-2879

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

04/04/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5287901	BS-4A	SOIL	03/30/2005	11:30	03/30/2005	17:20
A5287903	SW-2A	SOIL	03/30/2005	10:05	03/30/2005	17:20
A5287902	SW-2B	SOIL	03/30/2005	10:00	03/30/2005	17:20
A5287904	SW-2C	SOIL	03/30/2005	10:10	03/30/2005	17:20

METHODS SUMMARY

Job#: A05-2879

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-2879

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2879
Sample Cooler(s) were received at the following temperature(s); 14.8 °C
All samples were received at a temperature of >10°C. As the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

The analyte Chlorobenzene was detected in the Method Blank VBLK28 (A5B0444601) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The spike recovery of the analyte Chlorobenzene in the Matrix Spike and the Matrix Spike Duplicate of sample BS-4A exceeded quality control limits. The Matrix Spike Blank recoveries were compliant, so no corrective action is required.

Sample SW-2A was analyzed using medium level techniques due to high concentrations of target analytes.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

The internal standard recovery for Chrysene-D12 was above method defined quality control limits in the sample SW-2A due to visible chromatographic matrix interference. All detections for analytes associated with this internal standard should be considered biased high.

The surrogate recovery for p-Terphenyl-d14 was below the laboratory quality control limits for sample SW-2A due visible chromatographic matrix interference. Based on US EPA CLP National Functional Guidelines for Data Review, one surrogate in either fraction (base/neutral or acid fraction) may have a recovery outside of the control limit. All analytes associated with that surrogate should be considered biased low.

Metals Data

Due to possible sample matrix interference or analyst oversight, the recovery of sample BS-4A Matrix Spike and Matrix Spike Duplicate exhibited results below quality control limits for Lead. The RPD of sample BS-4A Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Lead. However, the LCS (A5B0429801) was acceptable.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID	BS-4A		SW-2A		SW-2B		SW-2C	
Job No Lab ID	A05-2879 A5287901		A05-2879 A5287903		A05-2879 A5287902		A05-2879 A5287904	
Sample Date	03/30/2005		03/30/2005		03/30/2005		03/30/2005	
Analyte	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	ND	6	2 J	7	20000	890	2 J	6
1,3-Dichlorobenzene	ND	6	ND	7	290 J	890	ND	6
Chlorobenzene	2 BJ	6	25 B	7	8900	890	2 BJ	6
1,2,4-Trichlorobenzene	ND	6	ND	7	1900	890	ND	6
IS/SURROGATE(S)								
Chlorobenzene-D5	96	50-200	93	50-200	94	50-200	90	50-200
1,4-Difluorobenzene	94	50-200	90	50-200	95	50-200	88	50-200
1,4-Dichlorobenzene-D4	87	50-200	86	50-200	96	50-200	83	50-200
Toluene-D8	108	71-125	106	71-125	106	71-125	108	71-125
p-Bromofluorobenzene	99	68-124	99	68-124	108	68-124	100	68-124
1,2-Dichloroethane-D4	122	61-136	125	61-136	107	61-136	130	61-136

NA = Not Applicable ND = Not Detected

Client ID		BS-4A		SW-2A		SW-2B		SW-2C	
Job No / Lab ID		A05-2879 / A5287901		A05-2879 / A5287903		A05-2879 / A5287902		A05-2879 / A5287904	
Sample Date		03/30/2005		03/30/2005		03/30/2005		03/30/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	120 J	390	ND	420	2800	440	ND	520
Nitrobenzene	UG/KG	ND	390	ND	420	1300	440	ND	520
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	96	50-200	99	50-200	111	50-200	107	50-200
Naphthalene-D8	%	100	50-200	107	50-200	113	50-200	116	50-200
Acenaphthene-D10	%	94	50-200	105	50-200	109	50-200	111	50-200
Phenanthrene-D10	%	89	50-200	104	50-200	101	50-200	110	50-200
Chrysene-D12	%	91	50-200	102	50-200	245 *	50-200	113	50-200
Perylene-D12	%	100	50-200	145	50-200	190	50-200	161	50-200
Nitrobenzene-D5	%	70	30-127	77	30-127	80	30-127	79	30-127
2-Fluorobiphenyl	%	80	36-138	81	36-138	77	36-138	83	36-138
p-Terphenyl-d14	%	80	41-167	84	41-167	5 *	41-167	82	41-167
Phenol-D5	%	59	34-120	70	34-120	69	34-120	70	34-120
2-Fluorophenol	%	55	26-120	63	26-120	66	26-120	63	26-120
2,4,6-Tribromophenol	%	83	42-140	94	42-140	81	42-140	92	42-140

NA = Not Applicable ND = Not Detected

Client ID		BS-4A		SW-2A		SW-2B		SW-2C	
Job No	Lab ID	A05-2879	A5287901	A05-2879	A5287903	A05-2879	A5287902	A05-2879	A5287904
Sample Date		03/30/2005		03/30/2005		03/30/2005		03/30/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	8.5	1.0	15.6	1.2	304	1.2	158	1.8

NA = Not Applicable ND = Not Detected

Client ID		METHANOL BLK 033105		VBLK28		VBLK48		VBLK49	
Job No	Lab ID	A05-2879	A5287905	A05-2879	A5B0444601	A05-2879	A5B0443710	A05-2879	A5B0443708
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	610	ND	5	ND	620	ND	620
1,3-Dichlorobenzene	UG/KG	ND	610	ND	5	ND	620	ND	620
Chlorobenzene	UG/KG	ND	610	2 J	5	ND	620	ND	620
1,2,4-Trichlorobenzene	UG/KG	ND	610	ND	5	ND	620	ND	620
IS/SURROGATE(S)									
Chlorobenzene-D5	%	84	50-200	93	50-200	94	50-200	97	50-200
1,4-Difluorobenzene	%	85	50-200	90	50-200	95	50-200	97	50-200
1,4-Dichlorobenzene-D4	%	87	50-200	85	50-200	95	50-200	94	50-200
Toluene-D8	%	110	71-125	108	71-125	104	71-125	114	71-125
p-Bromofluorobenzene	%	112	68-124	100	68-124	106	68-124	114	68-124
1,2-Dichloroethane-D4	%	112	61-136	119	61-136	108	61-136	117	61-136

NA = Not Applicable ND = Not Detected

Client ID	BS-4A		BS-4A		MSB48		MSB49	
Job No / Lab ID	A05-2879	A5287901MS	A05-2879	A5287901SD	A05-2879	A5B0443709	A05-2879	A5B0443707
Sample Date	03/30/2005		03/30/2005					

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	5800	620	6300	620
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	5700	620	6100	620
Chlorobenzene	UG/KG	35 B	6	34 B	6	6200	620	6700	620
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	5800	620	5900	620
IS/SURROGATE(S)									
Chlorobenzene-D5	%	93	50-200	93	50-200	93	50-200	96	50-200
1,4-Difluorobenzene	%	89	50-200	88	50-200	98	50-200	98	50-200
1,4-Dichlorobenzene-D4	%	86	50-200	84	50-200	97	50-200	99	50-200
Toluene-D8	%	103	71-125	104	71-125	114	71-125	119	71-125
p-Bromofluorobenzene	%	99	68-124	99	68-124	117	68-124	121	68-124
1,2-Dichloroethane-D4	%	127	61-136	128	61-136	111	61-136	116	61-136

Client ID	Matrix Spike Blank							
Job No / Lab ID	A05-2879	A5B0444602						
Sample Date								

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	1 J	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	49 B	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	1 J	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	100	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	98	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	93	50-200	NA		NA		NA	
Toluene-D8	%	109	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	103	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	116	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5287901 A5287901MS A5287901SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
LEAD ANALYSIS												
TOTAL LEAD	MG/KG	8.50	8.41	8.90	25.98	22.35	-0.*	2 *	1	270 *	20.0	80-120
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN												
Chlorobenzene	UG/KG	1.7	35.1	34.5	59.0	59.9	56 *	55 *	56	2	25.0	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		SBLK							
Job No	Lab ID	A05-2879	A5B0430702						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	104	50-200	NA		NA		NA	
Naphthalene-D8	%	111	50-200	NA		NA		NA	
Acenaphthene-D10	%	106	50-200	NA		NA		NA	
Phenanthrene-D10	%	107	50-200	NA		NA		NA	
Chrysene-D12	%	111	50-200	NA		NA		NA	
Perylene-D12	%	116	50-200	NA		NA		NA	
Nitrobenzene-D5	%	74	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	81	36-138	NA		NA		NA	
p-Terphenyl-d14	%	86	41-167	NA		NA		NA	
Phenol-D5	%	66	34-120	NA		NA		NA	
2-Fluorophenol	%	63	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	88	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-2879	A5B0430701						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	NA		NA		NA	
Nitrobenzene	UG/KG	ND	320	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	99	50-200	NA		NA		NA	
Naphthalene-D8	%	105	50-200	NA		NA		NA	
Acenaphthene-D10	%	102	50-200	NA		NA		NA	
Phenanthrene-D10	%	97	50-200	NA		NA		NA	
Chrysene-D12	%	101	50-200	NA		NA		NA	
Perylene-D12	%	108	50-200	NA		NA		NA	
Nitrobenzene-D5	%	81	30-127	NA		NA		NA	
2-Fluorobiphenyl	%	85	36-138	NA		NA		NA	
p-Terphenyl-d14	%	90	41-167	NA		NA		NA	
Phenol-D5	%	71	34-120	NA		NA		NA	
2-Fluorophenol	%	65	26-120	NA		NA		NA	
2,4,6-Tribromophenol	%	98	42-140	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-2879 A5B0429802							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-4A		BS-4A		LCS CLP Soils			
Job No	Lab ID	A05-2879	A5287901MS	A05-2879	A5287901SD	A05-2879	A5B0429801		
Sample Date		03/30/2005		03/30/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	8.4	1.3	8.9	1.1	153	1.0	NA	

NA = Not Applicable ND = Not Detected

SAMPLE DATE 03/30/2005

Client Sample ID: BS-4A BS-4A BS-4A
Lab Sample ID: A5287901 A5287901MS A5287901SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN												
Chlorobenzene	UG/KG	1.7	35.1	34.5	59.0	59.9	56 *	55 *	56	2	25.0	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK28 Matrix Spike Blank
Lab Sample ID: A5B0444601 A5B0444602

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	49.3	50.0	95	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK48 MSB48
Lab Sample ID: A5B0443710 A5B0443709

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	6183	6250	99	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK49 MSB49
Lab Sample ID: A5B0443708 A5B0443707

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	6737	6250	108	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 03/30/2005

Client Sample ID: BS-4A BS-4A BS-4A
Lab Sample ID: A5287901 A5287901MS A5287901SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	8.50	8.41	8.90	25.98	22.35	-0.*	2 *	1	270 *	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0429802 A5B0429801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	152.9	158.0	97	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	BS-4A A05-2879 A5287901	SW-2A A05-2879 A5287903	SW-2B A05-2879 A5287902	SW-2C A05-2879 A5287904	
Sample Date	03/30/2005 11:30	03/30/2005 10:05	03/30/2005 10:00	03/30/2005 10:10	
Received Date	03/30/2005 17:20	03/30/2005 17:20	03/30/2005 17:20	03/30/2005 17:20	
Extraction Date					
Analysis Date	03/31/2005 23:26	03/31/2005 23:59	03/31/2005 23:58	04/01/2005 00:32	
Extraction HT Met?	-	-	-	-	
Analytical HT Met?	YES	YES	YES	YES	
Sample Matrix	SOIL LOW	SOIL LOW	SOIL MED	SOIL LOW	
Dilution Factor	1.0	1.0	1.0	1.0	
Sample wt/vol	5.15 GRAMS	5.13 GRAMS	4.01 GRAMS	5.02 GRAMS	
% Dry	83.24	68.48	70.28	78.44	

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	BS-4A A05-2879 A5287901MS	BS-4A A05-2879 A5287901SD	MSB48 A05-2879 A5B0443709	MSB49 A05-2879 A5B0443707	Matrix Spike Blank A05-2879 A5B0444602
Sample Date	03/30/2005 11:30	03/30/2005 11:30			
Received Date	03/30/2005 17:20	03/30/2005 17:20			
Extraction Date					
Analysis Date	04/01/2005 01:05	04/01/2005 01:38	03/31/2005 19:07	03/31/2005 19:24	03/31/2005 22:19
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	-	-	-
Sample Matrix	SOIL LOW	SOIL LOW	SOIL MED	SOIL MED	SOIL LOW
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	5.09 GRAMS	5.01 GRAMS	4.0 GRAMS	4.0 GRAMS	5.0 GRAMS
% Dry	83.24	83.24	100.00	100.00	100.00

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	METHANOL BLK 033105 A05-2879 A5287905	VBLK28 A05-2879 A5B0444601	VBLK48 A05-2879 A5B0443710	VBLK49 A05-2879 A5B0443708	
Sample Date					
Received Date					
Extraction Date					
Analysis Date	03/31/2005 21:54	03/31/2005 22:53	03/31/2005 19:42	03/31/2005 20:00	
Extraction HT Met?	-	-	-	-	
Analytical HT Met?	-	-	-	-	
Sample Matrix	SOIL MED	SOIL LOW	SOIL MED	SOIL MED	
Dilution Factor	1.0	1.0	1.0	1.0	
Sample wt/vol	4.07 GRAMS	5.0 GRAMS	4.0 GRAMS	4.0 GRAMS	
% Dry	100.00	100.00	100.00	100.00	

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	BS-4A A05-2879 A5287901	SW-2A A05-2879 A5287903	SW-2B A05-2879 A5287902	SW-2C A05-2879 A5287904	
Sample Date	03/30/2005 11:30	03/30/2005 10:05	03/30/2005 10:00	03/30/2005 10:10	
Received Date	03/30/2005 17:20	03/30/2005 17:20	03/30/2005 17:20	03/30/2005 17:20	
Extraction Date	03/31/2005 07:00	03/31/2005 07:00	03/31/2005 07:00	03/31/2005 07:00	
Analysis Date	03/31/2005 16:31	03/31/2005 17:22	03/31/2005 16:56	03/31/2005 17:47	
Extraction HT Met?	YES	YES	YES	YES	
Analytical HT Met?	YES	YES	YES	YES	
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW	SOIL LOW	
Dilution Factor	1.0	1.0	1.0	1.0	
Sample wt/vol	30.24 GRAMS	30.26 GRAMS	30.42 GRAMS	30.53 GRAMS	
% Dry	83.31	77.15	73.96	62.23	

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2879 A5B0430701				
Sample Date					
Received Date					
Extraction Date	03/31/2005 07:00				
Analysis Date	03/31/2005 15:40				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.51 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SBLK A05-2879 A5B0430702				
Sample Date					
Received Date					
Extraction Date	03/31/2005 07:00				
Analysis Date	03/31/2005 16:06				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.14 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5287901	BS-4A	MG/KG	Lead - Total	6010	1.00	03/30/2005 11:30	03/30 17:20	NA	NA	04/01 11:49	Yes	SOIL
A5287903	SW-2A	MG/KG	Lead - Total	6010	1.00	03/30/2005 10:05	03/30 17:20	NA	NA	04/01 12:11	Yes	SOIL
A5287902	SW-2B	MG/KG	Lead - Total	6010	1.00	03/30/2005 10:00	03/30 17:20	NA	NA	04/01 12:06	Yes	SOIL
A5287904	SW-2C	MG/KG	Lead - Total	6010	1.00	03/30/2005 10:10	03/30 17:20	NA	NA	04/01 12:15	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5287901MS	BS-4A	MG/KG	Lead - Total	6010	1.00	03/30/2005 11:30	03/30 17:20	NA	NA	04/01 11:58	Yes	SOIL
A5287901SD	BS-4A	MG/KG	Lead - Total	6010	1.00	03/30/2005 11:30	03/30 17:20	NA	NA	04/01 12:02	Yes	SOIL
A5B0429802	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 17:20	NA	NA	04/01 11:40	Yes	SOIL
A5B0429801	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 17:20	NA	NA	04/01 11:44	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Honeywell Rf/o Parsons	Project Manager: MARK RAYBUCK	Date: 3/30/05	Chain of Custody Number: 190799
Address: 160 Lawrence Bell Dr.	Telephone Number (Area Code)/Fax Number: 716 432 7685	Lab Number:	Page ____ of ____
City: Williamsville / State: NY / Zip Code: 14221	Site Contact: J Powers	Lab Contact: B Fischer	
Project Name and Location (State): TIFT: Hopkins	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: HOLD COCS	LEAD	Special Instructions/ Conditions of Receipt
BS-4a BS+4/4	3/30/05	1130				✓	✓						✓	✓	
SW-2b 4/4 BS+		1000				✓	✓						✓	✓	
SW-2a 4/4 BS+		1005				✓	✓						✓	✓	
SW-2c		1010				✓	✓						✓	✓	

> Switched Per J. Powers 4/4/05

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify):

1. Relinquished By	Date: 3/30	Time: 1720	1. Received By	Date: 03/30/05	Time: 1720
2. Relinquished By	Date:	Time:	2. Received By	Date:	Time:
3. Relinquished By	Date:	Time:	3. Received By	Date:	Time:

Comments: 14.8°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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ANALYTICAL REPORT

Job#: A05-2941

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

04/07/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5294103	BS-5A	SOIL	03/31/2005	10:00	03/31/2005	17:30
A5294101	SW-8A	SOIL	03/31/2005	11:15	03/31/2005	17:30
A5294102	SW-8B	SOIL	03/31/2005	12:05	03/31/2005	17:30

METHODS SUMMARY

Job#: A05-2941

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-2941

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-2941
Sample Cooler(s) were received at the following temperature(s); 19.4 °C
All samples were received at a temperature of >10°C. As the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

Sample SW-8B DL was analyzed using medium level techniques due to high concentrations of target analytes.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		BS-5A		SW-8A		SW-8B		SW-8B DL	
Job No	Lab ID	A05-2941	A5294103	A05-2941	A5294101	A05-2941	A5294102	A05-2941	A5294102DL
Sample Date		03/31/2005		03/31/2005		03/31/2005		03/31/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	ND	6	1 J	6	ND	720
1,3-Dichlorobenzene	UG/KG	ND	5	ND	6	1 J	6	ND	720
Chlorobenzene	UG/KG	35	5	42	6	240 E	6	2300 D	720
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	6	ND	6	ND	720
IS/SURROGATE(S)									
Chlorobenzene-D5	%	72	50-200	76	50-200	74	50-200	87	50-200
1,4-Difluorobenzene	%	65	50-200	68	50-200	66	50-200	88	50-200
1,4-Dichlorobenzene-D4	%	63	50-200	69	50-200	68	50-200	90	50-200
Toluene-D8	%	100	71-125	98	71-125	96	71-125	103	71-125
p-Bromofluorobenzene	%	97	68-124	95	68-124	97	68-124	110	68-124
1,2-Dichloroethane-D4	%	128	61-136	124	61-136	126	61-136	104	61-136

NA = Not Applicable ND = Not Detected

Client ID		BS-5A		SW-8A		SW-8B			
Job No	Lab ID	A05-2941	A5294103	A05-2941	A5294101	A05-2941	A5294102		
Sample Date		03/31/2005		03/31/2005		03/31/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	310 J	400	ND	390	99 J	390	NA	
Nitrobenzene	UG/KG	ND	400	ND	390	ND	390	NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	114	50-200	112	50-200	113	50-200	NA	
Naphthalene-D8	%	120	50-200	119	50-200	116	50-200	NA	
Acenaphthene-D10	%	122	50-200	120	50-200	118	50-200	NA	
Phenanthrene-D10	%	126	50-200	124	50-200	122	50-200	NA	
Chrysene-D12	%	120	50-200	119	50-200	117	50-200	NA	
Perylene-D12	%	123	50-200	130	50-200	123	50-200	NA	
Nitrobenzene-D5	%	76	41-120	66	41-120	65	41-120	NA	
2-Fluorobiphenyl	%	83	50-120	78	50-120	73	50-120	NA	
p-Terphenyl-d14	%	81	53-137	77	53-137	79	53-137	NA	
Phenol-D5	%	80	41-120	71	41-120	64	41-120	NA	
2-Fluorophenol	%	73	33-120	59	33-120	57	33-120	NA	
2,4,6-Tribromophenol	%	88	53-132	86	53-132	85	53-132	NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-5A		SW-8A		SW-8B			
Job No	Lab ID	A05-2941	A5294103	A05-2941	A5294101	A05-2941	A5294102		
Sample Date		03/31/2005		03/31/2005		03/31/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	7.4	1.3	30.0	1.2	11.7	1.0	NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5290101 A5290101MS A5290101SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
STANTEC - 6010 METALS - S												
STANTEC - TOTAL ARSENIC 6010 - S	MG/KG	8.53	32.69	35.17	24.13	26.19	100	102	101	2	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		METHANOL BLK 040405		VBLK35		VBLK58			
Job No	Lab ID	A05-2941	A5294104	A05-2941	A5B0473402	A05-2941	A5B0469506		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	600	ND	5	ND	620	NA	
1,3-Dichlorobenzene	UG/KG	ND	600	ND	5	ND	620	NA	
Chlorobenzene	UG/KG	ND	600	ND	5	ND	620	NA	
1,2,4-Trichlorobenzene	UG/KG	ND	600	ND	5	ND	620	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	82	50-200	92	50-200	89	50-200	NA	
1,4-Difluorobenzene	%	82	50-200	91	50-200	89	50-200	NA	
1,4-Dichlorobenzene-D4	%	84	50-200	84	50-200	90	50-200	NA	
Toluene-D8	%	108	71-125	104	71-125	107	71-125	NA	
p-Bromofluorobenzene	%	114	68-124	100	68-124	112	68-124	NA	
1,2-Dichloroethane-D4	%	111	61-136	100	61-136	111	61-136	NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB35		MSB58					
Job No	Lab ID	A05-2941	A5B0473401	A05-2941	A5B0469505				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	50	5	6200	620	NA		NA	
1,3-Dichlorobenzene	UG/KG	49	5	6000	620	NA		NA	
Chlorobenzene	UG/KG	51	5	6400	620	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	49	5	6200	620	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	99	50-200	89	50-200	NA		NA	
1,4-Difluorobenzene	%	97	50-200	89	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	98	50-200	90	50-200	NA		NA	
Toluene-D8	%	103	71-125	110	71-125	NA		NA	
p-Bromofluorobenzene	%	102	68-124	116	68-124	NA		NA	
1,2-Dichloroethane-D4	%	93	61-136	110	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-2941	A5B0438402						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	320	NA		NA		NA	
Nitrobenzene	UG/KG	ND	320	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	115	50-200	NA		NA		NA	
Naphthalene-D8	%	119	50-200	NA		NA		NA	
Acenaphthene-D10	%	117	50-200	NA		NA		NA	
Phenanthrene-D10	%	124	50-200	NA		NA		NA	
Chrysene-D12	%	116	50-200	NA		NA		NA	
Perylene-D12	%	120	50-200	NA		NA		NA	
Nitrobenzene-D5	%	65	41-120	NA		NA		NA	
2-Fluorobiphenyl	%	75	50-120	NA		NA		NA	
p-Terphenyl-d14	%	81	53-137	NA		NA		NA	
Phenol-D5	%	64	41-120	NA		NA		NA	
2-Fluorophenol	%	59	33-120	NA		NA		NA	
2,4,6-Tribromophenol	%	78	53-132	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-2941	A5B0438401						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	105	50-200	NA		NA		NA	
Naphthalene-D8	%	109	50-200	NA		NA		NA	
Acenaphthene-D10	%	109	50-200	NA		NA		NA	
Phenanthrene-D10	%	106	50-200	NA		NA		NA	
Chrysene-D12	%	104	50-200	NA		NA		NA	
Perylene-D12	%	110	50-200	NA		NA		NA	
Nitrobenzene-D5	%	76	41-120	NA		NA		NA	
2-Fluorobiphenyl	%	86	50-120	NA		NA		NA	
p-Terphenyl-d14	%	90	53-137	NA		NA		NA	
Phenol-D5	%	76	41-120	NA		NA		NA	
2-Fluorophenol	%	69	33-120	NA		NA		NA	
2,4,6-Tribromophenol	%	99	53-132	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-2941	A5B0437802						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS CLP Soils							
Job No	Lab ID	A05-2941	A5B0437801						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	160	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK35 MSB35
Lab Sample ID: A5B0473402 A5B0473401

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	51.1	50.0	102	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK58 MSB58
Lab Sample ID: A5B0469506 A5B0469505

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	6399	6250	102	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0437802 A5B0437801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	160.0	158.0	101	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	BS-5A A05-2941 A5294103	SW-8A A05-2941 A5294101	SW-8B A05-2941 A5294102	SW-8B DL A05-2941 A5294102DL	
Sample Date	03/31/2005 10:00	03/31/2005 11:15	03/31/2005 12:05	03/31/2005 12:05	
Received Date	03/31/2005 17:30	03/31/2005 17:30	03/31/2005 17:30	03/31/2005 17:30	
Extraction Date					
Analysis Date	04/06/2005 18:38	04/06/2005 17:36	04/06/2005 18:07	04/05/2005 13:54	
Extraction HT Met?	-	-	-	-	
Analytical HT Met?	YES	YES	YES	YES	
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW	SOIL MED	
Dilution Factor	1.0	1.0	1.0	1.0	
Sample wt/vol	5.22 GRAMS	5.11 GRAMS	5.1 GRAMS	4.17 GRAMS	
% Dry	88.56	82.72	83.22	83.22	

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	MSB35 A05-2941 A5B0473401	MSB58 A05-2941 A5B0469505			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	04/06/2005 09:22	04/05/2005 11:39			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL MED			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	4.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	METHANOL BLK 040405 A05-2941 A5294104	VBLK35 A05-2941 A5B0473402	VBLK58 A05-2941 A5B0469506		
Sample Date					
Received Date					
Extraction Date					
Analysis Date	04/05/2005 12:44	04/06/2005 10:24	04/05/2005 12:09		
Extraction HT Met?	-	-	-		
Analytical HT Met?	-	-	-		
Sample Matrix	SOIL MED	SOIL LOW	SOIL MED		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	4.14 GRAMS	5.0 GRAMS	4.0 GRAMS		
% Dry	100.00	100.00	100.00		

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	BS-5A A05-2941 A5294103	SW-8A A05-2941 A5294101	SW-8B A05-2941 A5294102		
Sample Date	03/31/2005 10:00	03/31/2005 11:15	03/31/2005 12:05		
Received Date	03/31/2005 17:30	03/31/2005 17:30	03/31/2005 17:30		
Extraction Date	04/01/2005 07:00	04/01/2005 07:00	04/01/2005 07:00		
Analysis Date	04/04/2005 10:51	04/04/2005 09:58	04/04/2005 10:25		
Extraction HT Met?	YES	YES	YES		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	30.16 GRAMS	30.4 GRAMS	30.68 GRAMS		
% Dry	81.41	83.09	82.46		

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-2941 A5B0438401				
Sample Date					
Received Date					
Extraction Date	04/01/2005 07:00				
Analysis Date	04/04/2005 09:06				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.33 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	SBLK A05-2941 A5B0438402				
Sample Date					
Received Date					
Extraction Date	04/01/2005 07:00				
Analysis Date	04/04/2005 09:32				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.97 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5294103	BS-5A	MG/KG	Lead - Total	6010	1.00	03/31/2005 10:00	03/31 17:30	NA	NA	04/02 03:06	Yes	SOIL
A5294101	SW-8A	MG/KG	Lead - Total	6010	1.00	03/31/2005 11:15	03/31 17:30	NA	NA	04/02 02:56	Yes	SOIL
A5294102	SW-8B	MG/KG	Lead - Total	6010	1.00	03/31/2005 12:05	03/31 17:30	NA	NA	04/02 03:01	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0437802	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 17:30	NA	NA	04/02 01:01	Yes	SOIL
A5B0437801	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 17:30	NA	NA	04/02 01:06	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Honeywell C/O PARSONS	Project Manager: M. Raybuck	Date: 3/31/05	Chain of Custody Number: 190798
Address: 180 Lawrence Bell Dr	Telephone Number (Area Code)/Fax Number: 716 432 7685	Lab Number:	Page 1 of 1
City: Williamsville / State: NY / Zip Code: 14221	Site Contact: S. Poulsen	Lab Contact: B. Fisher	
Project Name and Location (State): Toft & Hopkins	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: How Cocs	Lead	Special Instructions/ Conditions of Receipt
SW -8a	3/31	1115				X	X						X	X	
SW -8b	↓	1205				X	X						X	X	
BS -5a	↓	1000				X	X						X	X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [X] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify):

1. Relinquished By	Date: 3/31/05	Time: 1730	1. Received By	Date: 03/31/05	Time: 1730
2. Relinquished By	Date:	Time:	2. Received By	Date:	Time:
3. Relinquished By	Date:	Time:	3. Received By	Date:	Time:

Comments: 19.4°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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ANALYTICAL REPORT

Job#: A05-3195

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

04/22/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5319501	CON-WATER-2	WATER	04/06/2005	11:30	04/07/2005	08:10

METHODS SUMMARY

Job#: A05-3195

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
METHOD 624 - AQ - TIFFT & HOPKINS SELECT LIST VOA	CFR136 624
METHOD 8270 - 4-CHLOROANILINE/NAPHTHALENE	SW8463 8270
METHOD 608 - TIFFT & HOPKINS SELECT PESTICIDES	CFR136 608
Aluminum - Total	MCAWW 200.7
Antimony - Total	MCAWW 200.7
Arsenic - Total	MCAWW 200.7
Barium - Total	MCAWW 200.7
Cadmium - Total	MCAWW 200.7
Chromium - Total	MCAWW 200.7
Copper - Total	MCAWW 200.7
Lead - Total	MCAWW 200.7
Mercury - Total	MCAWW 245.1
Nickel - Total	MCAWW 200.7
Zinc - Total	MCAWW 200.7
Cyanide - Total	MCAWW 335.2

CFR136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office of Water.

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

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

NON-CONFORMANCE SUMMARY

Job#: A05-3195

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-3195
Sample Cooler(s) were received at the following temperature(s); 6.0 °C
There was no volume received for Total Cyanide analysis. Volume was poured off from unpreserved organic volume provided into (1) 4 ounce plastic and preserved with .5 mls NaOH Lot#4078 VWR.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

GC Extractable Data

For method 608, the recovery of surrogate Tetrachloro-m-xylene in sample CON-WATER-2 is biased high and is outside of established quality control limits due to the sample matrix. The recovery of surrogate Decachlorobiphenyl is within quality control criteria; no corrective action is required.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

****

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

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
CON-WATER-2	A5319501	624	2.00	003

Dilution Code Definition:

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		CON-WATER-2							
Job No	Lab ID	A05-3195	A5319501						
Sample Date		04/06/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/L	ND	2.2	NA		NA		NA	
Chlorobenzene	UG/L	61	1.8	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	30	1.7	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	1.9	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	3.8	1.5	NA		NA		NA	
Toluene	UG/L	ND	2.4	NA		NA		NA	
SURROGATE(S)									
Toluene-D8	%	108	86-110	NA		NA		NA	
p-Bromofluorobenzene	%	105	67-127	NA		NA		NA	
1,2-Dichloroethane-D4	%	109	79-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		CON-WATER-2							
Job No	Lab ID	A05-3195	A5319501						
Sample Date		04/06/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/L	21	1	NA		NA		NA	
Naphthalene	UG/L	ND	2	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	108	50-200	NA		NA		NA	
Naphthalene-D8	%	109	50-200	NA		NA		NA	
Acenaphthene-D10	%	110	50-200	NA		NA		NA	
Phenanthrene-D10	%	109	50-200	NA		NA		NA	
Chrysene-D12	%	112	50-200	NA		NA		NA	
Perylene-D12	%	115	50-200	NA		NA		NA	
Nitrobenzene-D5	%	67	52-120	NA		NA		NA	
2-Fluorobiphenyl	%	71	21-120	NA		NA		NA	
p-Terphenyl-d14	%	68	36-138	NA		NA		NA	
Phenol-D5	%	27	13-120	NA		NA		NA	
2-Fluorophenol	%	37	21-120	NA		NA		NA	
2,4,6-Tribromophenol	%	89	62-133	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		CON-WATER-2							
Job No	Lab ID	A05-3195	A5319501						
Sample Date		04/06/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Endosulfan I	UG/L	ND	0.0050	NA		NA		NA	
Endosulfan II	UG/L	ND	0.0050	NA		NA		NA	
Heptachlor epoxide	UG/L	ND	0.0050	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	334 *	22-119	NA		NA		NA	
Decachlorobiphenyl	%	114	30-135	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		CON-WATER-2							
Job No	Lab ID	A05-3195	A5319501						
Sample Date		04/06/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aluminum - Total	MG/L	0.25	0.20	NA		NA		NA	
Antimony - Total	MG/L	ND	0.020	NA		NA		NA	
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Barium - Total	MG/L	0.053	0.0020	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0040	NA		NA		NA	
Copper - Total	MG/L	ND	0.010	NA		NA		NA	
Lead - Total	MG/L	0.017	0.0050	NA		NA		NA	
Mercury - Total	MG/L	ND	0.00020	NA		NA		NA	
Nickel - Total	MG/L	ND	0.010	NA		NA		NA	
Zinc - Total	MG/L	0.087	0.020	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		CON-WATER-2							
Job No	Lab ID	A05-3195	A5319501						
Sample Date		04/06/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	MG/L	ND	0.010	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5310301 A5310301MS A5310301SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
METHOD 8270 - APPENDIX II - SEMI-VOLATIL												
Phenol	UG/L	0	24.8	26.4	91.7	91.7	27	29	28	7	39.0	16-120
2-Chlorophenol	UG/L	0	68.1	68.5	91.7	91.7	74	75	75	1	33.0	42-120
1,4-Dichlorobenzene	UG/L	0	46.6	46.7	91.7	91.7	51	51	51	0	35.0	28-120
N-Nitroso-Di-n-propylamine	UG/L	0	84.1	84.2	91.7	91.7	92	92	92	0	38.0	53-120
1,2,4-Trichlorobenzene	UG/L	0	52.0	51.9	91.7	91.7	57	56	57	2	35.0	36-120
4-Chloro-3-methylphenol	UG/L	0	81.3	82.1	91.7	91.7	89	90	90	1	25.0	54-131
Acenaphthene	UG/L	0	74.0	75.2	91.7	91.7	81	82	82	1	23.0	55-120
4-Nitrophenol	UG/L	0	29.8	30.6	91.7	91.7	32	33	33	3	30.0	11-120
2,4-Dinitrotoluene	UG/L	0	83.5	83.8	91.7	91.7	91	91	91	0	20.0	53-125
Pentachlorophenol	UG/L	0	85.4	84.8	91.7	91.7	93	92	93	1	27.0	33-143
Pyrene	UG/L	0	77.5	81.3	91.7	91.7	84	89	87	6	25.0	50-151

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A5310202 A5310202MS A5310202SD

Analyte	Units of Measure	Concentration Sample	Matrix Spike	Spike Duplicate	Spike Amount MS	MSD	% Recovery MS	MSD	Avg	% RPD	QC LIMITS RPD	REC.
METHOD 608 - PRIORITY POLLUTANT PESTICID												
gamma-BHC (Lindane)	UG/L	0	0.125	0.132	0.128	0.128	98	103	101	5	40.0	50-120
Endrin	UG/L	0	0	0	0.128	0.128	0 *	0 *	0	0	40.0	53-127
Heptachlor	UG/L	0	0.151	0.158	0.128	0.128	118	124 *	121	5	40.0	17-120
Heptachlor epoxide	UG/L	0	0.122	0.126	0.128	0.128	96	98	97	2	40.0	53-120
Methoxychlor	UG/L	0	0.00282	0.00154	0.128	0.128	2 *	1 *	2	67 *	40.0	50-127

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A5317701 A5317701MS A5317701SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
IRON ANALYSIS												
TOTAL IRON	MG/L	0.0713	9.70	9.98	10.0	10.0	96	99	98	3	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		vblk69							
Job No	Lab ID	A05-3195	A5B0520903						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/L	ND	1.1	NA		NA		NA	
Chlorobenzene	UG/L	ND	0.90	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	0.85	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	0.96	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	0.76	NA		NA		NA	
Toluene	UG/L	ND	1.2	NA		NA		NA	
SURROGATE(S)									
Toluene-D8	%	105	86-110	NA		NA		NA	
p-Bromofluorobenzene	%	105	67-127	NA		NA		NA	
1,2-Dichloroethane-D4	%	102	79-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		msb69							
Job No	Lab ID	A05-3195	A5B0520901						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/L	19	1.1	NA		NA		NA	
Chlorobenzene	UG/L	19	0.90	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	19	0.85	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	19	0.96	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	19	0.76	NA		NA		NA	
Toluene	UG/L	19	1.2	NA		NA		NA	
SURROGATE(S)									
Toluene-D8	%	104	86-110	NA		NA		NA	
p-Bromofluorobenzene	%	103	67-127	NA		NA		NA	
1,2-Dichloroethane-D4	%	101	79-146	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-3195	A5B0480302						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/L	ND	1	NA		NA		NA	
Naphthalene	UG/L	ND	2	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	93	50-200	NA		NA		NA	
Naphthalene-D8	%	95	50-200	NA		NA		NA	
Acenaphthene-D10	%	94	50-200	NA		NA		NA	
Phenanthrene-D10	%	95	50-200	NA		NA		NA	
Chrysene-D12	%	95	50-200	NA		NA		NA	
Perylene-D12	%	98	50-200	NA		NA		NA	
Nitrobenzene-D5	%	84	52-120	NA		NA		NA	
2-Fluorobiphenyl	%	84	21-120	NA		NA		NA	
p-Terphenyl-d14	%	84	36-138	NA		NA		NA	
Phenol-D5	%	30	13-120	NA		NA		NA	
2-Fluorophenol	%	43	21-120	NA		NA		NA	
2,4,6-Tribromophenol	%	93	62-133	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-3195	A5B0480301						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/L	ND	1	NA		NA		NA	
Naphthalene	UG/L	ND	2	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	93	50-200	NA		NA		NA	
Naphthalene-D8	%	96	50-200	NA		NA		NA	
Acenaphthene-D10	%	97	50-200	NA		NA		NA	
Phenanthrene-D10	%	96	50-200	NA		NA		NA	
Chrysene-D12	%	98	50-200	NA		NA		NA	
Perylene-D12	%	99	50-200	NA		NA		NA	
Nitrobenzene-D5	%	81	52-120	NA		NA		NA	
2-Fluorobiphenyl	%	77	21-120	NA		NA		NA	
p-Terphenyl-d14	%	82	36-138	NA		NA		NA	
Phenol-D5	%	30	13-120	NA		NA		NA	
2-Fluorophenol	%	43	21-120	NA		NA		NA	
2,4,6-Tribromophenol	%	92	62-133	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-3195	A5B0480402						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Endosulfan I	UG/L	ND	0.0050	NA		NA		NA	
Endosulfan II	UG/L	ND	0.0050	NA		NA		NA	
Heptachlor epoxide	UG/L	ND	0.0050	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	72	22-119	NA		NA		NA	
Decachlorobiphenyl	%	46	30-135	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-3195	A5B0480401						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Endosulfan I	UG/L	0.042	0.0050	NA		NA		NA	
Endosulfan II	UG/L	0.050	0.0050	NA		NA		NA	
Heptachlor epoxide	UG/L	0.049	0.0050	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	80	22-119	NA		NA		NA	
Decachlorobiphenyl	%	56	30-135	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-3195 A5B0473702		Method Blank A05-3195 A5B0474302					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	ND	0.010	NA		NA		NA	
Cadmium - Total	MG/L	ND	0.0010	NA		NA		NA	
Lead - Total	MG/L	ND	0.0050	NA		NA		NA	
Nickel - Total	MG/L	ND	0.010	NA		NA		NA	
Zinc - Total	MG/L	ND	0.020	NA		NA		NA	
Antimony - Total	MG/L	ND	0.020	NA		NA		NA	
Aluminum - Total	MG/L	ND	0.20	NA		NA		NA	
Barium - Total	MG/L	ND	0.0020	NA		NA		NA	
Chromium - Total	MG/L	ND	0.0040	NA		NA		NA	
Copper - Total	MG/L	ND	0.010	NA		NA		NA	
Mercury - Total	MG/L	NA		ND	0.00020	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS		LFB					
Job No	Lab ID	A05-3195	A5B0474301	A05-3195	A5B0473701				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Mercury - Total	MG/L	0.0034	0.00020	NA		NA		NA	
Arsenic - Total	MG/L	NA		0.22	0.010	NA		NA	
Barium - Total	MG/L	NA		0.19	0.0020	NA		NA	
Cadmium - Total	MG/L	NA		0.20	0.0010	NA		NA	
Chromium - Total	MG/L	NA		0.20	0.0040	NA		NA	
Zinc - Total	MG/L	NA		0.20	0.020	NA		NA	
Aluminum - Total	MG/L	NA		10	0.20	NA		NA	
Antimony - Total	MG/L	NA		0.19	0.020	NA		NA	
Copper - Total	MG/L	NA		0.19	0.010	NA		NA	
Lead - Total	MG/L	NA		0.20	0.0050	NA		NA	
Nickel - Total	MG/L	NA		0.19	0.010	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-3195	A5B0476602						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	MG/L	ND	0.010	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LCS							
Job No	Lab ID	A05-3195	A5B0476601						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Cyanide - Total	MG/L	0.41	0.010	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: vblk69 msb69
Lab Sample ID: A5B0520903 A5B0520901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 624 - AQ - TIFFT & HOPKINS SELECT					
Benzene	UG/L	19.3	20.0	97	80-122
Chlorobenzene	UG/L	18.7	20.0	94	80-118
1,2-Dichlorobenzene	UG/L	19.2	20.0	96	82-119
1,3-Dichlorobenzene	UG/L	18.8	20.0	94	81-117
1,4-Dichlorobenzene	UG/L	18.9	20.0	95	81-118
Toluene	UG/L	19.4	20.0	97	68-130

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: SBLK Matrix Spike Blank
Lab Sample ID: A5B0480402 A5B0480401

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 608 - TIFFT & HOPKINS SELECT PEST					
Endosulfan I	UG/L	0.0424	0.0500	85	44-124
Endosulfan II	UG/L	0.0501	0.0500	100	40-124
Heptachlor epoxide	UG/L	0.0491	0.0500	98	53-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LFB
Lab Sample ID: A5B0473702 A5B0473701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
HONEYWELL - 200.7 METALS - W					
HONEYWELL - 200.7 TOTAL ARSENIC - W	MG/L	0.215	0.200	108	85-115
HONEYWELL - 200.7 TOTAL BARIUM - W	MG/L	0.189	0.200	95	85-115
HONEYWELL - 200.7 TOTAL CADMIUM - W	MG/L	0.197	0.200	99	85-115
HONEYWELL - 200.7 TOTAL CHROMIUM - W	MG/L	0.195	0.200	97	85-115
HONEYWELL - 200.7 TOTAL COPPER - W	MG/L	0.193	0.200	96	85-115
HONEYWELL - 200.7 TOTAL LEAD - W	MG/L	0.196	0.200	98	85-115
HONEYWELL - 200.7 TOTAL NICKEL - W	MG/L	0.194	0.200	97	85-115
HONEYWELL - 200.7 TOTAL ZINC - W	MG/L	0.203	0.200	101	85-115
TOTAL ALUMINUM	MG/L	9.96	10.0	100	85-115
TOTAL ANTIMONY	MG/L	0.192	0.200	96	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A5B0474302 A5B0474301

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
HONEYWELL - 200.7 METALS - W HONEYWELL - 245.1 TOTAL MERCURY - W	MG/L	0.00343	0.00333	103	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS
Lab Sample ID: A5B0476602 A5B0476601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 335.2 - TOTAL CYANIDE	MG/L	0.414	0.400	104	90-110

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 624 - AQ - TIFFT & HOPKINS SELECT LIST VOA

Client Sample ID Job No & Lab Sample ID	CON-WATER-2 A05-3195 A5319501				
Sample Date	04/06/2005 11:30				
Received Date	04/07/2005 08:10				
Extraction Date					
Analysis Date	04/13/2005 17:53				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	2.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

METHOD 624 - AQ - TIFFT & HOPKINS SELECT LIST VOA

Client Sample ID	msb69				
Job No & Lab Sample ID	A05-3195 A5B0520901				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	04/13/2005 16:27				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

METHOD 624 - AQ - TIFFT & HOPKINS SELECT LIST VOA

Client Sample ID Job No & Lab Sample ID	vblk69 A05-3195 A5B0520903				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	04/13/2005 17:18				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

METHOD 8270 - 4-CHLOROANILINE/NAPHTHALENE

Client Sample ID Job No & Lab Sample ID	CON-WATER-2 A05-3195 A5319501				
Sample Date	04/06/2005 11:30				
Received Date	04/07/2005 08:10				
Extraction Date	04/08/2005 07:00				
Analysis Date	04/08/2005 21:08				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

METHOD 8270 - 4-CHLOROANILINE/NAPHTHALENE

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-3195 A5B0480301				
Sample Date					
Received Date					
Extraction Date	04/08/2005 07:00				
Analysis Date	04/08/2005 15:53				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

METHOD 8270 - 4-CHLOROANILINE/NAPHTHALENE

Client Sample ID	SBLK				
Job No & Lab Sample ID	A05-3195 A5B0480302				
Sample Date					
Received Date					
Extraction Date	04/08/2005 07:00				
Analysis Date	04/08/2005 16:22				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

METHOD 608 - TIFFT & HOPKINS SELECT PESTICIDES

Client Sample ID Job No & Lab Sample ID	CON-WATER-2 A05-3195 A5319501				
Sample Date	04/06/2005 11:30				
Received Date	04/07/2005 08:10				
Extraction Date	04/08/2005 07:00				
Analysis Date	04/11/2005 20:44				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.99 LITERS				
% Dry					

NA = Not Applicable

METHOD 608 - TIFFT & HOPKINS SELECT PESTICIDES

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-3195 A5B0480401				
Sample Date					
Received Date					
Extraction Date	04/08/2005 07:00				
Analysis Date	04/11/2005 19:33				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

METHOD 608 - TIFFT & HOPKINS SELECT PESTICIDES

Client Sample ID Job No & Lab Sample ID	SBLK A05-3195 A5B0480402				
Sample Date					
Received Date					
Extraction Date	04/08/2005 07:00				
Analysis Date	04/11/2005 20:09				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5319501	CON-WATER-2	MG/L	Aluminum - Total	200.7	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 13:26	Yes	WATER
		MG/L	Antimony - Total	200.7	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 13:26	Yes	WATER
		MG/L	Arsenic - Total	200.7	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 13:26	Yes	WATER
		MG/L	Barium - Total	200.7	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 13:26	Yes	WATER
		MG/L	Cadmium - Total	200.7	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 13:26	Yes	WATER
		MG/L	Chromium - Total	200.7	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 13:26	Yes	WATER
		MG/L	Copper - Total	200.7	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 13:26	Yes	WATER
		MG/L	Lead - Total	200.7	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 13:26	Yes	WATER
		MG/L	Mercury - Total	245.1	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 00:08	Yes	WATER
		MG/L	Nickel - Total	200.7	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 13:26	Yes	WATER
		MG/L	Zinc - Total	200.7	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 13:26	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0473702	Method Blank	MG/L	Aluminum - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:29	Yes	WATER
		MG/L	Antimony - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:29	Yes	WATER
		MG/L	Arsenic - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:29	Yes	WATER
		MG/L	Barium - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:29	Yes	WATER
		MG/L	Cadmium - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:29	Yes	WATER
		MG/L	Chromium - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:29	Yes	WATER
		MG/L	Copper - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:29	Yes	WATER
		MG/L	Lead - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:29	Yes	WATER
		MG/L	Nickel - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:29	Yes	WATER
		MG/L	Zinc - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:29	Yes	WATER
A5B0474302	Method Blank	MG/L	Mercury - Total	245.1	1.00	-	- 08:10	NA	NA	04/08 00:41	Yes	WATER
A5B0474301	LCS	MG/L	Mercury - Total	245.1	1.00	-	- 08:10	NA	NA	04/08 00:40	Yes	WATER
A5B0473701	LFB	MG/L	Aluminum - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:34	Yes	WATER
		MG/L	Antimony - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:34	Yes	WATER
		MG/L	Arsenic - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:34	Yes	WATER
		MG/L	Barium - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:34	Yes	WATER
		MG/L	Cadmium - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:34	Yes	WATER
		MG/L	Chromium - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:34	Yes	WATER
		MG/L	Copper - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:34	Yes	WATER
		MG/L	Lead - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:34	Yes	WATER
		MG/L	Nickel - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:34	Yes	WATER
		MG/L	Zinc - Total	200.7	1.00	-	- 08:10	NA	NA	04/08 11:34	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5319501	CON-WATER-2	MG/L	Cyanide - Total	335.2	1.00	04/06/2005 11:30	04/07 08:10	NA	NA	04/08 11:45	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0476602	Method Blank	MG/L	Cyanide - Total	335.2	1.00	-	- 08:10	NA	NA	04/08 11:45	Yes	WATER
A5B0476601	LCS	MG/L	Cyanide - Total	335.2	1.00	-	- 08:10	NA	NA	04/08 11:45	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
HONEYWELL c/o PARSONS	M. Raybuck	4/6/05	190783
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
180 Lawrence Bell Dr.	(716) 432-7685		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Williamsville / NY / 14221	J Poulsen	B. Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
Tifft & Hopkins			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: VOCs	SVOCs	Pest	Metals	CN	Special Instructions/ Conditions of Receipt
~~EQ~~ CON-WATER-2	4/6/05	1130		X			X		X	X			✓	✓	✓	✓	✓	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.		4/6/05	0810		04/07/05	0810
2.						
3.						

Comments: 60°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

49/49

ANALYTICAL REPORT

Job#: A05-3792

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

08/24/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5379201	BS-6	SOIL	04/18/2005	13:30	04/19/2005	15:45
A5379202	SW-8C	SOIL	04/19/2005	09:00	04/19/2005	15:45

METHODS SUMMARY

Job#: A05-3792

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS	SW8463 8260
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-3792

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-3792
Sample Cooler(s) were received at the following temperature(s); 12.0 °C
Samples were received at a temperature of 12° C. These samples were analyzed as per instructions from the client.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

The recovery of sample BS-6 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Total Lead. Sample matrix is suspect. However, the LCS (A5B0556901) was acceptable.

****

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

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
SW-8C	A5379202	8270	5.00	004

Dilution Code Definition:

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Client ID	BS-6		SW-8C					
Job No Lab ID	A05-3792	A5379201	A05-3792	A5379202				
Sample Date	04/18/2005		04/19/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
Chlorobenzene	UG/KG	16	6	ND	6	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	6	ND	6	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	101	50-200	93	50-200	NA		NA	
1,4-Difluorobenzene	%	104	50-200	95	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	89	50-200	64	50-200	NA		NA	
Toluene-D8	%	89	71-125	92	71-125	NA		NA	
p-Bromofluorobenzene	%	83	68-124	78	68-124	NA		NA	
1,2-Dichloroethane-D4	%	82	61-136	86	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-6		SW-8C					
Job No	Lab ID	A05-3792	A5379201	A05-3792	A5379202				
Sample Date		04/18/2005		04/19/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	310 J	390	ND	1900	NA		NA	
Nitrobenzene	UG/KG	ND	390	ND	1900	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	98	50-200	102	50-200	NA		NA	
Naphthalene-D8	%	99	50-200	106	50-200	NA		NA	
Acenaphthene-D10	%	99	50-200	104	50-200	NA		NA	
Phenanthrene-D10	%	102	50-200	106	50-200	NA		NA	
Chrysene-D12	%	102	50-200	105	50-200	NA		NA	
Perylene-D12	%	99	50-200	116	50-200	NA		NA	
Nitrobenzene-D5	%	73	41-120	94	41-120	NA		NA	
2-Fluorobiphenyl	%	84	50-120	106	50-120	NA		NA	
p-Terphenyl-d14	%	88	53-137	100	53-137	NA		NA	
Phenol-D5	%	74	41-120	97	41-120	NA		NA	
2-Fluorophenol	%	63	33-120	83	33-120	NA		NA	
2,4,6-Tribromophenol	%	89	53-132	98	53-132	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-6		SW-8C					
Job No	Lab ID	A05-3792	A5379201	A05-3792	A5379202				
Sample Date		04/18/2005		04/19/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	9.1	1.1	218	1.1	NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5228701 A5228701MS A5228701SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
ENSR - SOIL-SW8463 8270 - STARS BASE NEU												
Acenaphthene	UG/KG	0	3415	3639	4450	4475	77	81	79	5	16.0	49-131
Pyrene	UG/KG	0	3782	3992	4450	4475	85	89	87	4	25.0	48-154

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Lab Sample ID: A5230701 A5230701MS A5230701SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
LEAD ANALYSIS												
TOTAL LEAD	MG/KG	21.67	42.24	34.69	25.69	25.20	80	52 *	66	42 *	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID Job No Lab ID Sample Date		VBLK75 A05-3792 A5B0566502		VBLK76 A05-3792 A5B0566504					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
Chlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	95	50-200	79	50-200	NA		NA	
1,4-Difluorobenzene	%	96	50-200	74	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	86	50-200	58	50-200	NA		NA	
Toluene-D8	%	86	71-125	88	71-125	NA		NA	
p-Bromofluorobenzene	%	84	68-124	78	68-124	NA		NA	
1,2-Dichloroethane-D4	%	81	61-136	85	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB75		MSB76					
Job No	Lab ID	A05-3792	A5B0566501	A05-3792	A5B0566503				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/KG	55	5	56	5	NA		NA	
1,3-Dichlorobenzene	UG/KG	55	5	55	5	NA		NA	
Chlorobenzene	UG/KG	56	5	56	5	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	57	5	64	5	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	96	50-200	89	50-200	NA		NA	
1,4-Difluorobenzene	%	95	50-200	87	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	95	50-200	89	50-200	NA		NA	
Toluene-D8	%	87	71-125	88	71-125	NA		NA	
p-Bromofluorobenzene	%	87	68-124	87	68-124	NA		NA	
1,2-Dichloroethane-D4	%	86	61-136	78	61-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-3792	A5B0554302						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	102	50-200	NA		NA		NA	
Naphthalene-D8	%	106	50-200	NA		NA		NA	
Acenaphthene-D10	%	105	50-200	NA		NA		NA	
Phenanthrene-D10	%	107	50-200	NA		NA		NA	
Chrysene-D12	%	106	50-200	NA		NA		NA	
Perylene-D12	%	107	50-200	NA		NA		NA	
Nitrobenzene-D5	%	70	41-120	NA		NA		NA	
2-Fluorobiphenyl	%	80	50-120	NA		NA		NA	
p-Terphenyl-d14	%	86	53-137	NA		NA		NA	
Phenol-D5	%	74	41-120	NA		NA		NA	
2-Fluorophenol	%	62	33-120	NA		NA		NA	
2,4,6-Tribromophenol	%	84	53-132	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		Method Blank A05-3792 A5B0556902							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		BS-6 A05-3792 A5379201MS 04/18/2005		BS-6 A05-3792 A5379201SD 04/18/2005		LCS CLP Soils A05-3792 A5B0556901			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	23.5	1.1	23.9	1.1	117	1.0	NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK75 MSB75
Lab Sample ID: A5B0566502 A5B0566501

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	56.2	50.0	112	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK76 MSB76
Lab Sample ID: A5B0566504 A5B0566503

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8260 - SELECT TIFFT & HOPKIN					
Chlorobenzene	UG/KG	55.8	50.0	112	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 04/18/2005

Client Sample ID: BS-6 BS-6 BS-6
Lab Sample ID: A5379201 A5379201MS A5379201SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	9.07	23.54	23.90	22.28	22.74	65 *	65 *	65	0	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0556902 A5B0556901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	117.0	119.0	98	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	BS-6 A05-3792 A5379201	SW-8C A05-3792 A5379202			
Sample Date	04/18/2005 13:30	04/19/2005 09:00			
Received Date	04/19/2005 15:45	04/19/2005 15:45			
Extraction Date					
Analysis Date	04/19/2005 23:58	04/20/2005 00:17			
Extraction HT Met?	-	-			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.11 GRAMS	5.02 GRAMS			
% Dry	83.26	87.20			

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	MSB75 A05-3792 A5B0566501	MSB76 A05-3792 A5B0566503			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	04/19/2005 22:29	04/19/2005 22:47			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL-SW8463 8260 - SELECT TIFFT & HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	VBLK75 A05-3792 A5B0566502	VBLK76 A05-3792 A5B0566504			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	04/19/2005 23:05	04/19/2005 23:23			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.0 GRAMS	5.0 GRAMS			
% Dry	100.00	100.00			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	BS-6 A05-3792 A5379201	SW-8C A05-3792 A5379202			
Sample Date	04/18/2005 13:30	04/19/2005 09:00			
Received Date	04/19/2005 15:45	04/19/2005 15:45			
Extraction Date	04/20/2005 07:00	04/20/2005 07:00			
Analysis Date	04/20/2005 12:38	04/20/2005 13:04			
Extraction HT Met?	YES	YES			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	5.0			
Sample wt/vol	30.12 GRAMS	30.27 GRAMS			
% Dry	83.26	87.20			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID	SBLK				
Job No & Lab Sample ID	A05-3792 A5B0554302				
Sample Date					
Received Date					
Extraction Date	04/20/2005 07:00				
Analysis Date	04/20/2005 12:12				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.23 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5379201	BS-6	MG/KG	Lead - Total	6010	1.00	04/18/2005 13:30	04/19 15:45	NA	NA	04/20 22:34	Yes	SOIL
A5379202	SW-8C	MG/KG	Lead - Total	6010	1.00	04/19/2005 09:00	04/19 15:45	NA	NA	04/20 23:02	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5379201MS	BS-6	MG/KG	Lead - Total	6010	1.00	04/18/2005 13:30	04/19 15:45	NA	NA	04/20 22:43	Yes	SOIL
A5379201SD	BS-6	MG/KG	Lead - Total	6010	1.00	04/18/2005 13:30	04/19 15:45	NA	NA	04/20 22:58	Yes	SOIL
A5B0556902	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 15:45	NA	NA	04/20 21:14	Yes	SOIL
A5B0556901	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 15:45	NA	NA	04/20 21:18	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody Record

SEVERN TRENT STL

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Honeywell C/O Parsons	Mark Raybuck		190784
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
180 Lawrence Bell Dr	716 432 7685		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Williamsville / NY / 14221	J. Poulsen	B. Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
Tift / Hopkins			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH		Analysis: HoNVOCs	HoNSVOCs	Pb										Special Instructions/ Conditions of Receipt
BS-6	4/18/05	1330				X	X						X	X	X											
SW-8C	4/19/05	0900				X	X						X	X	X											

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/19/05	1545	1. Received By STL BUFFALO	4/19/05	1545
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 12.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

31/31

ANALYTICAL REPORT

Job#: A05-3876

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

04/26/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5387601	BS-7	SOIL	04/20/2005	09:15	04/20/2005	17:50
A5387602	SW-2D	SOIL	04/20/2005	09:30	04/20/2005	17:50

METHODS SUMMARY

Job#: A05-3876

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
SOIL-SW8463 8021 - SELECT TIFFT&HOPKINS VOAS	SW8463 8021
SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-3876

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-3876
Sample Cooler(s) were received at the following temperature(s); 18.8 NOICE °C
Sample BS-7 and SW-2D were received at a temperature of >10°C. However, as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

Client ID		BS-7		SW-2D					
Job No	Lab ID	A05-3876	A5387601	A05-3876	A5387602				
Sample Date		04/20/2005		04/20/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chlorobenzene	UG/KG	ND	12	150	12	NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	60	92	58	NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	12	ND	12	NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	12	ND	12	NA		NA	
SURROGATE(S)									
a,a,a-Trifluorotoluene	%	106	76-127	105	76-127	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-7		SW-2D					
Job No	Lab ID	A05-3876	A5387601	A05-3876	A5387602				
Sample Date		04/20/2005		04/20/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	410	ND	380	NA		NA	
Nitrobenzene	UG/KG	ND	410	ND	380	NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	85	50-200	93	50-200	NA		NA	
Naphthalene-D8	%	87	50-200	94	50-200	NA		NA	
Acenaphthene-D10	%	84	50-200	92	50-200	NA		NA	
Phenanthrene-D10	%	87	50-200	95	50-200	NA		NA	
Chrysene-D12	%	88	50-200	97	50-200	NA		NA	
Perylene-D12	%	90	50-200	96	50-200	NA		NA	
Nitrobenzene-D5	%	71	41-120	69	41-120	NA		NA	
2-Fluorobiphenyl	%	84	50-120	81	50-120	NA		NA	
p-Terphenyl-d14	%	82	53-137	82	53-137	NA		NA	
Phenol-D5	%	75	41-120	71	41-120	NA		NA	
2-Fluorophenol	%	67	33-120	64	33-120	NA		NA	
2,4,6-Tribromophenol	%	85	53-132	86	53-132	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-7		SW-2D					
Job No	Lab ID	A05-3876	A5387601	A05-3876	A5387602				
Sample Date		04/20/2005		04/20/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	8.5	1.3	13.4	1.2	NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5387601 A5387601MS A5387601SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	8.53	28.40	28.48	22.89	23.62	87	84	86	4	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK221							
Job No	Lab ID	A05-3876	A5387603						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chlorobenzene	UG/KG	ND	10	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	50	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	10	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	10	NA		NA		NA	
SURROGATE(S)									
a,a,a-Trifluorotoluene	%	108	76-127	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank		SW-2D		SW-2D			
Job No	Lab ID	A05-3876	A5387604	A05-3876	A5387602MS	A05-3876	A5387602SD		
Sample Date				04/20/2005		04/20/2005			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chlorobenzene	UG/KG	210	10	330	12	340	12	NA	
1,2-Dichlorobenzene	UG/KG	210	50	320	58	320	58	NA	
1,3-Dichlorobenzene	UG/KG	210	10	230	12	230	12	NA	
1,2,4-Trichlorobenzene	UG/KG	180	10	210	12	220	12	NA	
SURROGATE(S)									
a,a,a-Trifluorotoluene	%	104	76-127	102	76-127	106	76-127	NA	

NA = Not Applicable ND = Not Detected

Client ID		SBLK							
Job No	Lab ID	A05-3876	A5B0563502						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	88	50-200	NA		NA		NA	
Naphthalene-D8	%	90	50-200	NA		NA		NA	
Acenaphthene-D10	%	88	50-200	NA		NA		NA	
Phenanthrene-D10	%	91	50-200	NA		NA		NA	
Chrysene-D12	%	92	50-200	NA		NA		NA	
Perylene-D12	%	90	50-200	NA		NA		NA	
Nitrobenzene-D5	%	75	41-120	NA		NA		NA	
2-Fluorobiphenyl	%	86	50-120	NA		NA		NA	
p-Terphenyl-d14	%	82	53-137	NA		NA		NA	
Phenol-D5	%	79	41-120	NA		NA		NA	
2-Fluorophenol	%	71	33-120	NA		NA		NA	
2,4,6-Tribromophenol	%	84	53-132	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Matrix Spike Blank							
Job No	Lab ID	A05-3876	A5B0563501						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/KG	ND	330	NA		NA		NA	
Nitrobenzene	UG/KG	ND	330	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	83	50-200	NA		NA		NA	
Naphthalene-D8	%	85	50-200	NA		NA		NA	
Acenaphthene-D10	%	83	50-200	NA		NA		NA	
Phenanthrene-D10	%	85	50-200	NA		NA		NA	
Chrysene-D12	%	85	50-200	NA		NA		NA	
Perylene-D12	%	86	50-200	NA		NA		NA	
Nitrobenzene-D5	%	73	41-120	NA		NA		NA	
2-Fluorobiphenyl	%	88	50-120	NA		NA		NA	
p-Terphenyl-d14	%	86	53-137	NA		NA		NA	
Phenol-D5	%	76	41-120	NA		NA		NA	
2-Fluorophenol	%	67	33-120	NA		NA		NA	
2,4,6-Tribromophenol	%	91	53-132	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-3876	A5B0564602						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	ND	1.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		BS-7		BS-7		LCS CLP Soils			
Job No	Lab ID	A05-3876	A5387601MS	A05-3876	A5387601SD	A05-3876	A5B0564601		
Sample Date		04/20/2005		04/20/2005					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/KG	28.4	1.1	28.5	1.2	116	1.0	NA	

NA = Not Applicable ND = Not Detected

SAMPLE DATE 04/20/2005

Client Sample ID: SW-2D SW-2D SW-2D
Lab Sample ID: A5387602 A5387602MS A5387602SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			%	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg	RPD	RPD	REC.
SOIL-SW8463 8021 - SELECT TIFFT&HOPKINS												
1,2,4-Trichlorobenzene	UG/KG	0	210	220	232	232	91	95	93	4	30.0	74-125
Chlorobenzene	UG/KG	147	329	339	232	232	78	82	80	5	30.0	70-130
1,2-Dichlorobenzene	UG/KG	92.0	320	321	232	232	98	99	99	1	30.0	70-130
1,3-Dichlorobenzene	UG/KG	0	233	233	232	232	100	100	100	0	30.0	70-130

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK221 Matrix Spike Blank
Lab Sample ID: A5387603 A5387604

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
SOIL-SW8463 8021 - SELECT TIFFT&HOPKINS					
1,2,4-Trichlorobenzene	UG/KG	184	200	92	74-125
Chlorobenzene	UG/KG	210	200	105	70-130
1,2-Dichlorobenzene	UG/KG	211	200	106	70-130
1,3-Dichlorobenzene	UG/KG	210	200	105	70-130

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SAMPLE DATE 04/20/2005

Client Sample ID: BS-7 BS-7 BS-7
Lab Sample ID: A5387601 A5387601MS A5387601SD

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
		Sample	Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
TOTAL METALS ANALYSIS												
TOTAL LEAD	MG/KG	8.53	28.40	28.48	22.89	23.62	87	84	86	4	20.0	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LCS CLP Soils
Lab Sample ID: A5B0564602 A5B0564601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
TOTAL LEAD	MG/KG	116.2	121.0	96	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SOIL-SW8463 8021 - SELECT TIFFT&HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	BS-7 A05-3876 A5387601	SW-2D A05-3876 A5387602			
Sample Date	04/20/2005 09:15	04/20/2005 09:30			
Received Date	04/20/2005 17:50	04/20/2005 17:50			
Extraction Date					
Analysis Date	04/21/2005 15:11	04/21/2005 15:57			
Extraction HT Met?	-	-			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL MED	SOIL MED			
Dilution Factor	1.0	1.0			
Sample wt/vol	5.17 GRAMS	5.09 GRAMS			
% Dry	80.51	83.82			

NA = Not Applicable

SOIL-SW8463 8021 - SELECT TIFFT&HOPKINS VOAS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-3876 A5387604	SW-2D A05-3876 A5387602MS	SW-2D A05-3876 A5387602SD		
Sample Date		04/20/2005 09:30	04/20/2005 09:30		
Received Date		04/20/2005 17:50	04/20/2005 17:50		
Extraction Date					
Analysis Date	04/21/2005 13:58	04/21/2005 16:53	04/21/2005 17:39		
Extraction HT Met?	-	-	-		
Analytical HT Met?	-	YES	YES		
Sample Matrix	SOIL MED	SOIL MED	SOIL MED		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	5.0 GRAMS	5.14 GRAMS	5.14 GRAMS		
% Dry	100.00	83.82	83.82		

NA = Not Applicable

SOIL-SW8463 8021 - SELECT TIFFT&HOPKINS VOAS

Client Sample ID	VBLK221				
Job No & Lab Sample ID	A05-3876 A5387603				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	04/21/2005 13:12				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL MED				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	BS-7 A05-3876 A5387601	SW-2D A05-3876 A5387602			
Sample Date	04/20/2005 09:15	04/20/2005 09:30			
Received Date	04/20/2005 17:50	04/20/2005 17:50			
Extraction Date	04/21/2005 07:00	04/21/2005 07:00			
Analysis Date	04/21/2005 16:01	04/21/2005 16:27			
Extraction HT Met?	YES	YES			
Analytical HT Met?	YES	YES			
Sample Matrix	SOIL LOW	SOIL LOW			
Dilution Factor	1.0	1.0			
Sample wt/vol	30.34 GRAMS	30.95 GRAMS			
% Dry	79.41	83.02			

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A05-3876 A5B0563501				
Sample Date					
Received Date					
Extraction Date	04/21/2005 07:00				
Analysis Date	04/21/2005 15:09				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.02 GRAMS				
% Dry	100.00				

NA = Not Applicable

SOIL SW8463 8270 - SELECT TIFFT & HOPKINS SVOA

Client Sample ID	SBLK				
Job No & Lab Sample ID	A05-3876 A5B0563502				
Sample Date					
Received Date					
Extraction Date	04/21/2005 07:00				
Analysis Date	04/21/2005 15:35				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	30.12 GRAMS				
% Dry	100.00				

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5387601	BS-7	MG/KG	Lead - Total	6010	1.00	04/20/2005 09:15	04/20 17:50	NA	NA	04/21 22:17	Yes	SOIL
A5387602	SW-2D	MG/KG	Lead - Total	6010	1.00	04/20/2005 09:30	04/20 17:50	NA	NA	04/21 22:35	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5387601MS	BS-7	MG/KG	Lead - Total	6010	1.00	04/20/2005 09:15	04/20 17:50	NA	NA	04/21 22:26	Yes	SOIL
A5387601SD	BS-7	MG/KG	Lead - Total	6010	1.00	04/20/2005 09:15	04/20 17:50	NA	NA	04/21 22:31	Yes	SOIL
A5B0564602	Method Blank	MG/KG	Lead - Total	6010	1.00	-	- 17:50	NA	NA	04/21 21:54	Yes	SOIL
A5B0564601	LCS CLP Soils	MG/KG	Lead - Total	6010	1.00	-	- 17:50	NA	NA	04/21 22:09	Yes	SOIL

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
HONEYWELL C/O PARSONS	MARK RAYBUCK	4/20/05	192160
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
180 LAWRENCE BELL DR.	716 432 7685		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
WILLIAMSVILLE / NY / 14221	J Poulsen	B Fischer	
Project Name and Location (State)	**Carrier/Waybill Number**		
TIFFT / HOOKINS			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis: VOCs	SVOCs	Pb	Special Instructions/ Conditions of Receipt
BS-7	4/20	0915				Y	Y						✓	✓	✓	
SW-2D	4/20	0930				Y	Y						✓	✓	✓	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/20/05	1750	1. Received By	04/20/05	1750
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 18.8°C NO ICE

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

33/33

ANALYTICAL REPORT

Job#: A05-5667

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

06/15/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5566701	MW-4	WATER	06/02/2005	09:00	06/02/2005	14:07
A5566702	MW-6	WATER	06/02/2005	08:30	06/02/2005	14:07
A5566703	MW-7	WATER	06/02/2005	08:00	06/02/2005	14:07
A5566704	MW-8	WATER	06/02/2005	09:30	06/02/2005	14:07
A5566705	MW-DUP	WATER	06/02/2005	12:00	06/02/2005	14:07
A5566706	TRIP BLANK	WATER	06/02/2005		06/02/2005	14:07

METHODS SUMMARY

Job#: A05-5667

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - SECLECT VOLATILE ORGANICS	SW8463 8260/5ML
METHOD 8270 - SEL SEMI-VOLATILE ORGANICS	SW8463 8270
Lead - Total	SW8463 6010

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

NON-CONFORMANCE SUMMARY

Job#: A05-5667

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-5667
Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The requested target analyte list does not include any spiking compounds routinely analyzed. Spike recovery data has not been included in the report.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

****

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

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
MW-4	A5566701	8260/5ML	5.00	003
MW-6	A5566702	8260/5ML	5.00	003
MW-8	A5566704	8260/5ML	5.00	003
MW-DUP	A5566705	8260/5ML	5.00	003

Dilution Code Definition:

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Client ID		MW-4		MW-6		MW-7		MW-8	
Job No	Lab ID	A05-5667	A5566701	A05-5667	A5566702	A05-5667	A5566703	A05-5667	A5566704
Sample Date		06/02/2005		06/02/2005		06/02/2005		06/02/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/L	ND	25	ND	25	ND	5.0	ND	25
1,3-Dichlorobenzene	UG/L	ND	25	ND	25	ND	5.0	ND	25
Chlorobenzene	UG/L	ND	25	ND	25	ND	5.0	24 J	25
1,2,4-Trichlorobenzene	UG/L	ND	25	ND	25	ND	5.0	ND	25
IS/SURROGATE(S)									
Chlorobenzene-D5	%	100	50-200	103	50-200	103	50-200	103	50-200
1,4-Difluorobenzene	%	102	50-200	105	50-200	107	50-200	105	50-200
1,4-Dichlorobenzene-D4	%	93	50-200	86	50-200	96	50-200	93	50-200
Toluene-D8	%	102	77-122	100	77-122	106	77-122	105	77-122
p-Bromofluorobenzene	%	101	74-120	95	74-120	106	74-120	100	74-120
1,2-Dichloroethane-D4	%	106	73-136	102	73-136	107	73-136	102	73-136

Client ID		MW-DUP							
Job No	Lab ID	A05-5667	A5566705						
Sample Date		06/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/L	ND	25	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	25	NA		NA		NA	
Chlorobenzene	UG/L	ND	25	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	25	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	105	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	107	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	98	50-200	NA		NA		NA	
Toluene-D8	%	103	77-122	NA		NA		NA	
p-Bromofluorobenzene	%	102	74-120	NA		NA		NA	
1,2-Dichloroethane-D4	%	104	73-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MW-4		MW-6		MW-7		MW-8	
Job No / Lab ID		A05-5667	A5566701	A05-5667	A5566702	A05-5667	A5566703	A05-5667	A5566704
Sample Date		06/02/2005		06/02/2005		06/02/2005		06/02/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/L	ND	11	ND	10	ND	10	5 J	10
Nitrobenzene	UG/L	ND	11	ND	10	ND	10	ND	10
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	114	50-200	121	50-200	99	50-200	105	50-200
Naphthalene-D8	%	117	50-200	124	50-200	101	50-200	109	50-200
Acenaphthene-D10	%	116	50-200	121	50-200	101	50-200	112	50-200
Phenanthrene-D10	%	120	50-200	126	50-200	104	50-200	109	50-200
Chrysene-D12	%	119	50-200	126	50-200	105	50-200	113	50-200
Perylene-D12	%	121	50-200	126	50-200	105	50-200	112	50-200
Nitrobenzene-D5	%	59	52-120	57	52-120	72	52-120	77	52-120
2-Fluorobiphenyl	%	70	21-120	68	21-120	82	21-120	83	21-120
p-Terphenyl-d14	%	70	36-138	73	36-138	81	36-138	80	36-138
Phenol-D5	%	25	13-120	23	13-120	28	13-120	30	13-120
2-Fluorophenol	%	33	21-120	31	21-120	38	21-120	42	21-120
2,4,6-Tribromophenol	%	93	62-133	94	62-133	109	62-133	109	62-133

Client ID		MW-DUP							
Job No / Lab ID		A05-5667	A5566705						
Sample Date		06/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/L	ND	10	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	105	50-200	NA		NA		NA	
Naphthalene-D8	%	108	50-200	NA		NA		NA	
Acenaphthene-D10	%	108	50-200	NA		NA		NA	
Phenanthrene-D10	%	112	50-200	NA		NA		NA	
Chrysene-D12	%	111	50-200	NA		NA		NA	
Perylene-D12	%	112	50-200	NA		NA		NA	
Nitrobenzene-D5	%	73	52-120	NA		NA		NA	
2-Fluorobiphenyl	%	82	21-120	NA		NA		NA	
p-Terphenyl-d14	%	79	36-138	NA		NA		NA	
Phenol-D5	%	29	13-120	NA		NA		NA	
2-Fluorophenol	%	39	21-120	NA		NA		NA	
2,4,6-Tribromophenol	%	112	62-133	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MW-4		MW-6		MW-7		MW-8	
Job No / Lab ID		A05-5667	A5566701	A05-5667	A5566702	A05-5667	A5566703	A05-5667	A5566704
Sample Date		06/02/2005		06/02/2005		06/02/2005		06/02/2005	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/L	0.0080	0.0050	ND	0.0050	ND	0.0050	ND	0.0050

Client ID		MW-DUP							
Job No / Lab ID		A05-5667	A5566705						
Sample Date		06/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/L	0.0070	0.0050	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Batch Quality Control Data

Lab Sample ID: A5560801 A5560801MS A5560801SD

Analyte	Units of Measure	Concentration Sample	Matrix Spike	Spike Duplicate	Spike Amount MS	MSD	% Recovery MS	MSD	Avg	% RPD	QC LIMITS RPD	REC.
TOTAL METALS - METHOD 200.7 - AQ												
TOTAL ANTIMONY	MG/L	0	0.220	0.213	0.200	0.200	110	107	109	3	20.0	85-115
TOTAL ARSENIC	MG/L	0.00140	0.201	0.202	0.200	0.200	100	101	101	1	20.0	70-130
TOTAL BARIUM	MG/L	0.0151	0.215	0.214	0.200	0.200	100	100	100	0	20.0	85-115
TOTAL BERYLLIUM	MG/L	0.00010	0.203	0.202	0.200	0.200	101	101	101	0	20.0	85-115
TOTAL CADMIUM	MG/L	0	0.197	0.192	0.200	0.200	99	96	98	3	20.0	85-115
TOTAL COPPER	MG/L	0.00220	0.200	0.201	0.200	0.200	99	100	100	1	20.0	85-115
TOTAL LEAD	MG/L	0.00050	0.204	0.203	0.200	0.200	102	101	102	1	20.0	85-115
TOTAL SELENIUM	MG/L	0	0.199	0.191	0.200	0.200	100	96	98	4	20.0	85-115
TOTAL SILVER	MG/L	0	0.0477	0.0473	0.0500	0.0500	95	95	95	0	20.0	70-130
TOTAL THALLIUM	MG/L	0	0.194	0.183	0.200	0.200	97	92	95	5	20.0	85-115
TOTAL ZINC	MG/L	0.0387	0.233	0.233	0.200	0.200	98	97	98	1	20.0	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK45		VBLK46					
Job No	Lab ID	A05-5667	A5B0859802	A05-5667	A5B0859804				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	NA		NA	
Chlorobenzene	UG/L	ND	5.0	ND	5.0	NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	ND	5.0	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	86	50-200	84	50-200	NA		NA	
1,4-Difluorobenzene	%	88	50-200	87	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	80	50-200	72	50-200	NA		NA	
Toluene-D8	%	108	77-122	103	77-122	NA		NA	
p-Bromofluorobenzene	%	108	74-120	96	74-120	NA		NA	
1,2-Dichloroethane-D4	%	123	73-136	116	73-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB45		MSB46					
Job No	Lab ID	A05-5667	A5B0859801	A05-5667	A5B0859803				
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/L	25	5.0	25	5.0	NA		NA	
1,3-Dichlorobenzene	UG/L	24	5.0	24	5.0	NA		NA	
Chlorobenzene	UG/L	25	5.0	25	5.0	NA		NA	
1,2,4-Trichlorobenzene	UG/L	25	5.0	26	5.0	NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	94	50-200	96	50-200	NA		NA	
1,4-Difluorobenzene	%	94	50-200	97	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	93	50-200	98	50-200	NA		NA	
Toluene-D8	%	103	77-122	103	77-122	NA		NA	
p-Bromofluorobenzene	%	105	74-120	107	74-120	NA		NA	
1,2-Dichloroethane-D4	%	117	73-136	114	73-136	NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		TRIP BLANK							
Job No	Lab ID	A05-5667	A5566706						
Sample Date		06/02/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,2-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	104	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	106	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	93	50-200	NA		NA		NA	
Toluene-D8	%	103	77-122	NA		NA		NA	
p-Bromofluorobenzene	%	100	74-120	NA		NA		NA	
1,2-Dichloroethane-D4	%	100	73-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		S Blank							
Job No	Lab ID	A05-5667	A5B0829502						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/L	ND	10	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	112	50-200	NA		NA		NA	
Naphthalene-D8	%	114	50-200	NA		NA		NA	
Acenaphthene-D10	%	114	50-200	NA		NA		NA	
Phenanthrene-D10	%	114	50-200	NA		NA		NA	
Chrysene-D12	%	114	50-200	NA		NA		NA	
Perylene-D12	%	114	50-200	NA		NA		NA	
Nitrobenzene-D5	%	75	52-120	NA		NA		NA	
2-Fluorobiphenyl	%	82	21-120	NA		NA		NA	
p-Terphenyl-d14	%	107	36-138	NA		NA		NA	
Phenol-D5	%	30	13-120	NA		NA		NA	
2-Fluorophenol	%	43	21-120	NA		NA		NA	
2,4,6-Tribromophenol	%	111	62-133	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		MW-6 A05-5667 A5566702MS 06/02/2005		MW-6 A05-5667 A5566702SD 06/02/2005		Matrix Spike Blank A05-5667 A5B0829501			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
4-Chloroaniline	UG/L	ND	21	ND	21	ND	10	NA	
Nitrobenzene	UG/L	ND	21	ND	21	ND	10	NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	107	50-200	102	50-200	121	50-200	NA	
Naphthalene-D8	%	110	50-200	102	50-200	124	50-200	NA	
Acenaphthene-D10	%	108	50-200	102	50-200	120	50-200	NA	
Phenanthrene-D10	%	114	50-200	104	50-200	124	50-200	NA	
Chrysene-D12	%	116	50-200	105	50-200	122	50-200	NA	
Perylene-D12	%	116	50-200	106	50-200	120	50-200	NA	
Nitrobenzene-D5	%	71	52-120	69	52-120	74	52-120	NA	
2-Fluorobiphenyl	%	81	21-120	79	21-120	85	21-120	NA	
p-Terphenyl-d14	%	96	36-138	98	36-138	104	36-138	NA	
Phenol-D5	%	45	13-120	45	13-120	30	13-120	NA	
2-Fluorophenol	%	50	21-120	49	21-120	41	21-120	NA	
2,4,6-Tribromophenol	%	106	62-133	108	62-133	108	62-133	NA	

NA = Not Applicable ND = Not Detected

Client ID		Method Blank							
Job No	Lab ID	A05-5667	A5B0826802						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/L	ND	0.0050	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		LFB							
Job No	Lab ID	A05-5667	A5B0826801						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Lead - Total	MG/L	0.21	0.0050	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK45 MSB45
Lab Sample ID: A5B0859802 A5B0859801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - SECLECT VOLATILE ORGANICS					
Chlorobenzene	UG/L	24.6	25.0	99	73-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK46 MSB46
Lab Sample ID: A5B0859804 A5B0859803

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
METHOD 8260 - SECLECT VOLATILE ORGANICS					
Chlorobenzene	UG/L	25.3	25.0	101	73-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank LFB
Lab Sample ID: A5B0826802 A5B0826801

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
TOTAL METALS ANALYSIS					
PARSONS - TOTAL LEAD - W	MG/L	0.206	0.200	103	80-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

METHOD 8260 - SECLECT VOLATILE ORGANICS

Client Sample ID	MW-4	MW-6	MW-7	MW-8	MW-DUP
Job No & Lab Sample ID	A05-5667 A5566701	A05-5667 A5566702	A05-5667 A5566703	A05-5667 A5566704	A05-5667 A5566705
Sample Date	06/02/2005 09:00	06/02/2005 08:30	06/02/2005 08:00	06/02/2005 09:30	06/02/2005 12:00
Received Date	06/02/2005 14:07	06/02/2005 14:07	06/02/2005 14:07	06/02/2005 14:07	06/02/2005 14:07
Extraction Date					
Analysis Date	06/08/2005 18:50	06/08/2005 18:29	06/08/2005 18:09	06/08/2005 17:48	06/08/2005 17:28
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	5.0	5.0	1.0	5.0	5.0
Sample wt/vol	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS
% Dry					

NA = Not Applicable

METHOD 8260 - SECLECT VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	TRIP BLANK A05-5667 A5566706				
Sample Date	06/02/2005				
Received Date	06/02/2005 14:07				
Extraction Date					
Analysis Date	06/08/2005 17:07				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

METHOD 8260 - SECLECT VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MSB45 A05-5667 A5B0859801	MSB46 A05-5667 A5B0859803			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	06/08/2005 08:34	06/08/2005 08:54			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	0.005 LITERS	0.005 LITERS			
% Dry					

NA = Not Applicable

METHOD 8260 - SECLECT VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	VBLK45 A05-5667 A5B0859802	VBLK46 A05-5667 A5B0859804			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	06/08/2005 09:16	06/08/2005 09:36			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	0.005 LITERS	0.005 LITERS			
% Dry					

NA = Not Applicable

METHOD 8270 - SEL SEMI-VOLATILE ORGANICS

Client Sample ID / Job No & Lab Sample ID	MW-4 A05-5667 A5566701	MW-6 A05-5667 A5566702	MW-7 A05-5667 A5566703	MW-8 A05-5667 A5566704	MW-DUP A05-5667 A5566705
Sample Date	06/02/2005 09:00	06/02/2005 08:30	06/02/2005 08:00	06/02/2005 09:30	06/02/2005 12:00
Received Date	06/02/2005 14:07	06/02/2005 14:07	06/02/2005 14:07	06/02/2005 14:07	06/02/2005 14:07
Extraction Date	06/04/2005 08:00	06/04/2005 08:00	06/04/2005 08:00	06/04/2005 08:00	06/04/2005 08:00
Analysis Date	06/08/2005 12:54	06/08/2005 13:20	06/08/2005 14:39	06/08/2005 15:05	06/08/2005 15:31
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	0.94 LITERS	1.0 LITERS	1.02 LITERS	0.96 LITERS	0.96 LITERS
% Dry					

NA = Not Applicable

METHOD 8270 - SEL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	MW-6 A05-5667 A5566702MS	MW-6 A05-5667 A5566702SD	Matrix Spike Blank A05-5667 A5B0829501		
Sample Date	06/02/2005 08:30	06/02/2005 08:30			
Received Date	06/02/2005 14:07	06/02/2005 14:07			
Extraction Date	06/04/2005 08:00	06/04/2005 08:00	06/04/2005 08:00		
Analysis Date	06/08/2005 13:47	06/08/2005 14:13	06/08/2005 12:01		
Extraction HT Met?	YES	YES	-		
Analytical HT Met?	YES	YES	-		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	0.485 LITERS	0.485 LITERS	1.0 LITERS		
% Dry					

NA = Not Applicable

METHOD 8270 - SEL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	S Blank A05-5667 A5B0829502				
Sample Date					
Received Date					
Extraction Date	06/04/2005 08:00				
Analysis Date	06/08/2005 12:28				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5566701	MW-4	MG/L	Lead - Total	6010	1.00	06/02/2005 09:00	06/02 14:07	NA	NA	06/06 18:09	Yes	WATER
A5566702	MW-6	MG/L	Lead - Total	6010	1.00	06/02/2005 08:30	06/02 14:07	NA	NA	06/06 18:14	Yes	WATER
A5566703	MW-7	MG/L	Lead - Total	6010	1.00	06/02/2005 08:00	06/02 14:07	NA	NA	06/06 18:19	Yes	WATER
A5566704	MW-8	MG/L	Lead - Total	6010	1.00	06/02/2005 09:30	06/02 14:07	NA	NA	06/06 18:35	Yes	WATER
A5566705	MW-DUP	MG/L	Lead - Total	6010	1.00	06/02/2005 12:00	06/02 14:07	NA	NA	06/06 18:39	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A5B0826802	Method Blank	MG/L	Lead - Total	6010	1.00	-	- 14:07	NA	NA	06/06 16:35	Yes	WATER
A5B0826801	LFB	MG/L	Lead - Total	6010	1.00	-	- 14:07	NA	NA	06/06 16:40	Yes	WATER

AHT = Analysis Holding Time Met
THT = TCLP Holding Time Met
NA = Not Applicable

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Honeywell / Parsons	Project Manager: Mark Raybuck	Date: 6/02/05	Chain of Custody Number: 211952
Address: 180 Lawrence Bell Dr. Ste #104	Telephone Number (Area Code)/Fax Number: (716) 633-7074 / (716) 633-7195	Lab Number:	Page 1 of 1
City: Williamsville; State: NY; Zip Code: 14221	Site Contact: J. Poulsen	Lab Contact: B. Fischer	
Project Name and Location (State): ~~AllTrff~~ - Tiffi & Hopkins - Buffalo NY	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: 440707			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Select SVOA	Select VOA	T PB	Special Instructions/ Conditions of Receipt
MW-4	6/02/05	0900		X			2		1	2			X	X	X	
MW-6	6/02/05	0830		X			2		1	2			X	X	X	
MW-7	6/02/05	0800		X			2		1	2			X	X	X	
MW-8	6/02/05	0930		X			2		1	2			X	X	X	
MW-DUP	6/02/05	1200		X			2		1	2			X	X	X	
TRIP BLANK	5/27/05	—		X						1				X		

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [ ] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify):

1. Relinquished By: Sara M. Chmura	Date: 6/02/05	Time: 1407	1. Received By: [signature]	Date: 6/2/05	Time: 2:07
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 4.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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ANALYTICAL REPORT

Job#: A05-7335

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.
Task: Tifft and Hopkins

Mark Raybuck
Parsons
180 Lawrence Bell Dr., Ste 104
Williamsville, NY 14221

STL Buffalo

Brian J. Fischer
Project Manager

07/29/2005

STL Buffalo
Current Certifications

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

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A5733501	MW-8	WATER	07/13/2005	12:05	07/13/2005	16:35
A5733502	TRIP BLANK	WATER	07/13/2005		07/13/2005	16:35

METHODS SUMMARY

Job#: A05-7335

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

PARAMETER	ANALYTICAL METHOD
PARSONS-AQ-SW8463 8260 - CHLOROBENZENE ONLY - 5 ML	SW8463 8260/5ML

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

NON-CONFORMANCE SUMMARY

Job#: A05-7335

STL Project#: NY0A8578
Site Name: PARSON'S ENGINEERING SCIENCE INC.

General Comments

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

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

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

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

Sample Receipt Comments

A05-7335
Sample Cooler(s) were received at the following temperature(s); 18.0 °C
Sample MW-8 was received at a temperature of 18.0°C. As the sample was collected the same day, it was not possible for the sample to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

****

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
[1]	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Client ID		MW-8							
Job No	Lab ID	A05-7335	A5733501						
Sample Date		07/13/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chlorobenzene	UG/L	40	1.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	93	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	93	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	93	50-200	NA		NA		NA	
Toluene-D8	%	107	76-122	NA		NA		NA	
p-Bromofluorobenzene	%	103	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	104	72-143	NA		NA		NA	

7/17

NA = Not Applicable ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK19							
Job No	Lab ID	A05-7335	A5B1110702						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	102	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	103	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	100	50-200	NA		NA		NA	
Toluene-D8	%	101	76-122	NA		NA		NA	
p-Bromofluorobenzene	%	98	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	99	72-143	NA		NA		NA	

9/17

NA = Not Applicable ND = Not Detected

Client ID		MSB19							
Job No	Lab ID	A05-7335	A5B1110701						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chlorobenzene	UG/L	22	1.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	103	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	103	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	104	50-200	NA		NA		NA	
Toluene-D8	%	102	76-122	NA		NA		NA	
p-Bromofluorobenzene	%	101	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	99	72-143	NA		NA		NA	

10/17

NA = Not Applicable ND = Not Detected

Client ID		TRIP BLANK							
Job No	Lab ID	A05-7335	A5733502						
Sample Date		07/13/2005							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chlorobenzene	UG/L	ND	1.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	100	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	101	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	98	50-200	NA		NA		NA	
Toluene-D8	%	105	76-122	NA		NA		NA	
p-Bromofluorobenzene	%	102	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	103	72-143	NA		NA		NA	

11/17

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK19 MSB19
Lab Sample ID: A5B1110702 A5B1110701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
PARSONS-AQ-SW8463 8260 - CHLOROBENZENE O					
Chlorobenzene	UG/L	22.3	25.0	89	73-120

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

PARSONS-AQ-SW8463 8260 - CHLOROBENZENE ONLY - 5 ML

Client Sample ID	MW-8				
Job No & Lab Sample ID	A05-7335 A5733501				
Sample Date	07/13/2005 12:05				
Received Date	07/13/2005 16:35				
Extraction Date					
Analysis Date	07/22/2005 05:18				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

PARSONS-AQ-SW8463 8260 - CHLOROBENZENE ONLY - 5 ML

Client Sample ID Job No & Lab Sample ID	TRIP BLANK A05-7335 A5733502				
Sample Date	07/13/2005				
Received Date	07/13/2005 16:35				
Extraction Date					
Analysis Date	07/22/2005 00:33				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

PARSONS-AQ-SW8463 8260 - CHLOROBENZENE ONLY - 5 ML

Client Sample ID	MSB19				
Job No & Lab Sample ID	A05-7335 A5B1110701				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/21/2005 22:07				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

PARSONS-AQ-SW8463 8260 - CHLOROBENZENE ONLY - 5 ML

Client Sample ID	VBLK19				
Job No & Lab Sample ID	A05-7335 A5B1110702				
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/21/2005 23:42				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

NA = Not Applicable

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Honeywell c/o Parsons	~~Rikki~~ Paybuck	7/13/05	192867
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
180 Lawrence Bell Dr.	716 432-7685		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Williamsville / NY / 14202	J. Poulson	B. Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
Tifft & Hopkins NY			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Chlorobenzene only	Special Instructions/ Conditions of Receipt
MW-8	7/13	1205		X						X				

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7/13/05	1635	1. Received By		
2. Relinquished By			2. Received By	07/13/05	1635
3. Relinquished By			3. Received By		

Comments

18.0°C

No Ice

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

17/17

APPENDIX H

MATERIALS SUBMITTALS

Tifft and Hopkins Site Transmittal Log

Transmittal Number	Date	Description	Status	Submittal Number
3	10-Feb-05	Geotechnical and Chemical Testing Results - Daigler Unclassified Fill, Lafarge Unclassified Fill	Approved	02223-1 (1.03 A1 &A2)
4	15-Feb-04	Geotechnical and Chemical Testing Results - Gunner Gravel Unclassified Fill	Approved	02223-2 (1.03 A1 &A2)
9	30-Mar-05	Chemical Testing Results - Gunner Gravel Unclassified Fill	Approved	02223-4 (1.03 A1 &A2)
16	13-May-05	Chemical Testing Results - Gunner Gravel Unclassified Fill	Approved	02223-5 (1.03 A1 &A2)
8	17-Mar-05	Reinforced Geotextile Cut Sheet (Carthage Mills FX 66) and Carthage Mills FX 66 Geotextile Samples	Approved	02421-1 (1.04 A)
10	31-Mar-05	Item No. 304.12 Type 2 Subbase Gradation From Buffalo Crushed Stone	Approved	02501-1 (1.06B)
15	9-May-05	Chain Link Fencing Detail and Product Data from Sharon Metal Fence	Approved	02820-1a (1.02)

PARSONS

180 Lawrence Bell Drive, Suite 104 • Williamsville, New York 14221 • (716) 633-7074 • Fax: (716) 633-7195 • www.parsons.com

February 22, 2005

Mr. Jeff Dunn
Tug Hill Construction
40 Pine Street
Lockport, NY 14094

RE: Tifft and Hopkins Site
Submittal No. 02223-1 (1.03 A1&A2)
Daigler Clay
Lafarge Clay

Dear Mr. Dunn:

Parsons has reviewed Submittal No.02223-1 (A1&A2) Geotechnical and Chemical Testing Results – Daigler Clay and Lafarge Clay.

This submittal meets the requirement in the Remedial Construction Work Plan. The Lafarge Clay is approved for use as unclassified fill. The Daigler clay is approved with the following conditions.

Daigler clay cannot be used within 3 feet of the final surface elevation.

If you have any questions or require additional information, please feel free to me at (716) 633-7074.

Sincerely,

Jeffrey Poulsen

cc: Christopher Burns (Clough Harbour)
Bob Jackson (Parsons at Honeywell)
File (440707 No. [redacted])

TUG HILL Construction, Inc.
ENVIRONMENTAL EARTHWORK CONTRACTORS

40 Pine Street
Lockport, New York 14094
Tel: (716) 433-6606
Fax: (716) 433-6607

LETTER OF TRANSMITTAL

3

DATE:	February 10, 2005
PROJECT:	HONEYWELL - TIFFT & HOPKINS PROJECT
ATTENTION:	Jeff Poulson

TO:

Parsons

579 Tifft Street

Buffalo, NY 14220

RE: Submittal No - 02223-1 (1.03 A1 & A2)

We are sending you:

- [X] Attached
- [ ] Delivered by Hand
- [ ] via Overnight
- [ ] Prints
- [ ] Copy of Letter
- [ ] Plans
- [ ] Specifications
- [ ] Shop Drawings
- [ ] Samples
- [X] Submittals
- [ ] Other _____

COPIES	DATE	NO.	DESCRIPTION
4	10/5/04		Geotechnical & Chemical Testing Results - Daigler Unclassified Fill
4	03/05/04		Geotechnical & Chemical Testing Results - Lafarge Unclassified Fill

- [X] For your use
- [ ] Approval as noted
- [ ] Return ___ corrected prints
- [X] For approval
- [ ] Approved for construction
- [ ] For bids due _____
- [X] As requested
- [ ] Returned for corrections
- [ ] Submit ___ copies for
- [ ] For review/distribution
- [ ] Returned after loan to us
- [ ] Re-submit ___ copies for
- [ ] Other _____

Remarks

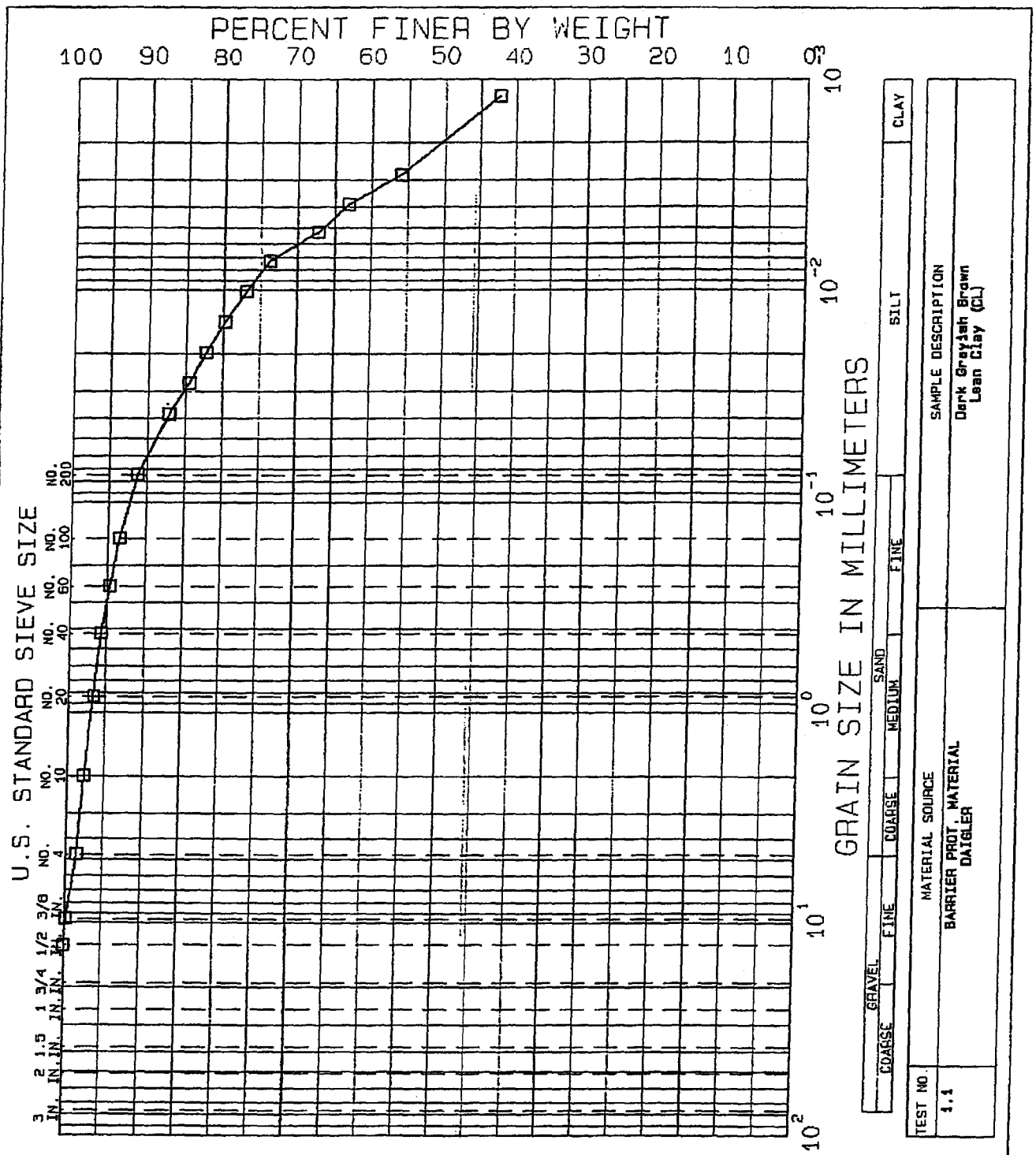
Please review/ comment and contact me if you have any questions

If enclosures are not as indicated,

please notify us at once.

Signed: _____

Jeff Dunn, Project Controls Engineer



Test Procedure Information:

Sample separated on a No. 4 sieve. Sample dispersed with a mechanical stirring device, Type A, for 1 minute.

ALLTIFT LANDFILL
BUFFALO, NEW YORK
PARTICLE-SIZE ANALYSIS

EXPLOR. NO.	BULK BAG	WORK ORDER NO.	4468
SAMPLE NO.	DAIGBPM-5	DATE	10/05/04
DEPTH			
TECH.	DEW		
REVIEWER	DEW	FILE	55814.00

GZA GeoEnvironmental of New York
Engineers and Scientists

Analytical Testing Results Summary for Barrier Protection Soil
Taken From Daigler Source (Grand Island, NY)

Alltift Landfill Site/Ramco Steel Site
Buffalo, New York

Parameter	Recommended Soil Cleanup Objective ppm	Eastern USA Background ppm	DAIGLER BPM-5 ppm
VOC - EPA Method 8260 (ppm)			
No Compounds Detected		N/A	N/D
SVOC - EPA Method 8270 (ppm)			
No Compounds Detected		N/A	N/D
TAL Metals including Cyanide and Mercury - EPA Methods 6010 and 7174 A (ppm)			
Aluminum	SB	33,000	27,000
Arsenic	7.5 or SB	3-12	5.28
Barium	300 or SB	15-600	173
Beryllium	0.16 or SB	0-1.75	0.906
Calcium	SB	130-35,000	**49,200**
Chromium	10 or SB	1.5-40	31.7
Cobalt	30 or SB	2.5-60	13.6
Copper	25 or SB	1-50	24.5
Iron	2000 or SB	2000-550,000	33,400
Lead	SB	See Note 5	7.85
Magnesium	SB	100-5000	**17,200**
Manganese	SB	50-5000	584
Nickel	13 or SB	0.5-25	**27.9**
Potassium	SB	8500-43,000	2,600
Sodium	SB	6000-8000	180
Vanadium	150 or SB	1-300	40.3
Zinc	20 or SB	9-50	**76.4**

Notes:

1. Only compounds detected in one or more samples are presented on this table. Refer to original data sheets for list of all compounds included in analysis.
2. Analytical testing completed by GZA GeoEnvironmental Laboratories, Inc.
3. Recommended soil cleanup objectives are based on the Division Technical and Administrative Guidance Memorandum (TAGM) 4046 on Determination of Soil Cleanup Objectives and Cleanup Levels in its final form.
4. ND = not detected, NA = not available
5. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.
6. mg/kg = ppm

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8260 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	9/29/2004	
Volatile Organics	Conc. ug/L	Acceptance Limit
dichlorodifluoromethane	< 250	< 250
chloromethane	< 250	< 250
vinyl chloride	< 250	< 250
bromomethane	< 250	< 250
chloroethane	< 250	< 250
trichlorofluoromethane	< 250	< 250
diethyl ether	< 500	< 500
acetone	< 1300	< 1300
1,1-dichloroethene	< 130	< 130
FREON-113	< 250	< 250
carbon disulfide	< 250	< 250
dichloromethane	< 250	< 250
tert-butyl alcohol (TBA)	< 1300	< 1300
methyl-tert-butyl-ether	< 250	< 250
trans-1,2-dichloroethene	< 130	< 130
1,1-dichloroethane	< 130	< 130
di-isopropyl ether (DIPE)	< 250	< 250
ethyl tert-butyl ether (ETBE)	< 250	< 250
2-butanone	< 1300	< 1300
2,2-dichloropropane	< 130	< 130
cis-1,2-dichloroethene	< 130	< 130
chloroform	< 130	< 130
bromochloromethane	< 130	< 130
tetrahydrafuran	< 750	< 750
1,1,1-trichloroethane	< 130	< 130
1,1-dichloropropene	< 130	< 130
carbon tetrachloride	< 130	< 130
1,2-dichloroethane	< 130	< 130
benzene	< 130	< 130
tert-amyl methyl ether (TAME)	< 250	< 250
trichloroethene	< 130	< 130
1,2-dichloropropane	< 130	< 130
bromodichloromethane	< 130	< 130
1,4-Dioxane	< 2500	< 2500
dibromomethane	< 130	< 130
4-methyl-2-pentanone	< 250	< 250
cis-1,3-dichloropropene	< 130	< 130
toluene	< 130	< 130
trans-1,3-dichloropropene	< 130	< 130
1,1,2-trichloroethane	< 250	< 250
2-hexanone	< 250	< 250
1,3-dichloropropane	< 130	< 130
tetrachloroethene	< 130	< 130
dibromochloromethane	< 130	< 130
1,2-dibromoethane (EDB)	< 130	< 130
chlorobenzene	< 130	< 130
1,1,1,2-tetrachloroethane	< 130	< 130
ethylbenzene	< 130	< 130
1,1,2,2-tetrachloroethane	< 130	< 130
m&p-xylene	< 130	< 130
o-xylene	< 130	< 130
styrene	< 130	< 130
bromoform	< 130	< 130
isopropylbenzene	< 130	< 130
1,2,3-trichloropropane	< 130	< 130
bromobenzene	< 130	< 130
n-propylbenzene	< 130	< 130
2-chlorotoluene	< 130	< 130
1,3,5-trimethylbenzene	< 130	< 130
4-chlorotoluene	< 130	< 130
tert-butyl-benzene	< 130	< 130
1,2,4-trimethylbenzene	< 130	< 130
sec-butyl-benzene	< 130	< 130
p-isopropyltoluene	< 750	< 750
1,3-dichlorobenzene	< 130	< 130
1,4-dichlorobenzene	< 130	< 130
n-butylbenzene	< 130	< 130
1,2-dichlorobenzene	< 130	< 130
1,2-dibromo-3-chloropropane	< 130	< 130
1,2,4-trichlorobenzene	< 130	< 130
hexachlorobutadiene	< 130	< 130
naphthalene	< 130	< 130
1,2,3-trichlorobenzene	< 130	< 130

Laboratory Control Sample

Date Analyzed:	9/29/2004		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	142	70-130	out
chloromethane	113	70-130	ok
vinyl chloride	110	70-130	ok
bromomethane	108	70-130	ok
chloroethane	105	70-130	ok
trichlorofluoromethane	101	70-130	ok
diethyl ether	97.5	70-130	ok
acetone	105	70-130	ok
1,1-dichloroethene	101	70-130	ok
FREON-113	97.5	70-130	ok
carbon disulfide	99.0	70-130	ok
dichloromethane	97.0	70-130	ok
tert-butyl alcohol (TBA)	100	70-130	ok
methyl-tert-butyl-ether	92.3	70-130	ok
trans-1,2-dichloroethene	103	70-130	ok
1,1-dichloroethane	97.1	70-130	ok
di-isopropyl ether (DIPE)	100	70-130	ok
ethyl tert-butyl ether (ETBE)	98.3	70-130	ok
2-butanone	99.3	70-130	ok
2,2-dichloropropane	91.1	70-130	ok
cis-1,2-dichloroethene	102	70-130	ok
chloroform	93.7	70-130	ok
bromochloromethane	94.4	70-130	ok
tetrahydrafuran	91.5	70-130	ok
1,1,1-trichloroethane	96.2	70-130	ok
1,1-dichloropropene	99.0	70-130	ok
carbon tetrachloride	96.3	70-130	ok
1,2-dichloroethane	90.9	70-130	ok
benzene	97.2	70-130	ok
tert-amyl methyl ether (TAME)	98.7	70-130	ok
trichloroethene	100	70-130	ok
1,2-dichloropropane	93.5	70-130	ok
bromodichloromethane	95.0	70-130	ok
1,4-Dioxane	97.7	70-130	ok
dibromomethane	95.6	70-130	ok
4-methyl-2-pentanone	98.1	70-130	ok
cis-1,3-dichloropropene	98.6	70-130	ok
toluene	95.5	70-130	ok
trans-1,3-dichloropropene	91.7	70-130	ok
1,1,2-trichloroethane	95.7	70-130	ok
2-hexanone	104	70-130	ok
1,3-dichloropropane	96.7	70-130	ok
tetrachloroethene	99.0	70-130	ok
dibromochloromethane	95.6	70-130	ok
1,2-dibromoethane (EDB)	96.9	70-130	ok
chlorobenzene	101	70-130	ok
1,1,1,2-tetrachloroethane	95.0	70-130	ok
ethylbenzene	102	70-130	ok
1,1,2,2-tetrachloroethane	92.1	70-130	ok
m&p-xylene	97.8	70-130	ok
o-xylene	99.9	70-130	ok
styrene	103	70-130	ok
bromoform	96.4	70-130	ok
isopropylbenzene	100	70-130	ok
1,2,3-trichloropropane	92.2	70-130	ok
bromobenzene	96.0	70-130	ok
n-propylbenzene	104	70-130	ok
2-chlorotoluene	101	70-130	ok
1,3,5-trimethylbenzene	100	70-130	ok
4-chlorotoluene	98.7	70-130	ok
tert-butyl-benzene	97.0	70-130	ok
1,2,4-trimethylbenzene	99.7	70-130	ok
sec-butyl-benzene	101	70-130	ok
p-isopropyltoluene	100	70-130	ok
1,3-dichlorobenzene	98.1	70-130	ok
1,4-dichlorobenzene	95.0	70-130	ok
n-butylbenzene	102	70-130	ok
1,2-dichlorobenzene	91.0	70-130	ok
1,2-dibromo-3-chloropropane	90.6	70-130	ok
1,2,4-trichlorobenzene	96.3	70-130	ok
hexachlorobutadiene	96.6	70-130	ok
naphthalene	98.3	70-130	ok
1,2,3-trichlorobenzene	91.8	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits
DIBROMOFLUOROMETHANE	97.0	70-130
1,2-DICHLOROETHANE-D4	99.6	70-130
TOLUENE-D8	91.0	70-130
4-BROMOFLUOROBENZENE	97.6	70-130
1,2-DICHLOROBENZENE-D4	93.0	70-130

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	99.5	70-130	ok
1,2-DICHLOROETHANE-D4	99.1	70-130	ok
TOLUENE-D8	101	70-130	ok
4-BROMOFLUOROBENZENE	98.2	70-130	ok
1,2-DICHLOROBENZENE-D4	93.3	70-130	ok

Instrument: HP GC/MS "S"

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Laboratory Control Sample

Date Extracted:	09/30/04		
Date Analyzed:	10/01/04		
File Name:	K5659		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
n-nitrosodimethylamine	67.0	40-140	ok
pyridine	62.0	40-140	ok
phenol	110	30-130	ok
bis(2-chloroethyl)ether	116	40-140	ok
2-chlorophenol	79.7	30-130	ok
1,3-dichlorobenzene	68.4	40-140	ok
1,4-dichlorobenzene	76.1	40-140	ok
benzyl alchohol	61.4	40-140	ok
1,2-dichlorobenzene	68.6	40-140	ok
2-methylphenol	77.2	30-130	ok
bis(2-chloroisopropyl)ether	124	40-140	ok
3&4-methylphenol	148	30-130	out
n-nitrosodi-n-propylamine	98.0	40-140	ok
hexachloroethane	78.1	40-140	ok
nitrobenzene	91.3	40-140	ok
isophrone	87.5	40-140	ok
2-nitrophenol	88.2	30-130	ok
2,4-dimethylphenol	78.6	30-130	ok
benzoic acid	75.8	30-130	ok
bis(2-chloroethoxy)methene	84.0	40-140	ok
2,4-dichlorophenol	81.2	30-130	ok
1,2,4-trichlorobenzene	73.7	40-140	ok
napthalene	76.0	40-140	ok
4-chloroaniline	46.1	40-140	ok
hexachlorobutadiene	88.5	40-140	ok
4-chloro-3-methylphenol	84.6	30-130	ok
2-methylnapthalene	72.9	40-140	ok
aniline	69.6	40-140	ok
hexachlorocyclopentadiene	48.0	40-140	ok
2,4,6-trichlorophenol	81.2	30-130	ok
2,4,5-trichlorophenol	70.6	30-130	ok
2-chloronapthalene	88.7	40-140	ok
2-nitroaniline	102	40-140	ok
dimethylphthalate	103	40-140	ok
acenapthylene	92.1	40-140	ok
2,6-dinitrotoluene	93.3	40-140	ok
3-nitroaniline	84.6	40-140	ok
acenaphthene	76.7	40-140	ok
2,4-dinitrophenol	30.1	30-130	ok
dibenzofuran	83.5	40-140	ok
4-nitrophenol	68.6	30-130	ok
2,4-dinitrotoluene	88.1	40-140	ok
diethylphthalate	93.6	40-140	ok
fluorene	88.1	40-140	ok
4-chlorophenyl phenyl ether	88.6	40-140	ok
4-nitroaniline	76.6	40-140	ok
4,6-dinitro-2-methylphenol	54.2	30-130	ok
n-nitrosodiphenylamine	80.2	40-140	ok
4-bromophenyl phenyl ether	72.6	40-140	ok
hexachlorobenzene	76.6	40-140	ok
pentachlorophenol	36.4	30-130	ok
phenanthrene	81.2	40-140	ok
anthracene	69.1	40-140	ok
carbazole	87.8	40-140	ok
di-n-butylphthalate	85.1	40-140	ok
fluoranthene	86.8	40-140	ok
benzidine	0.00	40-140	out
pyrene	82.6	40-140	ok
butylbenzylphthalate	80.4	40-140	ok
benz [a] anthracene	42.6	40-140	ok
3,3'-dichlorobenzidine	47.1	40-140	ok
chrysene	82.8	40-140	ok
bis(2-ethylhexyl)phthalate	103	40-140	ok
di-n-octylphthalate	117	40-140	ok
benzo [b] fluoranthene	79.8	40-140	ok
benzo [k] fluoranthene	69.9	40-140	ok
benzo [a] pyrene	79.0	40-140	ok
indeno (1,2,3-cd) pyrene	61.2	40-140	ok
dibenz [a,h] anthracene	58.8	40-140	ok
benzo [ghi] perylene	63.3	40-140	ok

CAM criteria allows 15% of analytes to exceed criteria.

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
2-FLUOROPHENOL	84.9	30-130	ok
PHENOL-D6	96.4	30-130	ok
NITROBENZENE-D5	84.2	30-130	ok
2-FLUOROBIPHENYL	94.9	30-130	ok
2,4,6-TRIBROMOPHENOL	82.7	30-130	ok
p-TERPHENYL-D14	65.8	30-130	ok

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted:	09/30/04
Date Analyzed:	10/01/04
File Name:	K6649

Volatile Organics	Result	Reporting Limit
n-nitrosodimethylamine	ND	330
pyridine	ND	3300
phenol	ND	330
bis(2-chloroethyl)ether	ND	330
2-chlorophenol	ND	330
1,3-dichlorobenzene	ND	330
1,4-dichlorobenzene	ND	330
benzyl alchohol	ND	660
1,2-dichlorobenzene	ND	330
2-methylphenol	ND	330
bis(2-chloroisopropyl)ether	ND	330
3&4-methylphenol	ND	330
n-nitrosodi-n-propylamine	ND	330
hexachloroethane	ND	330
nitrobenzene	ND	330
isophrone	ND	330
2-nitrophenol	ND	330
2,4-dimethylphenol	ND	330
benzoic acid	ND	330
bis(2-chloroethoxy)methane	ND	330
2,4-dichlorophenol	ND	330
1,2,4-trichlorobenzene	ND	330
napthalene	ND	330
4-chloroaniline	ND	660
hexachlorobutadiene	ND	330
4-chloro-3-methylphenol	ND	660
2-methylnapthalene	ND	330
aniline	ND	330
hexachlorocyclopentadiene	ND	1700
2,4,6-trichlorophenol	ND	330
2,4,5-trichlorophenol	ND	330
2-chloronapthalene	ND	330
2-nitroaniline	ND	1700
dimethylphthalate	ND	330
acenapthylene	ND	330
2,6-dinitrotoluene	ND	330
3-nitroaniline	ND	1700
acenaphthene	ND	330
2,4-dinitrophenol	ND	3300
dibenzofuran	ND	330
4-nitrophenol	ND	1700
2,4-dinitrotoluene	ND	330
diethylphthalate	ND	330
fluorene	ND	330
4-chlorophenyl phenyl ether	ND	330
4-nitroaniline	ND	660
4,6-dinitro-2-methylphenol	ND	1700
n-nitrosodiphenylamine	ND	330
4-bromophenyl phenyl ether	ND	330
hexachlorobenzene	ND	330
pentachlorophenol	ND	1700
phenanthrene	ND	330
anthracene	ND	330
carbazole	ND	330
di-n-butylphthalate	ND	500
fluoranthene	ND	330
benzidine	ND	330
pyrene	ND	330
butylbenzylphthalate	ND	330
benz [a] anthracene	ND	330
3,3'-dichlorobenzidine	ND	660
chrysene	ND	330
bis(2-ethylhexyl)phthalate	ND	330
di-n-octylphthalate	ND	330
benzo [b] fluoranthene	ND	330
benzo [k] fluoranthene	ND	330
benzo [a] pyrene	ND	330
indene [1,2,3-cd] pyrene	ND	330
dibenz [a,h] anthracene	ND	330
benzo [ghi] perylene	ND	330

Surrogates:	Recovery (%)	Acceptance Limits
2-FLUOROPHENOL	69.3	30-130
PHENOL-D6	80.3	30-130
NITROBENZENE-D5	77.4	30-130
2-FLUOROBIPHENYL	68.7	30-130
2,4,6-TRIBROMOPHENOL	61.5	30-130
p-TERPHENYL-D14	75.5	30-130

Report generated: 10/4/04 12:50 PM

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

W.O. # 0409-00153 (for lab use only)

CHAIN-OF-CUSTODY RECORD

Sample I.D.	Date/Time Sampled (Very Important)	Matrix A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. Other (specify)	WW ONLY: DpH, DOxid., GC Screen (VOA), DB34.2, DB22.2, 624, DB01, DB02, 625, Formaldehyde	ANALYSIS REQUIRED: 8260 TCL, 8021, 8021 - "8015" List, 8021 "8020" List, 8270 DPH/EPH DB01, 8082-PCBs Only, 8081 - Pest Only, TPH-GC (Mod. 8100), TPH-GC-cRNG, EPH (MA DEP), VPH (MA DEP), TCLP (Spec. Below), Filtering (if Required), Metals DPH-13 DB-8, Metals (List Below) TAL	Total # of Cont.	Note #
DAIGLER BPM-5	9-28-04 1200	S		X X X	2	1,2
PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*						
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)*				G G G		

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
BAK	9-28-04 1630	UPS
UPS		Julie Jalick 9/29/04 1030

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

1) TCL VOLATILES, TCL SEMI-VOLATILES, TAL METALS REPORT TO LOWEST DETECTION LIMITS FOR NEW YORK STATE GUIDELINES

2) PLEASE RETURN COOLER AIR 0409

TURNAROUND TIME: Standard (Rush) 4 Days, Approved by: (10/4/04)

LAB USE: TEMP. OF COOLER 2-8 °C

PROJECT MANAGER: BART KLETKE 716-685-2300 EXT: 3310

DATA REPORT ☑ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

GZA FILE NO: 21.0055814.00 P.O. NO.

PROJECT ALLTIFT LANDFILL/RAMCO STEEL SITE

LOCATION BUFFALO, NY

COLLECTOR(S) ~~JMT~~ TODD SCHARA

SHEET 1 OF 1

9/29/04 1030 AG

GZAP00S

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

GZA GeoEnvironmental Labs
Attn: Ms. Michelle Mirenda
Engineers and Scientists
106 South Street
Hopkinton, MA 01748

Date Received: 09/29/2004
Date Reported: 10/01/2004
P.O. #: 8-27129
Work Order # 0409-14572

DESCRIPTION: GZA FILE #21.0055814.0 TASK 4 SUB-TASK 1, ALLTIFT LANDFILL

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

enc: Chain of Custody

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA GeoEnvironmental Labs
Date Received: 09/29/2004
Work Order #: 0409-14572

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: DAIGLER BPM-5
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 09/28/2004 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<10	10	mg/kg dry	SW-846 9010A	10/01/2004	EC
TOTAL METALS						
POTASSIUM	2600	58	mg/kg dry	SW-846 6010	10/01/2004	JNB
SODIUM	180	170	mg/kg dry	SW-846 6010	10/01/2004	JNB

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

W.O. # _____ (for lab use only)

CHAIN-OF-CUSTODY RECORD

Sample I.D.	Date/Time Sampled (Very Important)	Matrix A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. Other (specify)	WW ONLY	ANALYSIS REQUIRED																						Total # of Cont.	Note #
			Diss. COD	BOD	COD	TSS	Oil & Grease	Phenolics																				
DAIGLER BPM-5	9/28/04 11:00	S																						X		1	1,2
PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*																											
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)*																								G			

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
BAK	9/28/04 1130	
VIA UPS	09/29/04 0945	Kuntu Mango
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

1) CYANIDE, SODIUM & POTASSIUM ONLY

2) PLEASE RETURN COOLER

PROJECT MANAGER: Bart Kletke 716-685-2300 EXT: 3310

TURNAROUND TIME: Standard (Rush) 4 (10-4-04) Days, Approved by: _____ LAB USE: TEMP. OF COOLER _____ °C

DATA REPORT ☑ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State _____

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

0409-14572

GZA FILE NO: 21.0055814.0 TASK 4 SUBTASK 1 P.O. NO. _____

PROJECT ALLTIET LANDFILL / RAMCO STEEL SITE

LOCATION BUFFALO, NY

COLLECTOR(S) TODD SCHARA SHEET 1 OF 1

GZAP003

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470/7471 ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - SOLID

Date Analyzed: 09/30/2004

QC Sample	Method Blank	Lab Control Sample
Units	mg/L	% Recovery
Acceptance Limits	Results	85-115 %
Analyte		
Mercury (Hg)	<0.040 (solid)	98.8

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS
Metals by ICP

QUALITY CONTROL - SOLID

DATE PREPARED: 09/29/2004

QC Sample	Method Blank	Lab Control Sample
Units	mg/kg	% Recovery
Acceptance Limits	Results	80-120 %
Analyte		
Silver (Ag)	<0.500	89.7
Aluminum (Al)	<2.500	112
Arsenic (As)	<1.000	94.5
Boron (B)	NA	NA
Barium (Ba)	<0.500	97.0
Beryllium (Be)	<0.500	95.6
Calcium (Ca)	<2.500	97.2
Cadmium (Cd)	<0.500	97.4
Cobalt (Co)	<1.000	97.1
Chromium (Cr)	<0.500	98.0
Copper (Cu)	<1.500	106
Iron (Fe)	<2.500	151
Magnesium (Mg)	<2.500	101
Manganese (Mn)	<0.500	102
Molybdenum (Mo)	NA	NA
Nickel (Ni)	<1.000	96.8
Lead (Pb)	<1.000	97.0
Antimony (Sb)	<2.500	87.4
Selenium (Se)	<2.500	93.3
Strontium (Sr)	NA	NA
Titanium (Ti)	NA	NA
Thallium (Tl)	<2.500	95.3
Vanadium (V)	<0.500	96.9
Zinc (Zn)	<1.000	100
Zirconium (Zr)	NA	NA

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0409-00153

Sample ID: DAIGLER BPM-5
Sample Date: 9/28/2004

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
Barium	EPA 6010	173	mg/kg	AJY	9/29/04
Beryllium	EPA 6010	0.906	mg/kg	AJY	9/29/04
Calcium	EPA 6010	49200	mg/kg	AJY	9/29/04
Cadmium	EPA 6010	<0.552	mg/kg	AJY	9/29/04
Cobalt	EPA 6010	13.6	mg/kg	AJY	9/29/04
Chromium	EPA 6010	31.7	mg/kg	AJY	9/29/04
Copper	EPA 6010	24.5	mg/kg	AJY	9/29/04
Iron	EPA 6010	33400	mg/kg	AJY	9/29/04
Mercury	EPA 7471A	<0.0337	mg/kg	NH	9/30/04
Magnesium	EPA 6010	17200	mg/kg	AJY	9/29/04
Manganese	EPA 6010	584	mg/kg	AJY	9/29/04
Nickel	EPA 6010	27.9	mg/kg	AJY	9/29/04
Lead	EPA 6010	7.85	mg/kg	AJY	9/29/04
Antimony	EPA 6010	<2.76	mg/kg	AJY	9/29/04
Selenium	EPA 6010	<2.76	mg/kg	AJY	9/29/04
Vanadium	EPA 6010	40.3	mg/kg	AJY	9/29/04
Thallium	EPA 6010	<2.76	mg/kg	AJY	9/29/04
Zinc	EPA 6010	76.4	mg/kg	AJY	9/29/04
PERCENT SOLID		84.3	%	TAJ	9/30/04

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0409-00153

Sample ID: DAIGLER BPM-5
Sample Date: 9/28/2004

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
Acenaphthene	EPA 8270	<330	ug/kg	CMG	10/04/04
Dibenzofuran	EPA 8270	<330	ug/kg	CMG	10/04/04
2,4-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	10/04/04
Diethylphthalate	EPA 8270	<330	ug/kg	CMG	10/04/04
Fluorene	EPA 8270	<330	ug/kg	CMG	10/04/04
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	10/04/04
4-Nitroaniline	EPA 8270	<660	ug/kg	CMG	10/04/04
n-Nitrosodiphenylamine	EPA 8270	<330	ug/kg	CMG	10/04/04
4-Bromophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	10/04/04
Hexachlorobenzene	EPA 8270	<330	ug/kg	CMG	10/04/04
Phenanthrene	EPA 8270	<330	ug/kg	CMG	10/04/04
Anthracene	EPA 8270	<330	ug/kg	CMG	10/04/04
Carbazole	EPA 8270	<330	ug/kg	CMG	10/04/04
di-n-Butylphthalate	EPA 8270	<500	ug/kg	CMG	10/04/04
Fluoranthene	EPA 8270	<330	ug/kg	CMG	10/04/04
Pyrene	EPA 8270	<330	ug/kg	CMG	10/04/04
Butylbenzylphthalate	EPA 8270	<330	ug/kg	CMG	10/04/04
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	10/04/04
3,3'-Dichlorobenzidine	EPA 8270	<660	ug/kg	CMG	10/04/04
Chrysene	EPA 8270	<330	ug/kg	CMG	10/04/04
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	ug/kg	CMG	10/04/04
di-n-Octylphthalate	EPA 8270	<330	ug/kg	CMG	10/04/04
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	10/04/04
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	10/04/04
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	10/04/04
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	10/04/04
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	10/04/04
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	10/04/04
Surrogates:					
***2-Fluorophenol	EPA 8270	59.1	% R	CMG	10/04/04
***Phenol-D6	EPA 8270	68.2	% R	CMG	10/04/04
***Nitrobenzene-D5	EPA 8270	61.7	% R	CMG	10/04/04
***2-Fluorobiphenyl	EPA 8270	54.3	% R	CMG	10/04/04
***2,4,6-Tribromophenol	EPA 8270	50.5	% R	CMG	10/04/04
***P-Terphenyl-D14	EPA 8270	52.9	% R	CMG	10/04/04
Extraction	EPA 3545	1.0	DF	RJD	9/30/04
METALS-TARGET ANALYTE LIST				AJY	9/29/04
Silver	EPA 6010	<0.552	mg/kg	AJY	9/29/04
Aluminum	EPA 6010	27000	mg/kg	AJY	9/29/04
Arsenic	EPA 6010	5.28	mg/kg	AJY	9/29/04

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0409-00153

Sample ID: DAIGLER BPM-5
Sample Date: 9/28/2004

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	10/04/04
Phenol	EPA 8270	<330	ug/kg	CMG	10/04/04
2-Chlorophenol	EPA 8270	<330	ug/kg	CMG	10/04/04
2-Methylphenol	EPA 8270	<330	ug/kg	CMG	10/04/04
3&4-Methylphenol	EPA 8270	<330	ug/kg	CMG	10/04/04
2-Nitrophenol	EPA 8270	<330	ug/kg	CMG	10/04/04
2,4-Dimethylphenol	EPA 8270	<330	ug/kg	CMG	10/04/04
Benzoic Acid	EPA 8270	<3300	ug/kg	CMG	10/04/04
2,4-Dichlorophenol	EPA 8270	<330	ug/kg	CMG	10/04/04
4-Chloro-3-Methylphenol	EPA 8270	<660	ug/kg	CMG	10/04/04
2,4,6-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	10/04/04
2,4,5-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	10/04/04
2,4-Dinitrophenol	EPA 8270	<3300	ug/kg	CMG	10/04/04
4-Nitrophenol	EPA 8270	<1700	ug/kg	CMG	10/04/04
4,6-Dinitro-2-Methylphenol	EPA 8270	<1700	ug/kg	CMG	10/04/04
Pentachlorophenol	EPA 8270	<1700	ug/kg	CMG	10/04/04
n-Nitrosodimethylamine	EPA 8270	<330	ug/kg	CMG	10/04/04
bis(2-Chloroethyl)Ether	EPA 8270	<330	ug/kg	CMG	10/04/04
1,3-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	10/04/04
1,4-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	10/04/04
Benzyl Alcohol	EPA 8270	<660	ug/kg	CMG	10/04/04
1,2-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	10/04/04
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	ug/kg	CMG	10/04/04
n-Nitrosodi-n-Propylamine	EPA 8270	<330	ug/kg	CMG	10/04/04
Hexachloroethane	EPA 8270	<330	ug/kg	CMG	10/04/04
Nitrobenzene	EPA 8270	<330	ug/kg	CMG	10/04/04
Isophorone	EPA 8270	<330	ug/kg	CMG	10/04/04
bis(2-Chloroethoxy)Methane	EPA 8270	<330	ug/kg	CMG	10/04/04
1,2,4-Trichlorobenzene	EPA 8270	<330	ug/kg	CMG	10/04/04
Naphthalene	EPA 8270	<330	ug/kg	CMG	10/04/04
4-Chloroaniline	EPA 8270	<660	ug/kg	CMG	10/04/04
Hexachlorobutadiene	EPA 8270	<330	ug/kg	CMG	10/04/04
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	10/04/04
Hexachlorocyclopentadiene	EPA 8270	<1700	ug/kg	CMG	10/04/04
2-Chloronaphthalene	EPA 8270	<330	ug/kg	CMG	10/04/04
2-Nitroaniline	EPA 8270	<660	ug/kg	CMG	10/04/04
Dimethylphthalate	EPA 8270	<330	ug/kg	CMG	10/04/04
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	10/04/04
2,6-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	10/04/04
3-Nitroaniline	EPA 8270	<660	ug/kg	CMG	10/04/04

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0409-00153

Sample ID: DAIGLER BPM-5
Sample Date: 9/28/2004

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,1,2-Trichloroethane	EPA 8260	<75	ug/kg	MQS	9/29/04
2-Hexanone	EPA 8260	<150	ug/kg	MQS	9/29/04
1,3-Dichloropropane	EPA 8260	<75	ug/kg	MQS	9/29/04
Tetrachloroethene	EPA 8260	<75	ug/kg	MQS	9/29/04
Dibromochloromethane	EPA 8260	<75	ug/kg	MQS	9/29/04
1,2-Dibromoethane (EDB)	EPA 8260	<150	ug/kg	MQS	9/29/04
Chlorobenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,1,1,2-Tetrachloroethane	EPA 8260	<75	ug/kg	MQS	9/29/04
Ethylbenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
m&p-Xylene	EPA 8260	<75	ug/kg	MQS	9/29/04
o-Xylene	EPA 8260	<75	ug/kg	MQS	9/29/04
Styrene	EPA 8260	<75	ug/kg	MQS	9/29/04
Bromoform	EPA 8260	<150	ug/kg	MQS	9/29/04
Isopropylbenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,1,2,2-Tetrachloroethane	EPA 8260	<75	ug/kg	MQS	9/29/04
1,2,3-Trichloropropane	EPA 8260	<75	ug/kg	MQS	9/29/04
Bromobenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
n-Propylbenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
2-Chlorotoluene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,3,5-Trimethylbenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
4-Chlorotoluene	EPA 8260	<75	ug/kg	MQS	9/29/04
tert-Butylbenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,2,4-Trimethylbenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
sec-Butylbenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
p-Isopropyltoluene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,3-Dichlorobenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,4-Dichlorobenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
n-Butylbenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,2-Dichlorobenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,2-Dibromo-3-Chloropropane	EPA 8260	<380	ug/kg	MQS	9/29/04
1,2,4-Trichlorobenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
Hexachlorobutadiene	EPA 8260	<75	ug/kg	MQS	9/29/04
Naphthalene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,2,3-Trichlorobenzene	EPA 8260	<75	ug/kg	MQS	9/29/04
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	94.0	% R	MQS	9/29/04
***Toluene-D8	EPA 8260	99.4	% R	MQS	9/29/04
***4-Bromofluorobenzene	EPA 8260	98.7	% R	MQS	9/29/04
Preparation	EPA 5035	15	DF	MQS	9/29/04

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 9/29/04
Date Reported: 10/04/04
Work Order No.: 0409-00153

Sample ID: DAIGLER BPM-5
Sample Date: 9/28/2004

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	9/29/04
Dichlorodifluoromethane	EPA 8260	<150	ug/kg	MQS	9/29/04
Chloromethane	EPA 8260	<150	ug/kg	MQS	9/29/04
Vinyl Chloride	EPA 8260	<75	ug/kg	MQS	9/29/04
Bromomethane	EPA 8260	<150	ug/kg	MQS	9/29/04
Chloroethane	EPA 8260	<75	ug/kg	MQS	9/29/04
Trichlorofluoromethane	EPA 8260	<150	ug/kg	MQS	9/29/04
Diethylether	EPA 8260	<75	ug/kg	MQS	9/29/04
Acetone	EPA 8260	<750	ug/kg	MQS	9/29/04
1,1-Dichloroethene	EPA 8260	<75	ug/kg	MQS	9/29/04
Dichloromethane	EPA 8260	<75	ug/kg	MQS	9/29/04
Methyl-Tert-Butyl-Ether	EPA 8260	<75	ug/kg	MQS	9/29/04
trans-1,2-Dichloroethene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,1-Dichloroethane	EPA 8260	<75	ug/kg	MQS	9/29/04
2-Butanone	EPA 8260	<750	ug/kg	MQS	9/29/04
2,2-Dichloropropane	EPA 8260	<75	ug/kg	MQS	9/29/04
cis-1,2-Dichloroethene	EPA 8260	<75	ug/kg	MQS	9/29/04
Chloroform	EPA 8260	<75	ug/kg	MQS	9/29/04
Bromochloromethane	EPA 8260	<75	ug/kg	MQS	9/29/04
Tetrahydrofuran	EPA 8260	<150	ug/kg	MQS	9/29/04
1,1,1-Trichloroethane	EPA 8260	<75	ug/kg	MQS	9/29/04
1,1-Dichloropropene	EPA 8260	<75	ug/kg	MQS	9/29/04
Carbon Tetrachloride	EPA 8260	<75	ug/kg	MQS	9/29/04
1,2-Dichloroethane	EPA 8260	<75	ug/kg	MQS	9/29/04
Benzene	EPA 8260	<75	ug/kg	MQS	9/29/04
Trichloroethene	EPA 8260	<75	ug/kg	MQS	9/29/04
1,2-Dichloropropane	EPA 8260	<75	ug/kg	MQS	9/29/04
Bromodichloromethane	EPA 8260	<75	ug/kg	MQS	9/29/04
Dibromomethane	EPA 8260	<75	ug/kg	MQS	9/29/04
4-Methyl-2-Pentanone	EPA 8260	<150	ug/kg	MQS	9/29/04
cis-1,3-Dichloropropene	EPA 8260	<75	ug/kg	MQS	9/29/04
Toluene	EPA 8260	<75	ug/kg	MQS	9/29/04

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 9/29/04
Date Reported: 10/04/04
Work Order No.: 0409-00153

Data Authorized By: _____

% R = % Recovery
DF = Dilution Factor
DO = Diluted Out

Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Laboratory Identification Numbers:

MA: MA092 NH: 2028
CT: PH0579 RI: 236
NC: 615 NY (NELAC): 11063

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per each method and are reported at the end of the analytical report if assigned on the chain of custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 9/29/04
Date Reported: 10/04/04
Work Order No.: 0409-00153

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 09/29/04 via _x_UPS, __EC, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 2.8 degrees C. The samples were received intact for all requested analyses. Analyses for Sodium, Potassium and Cyanide were subcontracted to RIAL.

The samples were appropriately preserved in accordance with the method they reference. THe VOC samples were preserved in methanol upon receipt at the laboratory.

2. EPA Method 6010B/7471 - Metals

Attach QC 6010B 09/29/04 - Solid
Attach QC Mercury 09/30/04 - Solid

3. EPA Method 8260 - VOCs

Attach QC 8260 09/29/04 - Solid

4. EPA Method 8270 - SVOCs

Attach QC 8270 09/30/04 - Solid

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA: MA092 NH: 2028 RI: 236
CT: PH0579 OK: 9928 NC: 615
NY (NELAC): 11063

ANALYTICAL DATA REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225
(716)685-2300
Bart Klettke

Project No.: 21.0055814.00
Work Order No.: 0409-00153
Date Received: 9/29/04
Date Reported: 10/04/04

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
9/28/2004	Solid	0409-00153 001	DAIGLER BPM-5

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GEOTECHNICAL LABORATORY TESTING DATA SUMMARY

PROJECT NAME: Alltift Landfill
LOCATION: Buffalo, New York
PROJECT NO. 55814.00

CLIENT: Tug Hill Construction, Inc.

MATERIAL SOURCE: UNCLASSIFIED FILL (LAFARGE-FRONTIER)

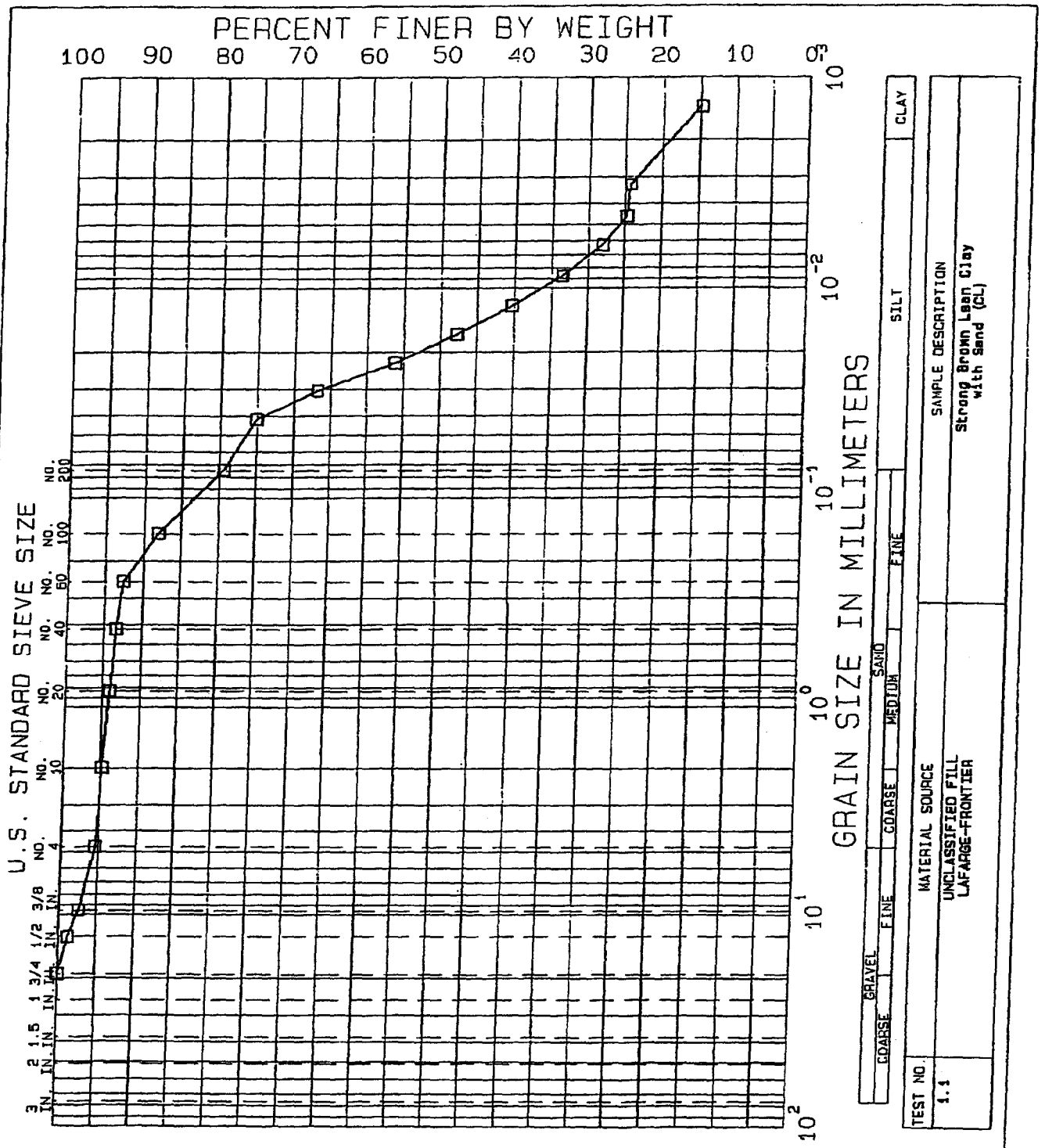
DATE REPORTED: MARCH 8, 2004

WORK ORDER NO. 4386

IDENTIFICATION			WATER CONTENT	ATTERBERG LIMITS			ASH and ORGANIC CONTENT		GRAIN SIZE ANALYSIS		pH OF SOIL		PERMEABILITY TEST					LABORATORY LOG AND SOIL DESCRIPTION
SAMPLE TYPE	SAMPLE NUMBER	DEPTH ft.	%	LL %	PL %	PI	ORGANIC %	ASH %	SIEVE -200 %	HYD. -2μ %	pH in H_2O	pH in 0.01M $CaCl_2$	PERME-ABILITY cm/sec.	TYPE OF TEST	$\bar{\sigma}_c$ psf	DRY UNIT WT pcf	WATER CONTENT %	
BULK BAG	LAFARG E-1		16.4	23	13	10	1.2	98.8	79	19	7.8	7.8						Strong Brown Lean Clay with Sand (CL)

GZA GeoEnvironmental of New York
Engineers and Scientists

Mar 08 04 03:11p GZA GeoEnvironme 716



Test Procedure Information:

Sample separated on a No. 4 sieve. Sample dispersed with a mechanical stirring device, Type A. for 1 minute.

ALLTIFT LANDFILL
BUFFALO, NEW YORK
PARTICLE-SIZE ANALYSIS

EXPLOR. NO.	BULK BAG	WORK ORDER NO.	4386
SAMPLE NO.	LAFARGE-1	DATE	3/05/04
DEPTH			
TECH.	DEW		
REVIEWER	DEW	FILE	55814.00

Analytical Testing Results Summary for Unclassified Fill Sample
Taken From LaFarge Frontier Source

Alltift Landfill Site/Ramco Steel Site
Buffalo, New York

Parameter	Recommended Soil Cleanup Objective ppm	Eastern USA Background ppm	LAFARGE-1 ppm
VOC - EPA Method 8260 (ppm)			
No Compounds Detected		N/A	N/D
SVOC - EPA Method 8270 (ppm)			
No Compounds Detected		N/A	N/D
TAL Metals including Cyanide and Mercury - EPA Methods 6010 and 7174 A)			
Aluminum	SB	33,000	9,310
Arsenic	7.5 or SB	3-12	3.2
Barium	300 or SB	15-600	67.6
Calcium	SB	130-35,000	52,100
Chromium	10 or SB	1.5-40	13.9
Cobalt	30 or SB	2.5-60	6.61
Copper	25 or SB	1-50	17.7
Iron	2000 or SB	2000-550,000	16,700
Lead	SB	See Note 5	5.4
Magnesium	SB	100-5000	12,000
Manganese	SB	50-5000	579
Nickel	13 or SB	0.5-25	13.4
Potassium	SB	8500-43,000	1200
Sodium	SB	6000-8,000	170
Vanadium	150 or SB	1-300	18.9
Zinc	20 or SB	9-50	70.7

Notes:

1. Only compounds detected in one or more samples are presented on this table. Refer to original data sheets for list of all compounds included in analysis.
2. Analytical testing completed by GZA GeoEnvironmental Laboratories, Inc.
3. Recommended soil cleanup objectives are based on the Division Technical and Administrative Guidance Memorandum (TAGM) 4046 on Determination of Soil Cleanup Objectives and Cleanup Levels in its final form.
4. ND = not detected, NA = not available
5. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.
6. mg/kg = ppm

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA: MA092 NH: 2028 RI: 236
CT: PH0579 OK: 9928 NC: 615
NY (NELAC): 11063

ANALYTICAL DATA REPORT

GZA GeoEnvironmental of NY
364 Nagel Drive
Buffalo, NY 14225
(716)685-2300
Bart Klettke

Project No.:	21.0055814.00
Work Order No.:	0403-00013
Date Received:	3/03/04
Date Reported:	3/08/04

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
3/02/2004	Solid	0403-00013 001	LAFARGE - 1

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GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

GZA GeoEnvironmental of NY
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 3/03/04
Date Reported: 3/08/04
Work Order No.: 0403-00013

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 03/03/04 via __GZA courier, _X_UPS, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_X_cooler air, was 4.0 degrees C. The samples were received intact for all requested analyses. Analyses for Cyanide, Sodium and Potassium were subcontracted to RIAL.

The VOC sample was preserved in methanol upon receipt at the laboratory.

2. EPA Method 6010/7471 - Metals

Attach QC 6010 03/03/04 - Solid
Attach QC Mercury 03/04/04 - Solid

3. EPA Method 8260 - VOCs

The reporting limits have been decreased to reflect the actual dilution factor created when extracting the sample in methanol prior to analysis. The laboratory generally employs a default limit setting of 100uk/kg for soil samples but is calibrated to meet lower limits for the analysis of drinking water (EPA Method 524.2). Any results reported between the amended limit (60ug/Kg) and the default limit (100ug/kg) would be flagged as estimated values (J).

Attach QC 8260 03/04/04 - Solid

4. EPA Method 8270 - SVOCs

Attach QC 8270 03/03/04 - Solid

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

GZA GeoEnvironmental of NY
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 3/03/04
Date Reported: 3/08/04
Work Order No.: 0403-00013

Data Authorized By: _____

% R = % Recovery
DF = Dilution Factor
DO = Diluted Out

Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Laboratory Identification Numbers:

MA: MA092 NH: 2028
CT: PH0579 RI: 236
NC: 615 NY (NELAC): 11063

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

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Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per each method and are reported at the end of the analytical report if assigned on the chain of custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

GZA GeoEnvironmental of NY
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 3/03/04
Date Reported: 3/08/04
Work Order No.: 0403-00013

Sample ID: LAFARGE - 1
Sample Date: 3/02/2004

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	3/04/04
Dichlorodifluoromethane	EPA 8260	<200	ug/kg	MQS	3/04/04
Chloromethane	EPA 8260	<200	ug/kg	MQS	3/04/04
Vinyl Chloride	EPA 8260	<100	ug/kg	MQS	3/04/04
Bromomethane	EPA 8260	<200	ug/kg	MQS	3/04/04
Chloroethane	EPA 8260	<100	ug/kg	MQS	3/04/04
Trichlorofluoromethane	EPA 8260	<200	ug/kg	MQS	3/04/04
Diethylether	EPA 8260	<100	ug/kg	MQS	3/04/04
Acetone	EPA 8260	<1000	ug/kg	MQS	3/04/04
1,1-Dichloroethene	EPA 8260	<100	ug/kg	MQS	3/04/04
Dichloromethane	EPA 8260	<100	ug/kg	MQS	3/04/04
Methyl-Tert-Butyl-Ether	EPA 8260	<100	ug/kg	MQS	3/04/04
trans-1,2-Dichloroethene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,1-Dichloroethane	EPA 8260	<100	ug/kg	MQS	3/04/04
2-Butanone	EPA 8260	<1000	ug/kg	MQS	3/04/04
2,2-Dichloropropane	EPA 8260	<100	ug/kg	MQS	3/04/04
cis-1,2-Dichloroethene	EPA 8260	<100	ug/kg	MQS	3/04/04
Chloroform	EPA 8260	<100	ug/kg	MQS	3/04/04
Bromochloromethane	EPA 8260	<100	ug/kg	MQS	3/04/04
Tetrahydrofuran	EPA 8260	<200	ug/kg	MQS	3/04/04
1,1,1-Trichloroethane	EPA 8260	<100	ug/kg	MQS	3/04/04
1,1-Dichloropropene	EPA 8260	<100	ug/kg	MQS	3/04/04
Carbon Tetrachloride	EPA 8260	<100	ug/kg	MQS	3/04/04
1,2-Dichloroethane	EPA 8260	<100	ug/kg	MQS	3/04/04
Benzene	EPA 8260	<100	ug/kg	MQS	3/04/04
Trichloroethene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,2-Dichloropropane	EPA 8260	<100	ug/kg	MQS	3/04/04
Bromodichloromethane	EPA 8260	<100	ug/kg	MQS	3/04/04
Dibromomethane	EPA 8260	<100	ug/kg	MQS	3/04/04
4-Methyl-2-Pentanone	EPA 8260	<200	ug/kg	MQS	3/04/04
cis-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MQS	3/04/04
Toluene	EPA 8260	<100	ug/kg	MQS	3/04/04

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0403-00013

Sample ID: LAFARGE - 1
Sample Date: 3/02/2004

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,1,2-Trichloroethane	EPA 8260	<100	ug/kg	MQS	3/04/04
2-Hexanone	EPA 8260	<200	ug/kg	MQS	3/04/04
1,3-Dichloropropane	EPA 8260	<100	ug/kg	MQS	3/04/04
Tetrachloroethene	EPA 8260	<100	ug/kg	MQS	3/04/04
Dibromochloromethane	EPA 8260	<100	ug/kg	MQS	3/04/04
1,2-Dibromoethane (EDB)	EPA 8260	<200	ug/kg	MQS	3/04/04
Chlorobenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,1,1,2-Tetrachloroethane	EPA 8260	<100	ug/kg	MQS	3/04/04
Ethylbenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
m&p-Xylene	EPA 8260	<100	ug/kg	MQS	3/04/04
o-Xylene	EPA 8260	<100	ug/kg	MQS	3/04/04
Styrene	EPA 8260	<100	ug/kg	MQS	3/04/04
Bromoform	EPA 8260	<200	ug/kg	MQS	3/04/04
Isopropylbenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,1,2,2-Tetrachloroethane	EPA 8260	<100	ug/kg	MQS	3/04/04
1,2,3-Trichloropropane	EPA 8260	<100	ug/kg	MQS	3/04/04
Bromobenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
n-Propylbenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
2-Chlorotoluene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,3,5-Trimethylbenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
4-Chlorotoluene	EPA 8260	<100	ug/kg	MQS	3/04/04
tert-Butylbenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,2,4-Trimethylbenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
sec-Butylbenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
p-Isopropyltoluene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,3-Dichlorobenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,4-Dichlorobenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
n-Butylbenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,2-Dichlorobenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,2-Dibromo-3-Chloropropane	EPA 8260	<500	ug/kg	MQS	3/04/04
1,2,4-Trichlorobenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
Hexachlorobutadiene	EPA 8260	<100	ug/kg	MQS	3/04/04
Naphthalene	EPA 8260	<100	ug/kg	MQS	3/04/04
1,2,3-Trichlorobenzene	EPA 8260	<100	ug/kg	MQS	3/04/04
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	97.3	% R	MQS	3/04/04
***Toluene-D8	EPA 8260	97.2	% R	MQS	3/04/04
***4-Bromofluorobenzene	EPA 8260	83.9	% R	MQS	3/04/04
Preparation		20	DF	MQS	3/04/04

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0403-00013

Sample ID: LAFARGE - 1
Sample Date: 3/02/2004

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	3/05/04
Phenol	EPA 8270	<330	ug/kg	CMG	3/05/04
2-Chlorophenol	EPA 8270	<330	ug/kg	CMG	3/05/04
2-Methylphenol	EPA 8270	<330	ug/kg	CMG	3/05/04
3&4-Methylphenol	EPA 8270	<330	ug/kg	CMG	3/05/04
2-Nitrophenol	EPA 8270	<330	ug/kg	CMG	3/05/04
2,4-Dimethylphenol	EPA 8270	<330	ug/kg	CMG	3/05/04
Benzoic Acid	EPA 8270	<3300	ug/kg	CMG	3/05/04
2,4-Dichlorophenol	EPA 8270	<330	ug/kg	CMG	3/05/04
4-Chloro-3-Methylphenol	EPA 8270	<660	ug/kg	CMG	3/05/04
2,4,6-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	3/05/04
2,4,5-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	3/05/04
2,4-Dinitrophenol	EPA 8270	<3300	ug/kg	CMG	3/05/04
4-Nitrophenol	EPA 8270	<1700	ug/kg	CMG	3/05/04
4,6-Dinitro-2-Methylphenol	EPA 8270	<1700	ug/kg	CMG	3/05/04
Pentachlorophenol	EPA 8270	<1700	ug/kg	CMG	3/05/04
n-Nitrosodimethylamine	EPA 8270	<330	ug/kg	CMG	3/05/04
bis(2-Chloroethyl)Ether	EPA 8270	<330	ug/kg	CMG	3/05/04
1,3-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	3/05/04
1,4-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	3/05/04
Benzyl Alcohol	EPA 8270	<660	ug/kg	CMG	3/05/04
1,2-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	3/05/04
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	ug/kg	CMG	3/05/04
n-Nitrosodi-n-Propylamine	EPA 8270	<330	ug/kg	CMG	3/05/04
Hexachloroethane	EPA 8270	<330	ug/kg	CMG	3/05/04
Nitrobenzene	EPA 8270	<330	ug/kg	CMG	3/05/04
Isophorone	EPA 8270	<330	ug/kg	CMG	3/05/04
bis(2-Chloroethoxy)Methane	EPA 8270	<330	ug/kg	CMG	3/05/04
1,2,4-Trichlorobenzene	EPA 8270	<330	ug/kg	CMG	3/05/04
Naphthalene	EPA 8270	<330	ug/kg	CMG	3/05/04
4-Chloroaniline	EPA 8270	<660	ug/kg	CMG	3/05/04
Hexachlorobutadiene	EPA 8270	<330	ug/kg	CMG	3/05/04
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	3/05/04
Hexachlorocyclopentadiene	EPA 8270	<1700	ug/kg	CMG	3/05/04
2-Chloronaphthalene	EPA 8270	<330	ug/kg	CMG	3/05/04
2-Nitroaniline	EPA 8270	<660	ug/kg	CMG	3/05/04
Dimethylphthalate	EPA 8270	<330	ug/kg	CMG	3/05/04
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	3/05/04
2,6-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	3/05/04
3-Nitroaniline	EPA 8270	<660	ug/kg	CMG	3/05/04

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0403-00013

Sample ID: LAFARGE - 1
Sample Date: 3/02/2004

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
Acenaphthene	EPA 8270	<330	ug/kg	CMG	3/05/04
Dibenzofuran	EPA 8270	<330	ug/kg	CMG	3/05/04
2,4-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	3/05/04
Diethylphthalate	EPA 8270	<330	ug/kg	CMG	3/05/04
Fluorene	EPA 8270	<330	ug/kg	CMG	3/05/04
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	3/05/04
4-Nitroaniline	EPA 8270	<660	ug/kg	CMG	3/05/04
n-Nitrosodiphenylamine	EPA 8270	<330	ug/kg	CMG	3/05/04
4-Bromophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	3/05/04
Hexachlorobenzene	EPA 8270	<330	ug/kg	CMG	3/05/04
Phenanthrene	EPA 8270	<330	ug/kg	CMG	3/05/04
Anthracene	EPA 8270	<330	ug/kg	CMG	3/05/04
Carbazole	EPA 8270	<330	ug/kg	CMG	3/05/04
di-n-Butylphthalate	EPA 8270	<500	ug/kg	CMG	3/05/04
Fluoranthene	EPA 8270	<330	ug/kg	CMG	3/05/04
Pyrene	EPA 8270	<330	ug/kg	CMG	3/05/04
Butylbenzylphthalate	EPA 8270	<330	ug/kg	CMG	3/05/04
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	3/05/04
3,3'-Dichlorobenzidine	EPA 8270	<660	ug/kg	CMG	3/05/04
Chrysene	EPA 8270	<330	ug/kg	CMG	3/05/04
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	ug/kg	CMG	3/05/04
di-n-Octylphthalate	EPA 8270	<330	ug/kg	CMG	3/05/04
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	3/05/04
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	3/05/04
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	3/05/04
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	3/05/04
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	3/05/04
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	3/05/04
Surrogates:					
***2-Fluorophenol	EPA 8270	62.5	% R	CMG	3/05/04
***Phenol-D6	EPA 8270	65.2	% R	CMG	3/05/04
***Nitrobenzene-D5	EPA 8270	55.0	% R	CMG	3/05/04
***2-Fluorobiphenyl	EPA 8270	61.8	% R	CMG	3/05/04
***2,4,6-Tribromophenol	EPA 8270	77.1	% R	CMG	3/05/04
***P-Terphenyl-D14	EPA 8270	80.5	% R	CMG	3/05/04
Extraction		1.0	DF	ARL	3/03/04
METALS-TARGET ANALYTE LIST				AJY	3/03/04
Silver	EPA 6010	<0.486	mg/Kg	AJY	3/03/04
Aluminum	EPA 6010	9310	mg/Kg	AJY	3/03/04
Arsenic	EPA 6010	3.21	mg/Kg	AJY	3/03/04

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0403-00013

Sample ID: LAFARGE - 1
Sample Date: 3/02/2004

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
Barium	EPA 6010	67.6	mg/Kg	AJY	3/03/04
Beryllium	EPA 6010	<0.486	mg/Kg	AJY	3/03/04
Calcium	EPA 6010	52100	mg/Kg	AJY	3/03/04
Cadmium	EPA 6010	<0.486	mg/Kg	AJY	3/03/04
Cobalt	EPA 6010	6.61	mg/Kg	AJY	3/03/04
Chromium	EPA 6010	13.9	mg/Kg	AJY	3/03/04
Copper	EPA 6010	17.7	mg/Kg	AJY	3/03/04
Iron	EPA 6010	16700	mg/Kg	AJY	3/03/04
Mercury	EPA 7471A	<0.0301	mg/Kg	NH	3/04/04
Magnesium	EPA 6010	12000	mg/Kg	AJY	3/03/04
Manganese	EPA 6010	579	mg/Kg	AJY	3/03/04
Nickel	EPA 6010	13.4	mg/Kg	AJY	3/03/04
Lead	EPA 6010	5.42	mg/Kg	AJY	3/03/04
Antimony	EPA 6010	<2.43	mg/Kg	AJY	3/03/04
Selenium	EPA 6010	<2.43	mg/Kg	AJY	3/03/04
Vanadium	EPA 6010	18.9	mg/Kg	AJY	3/03/04
Thallium	EPA 6010	<2.43	mg/Kg	AJY	3/03/04
Zinc	EPA 6010	70.7	mg/Kg	AJY	3/03/04
PERCENT SOLID		84.7	%	MJD	3/05/04

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS
Metals by ICP

QUALITY CONTROL - SOLID

DATE PREPARED: 03/03/2004

QC Sample	Method Blank	Lab Control Sample
Units	mg/kg	% Recovery
Acceptance Limits	Results	80-120 %
Analyte		
Silver (Ag)	<0.500	88.3
Aluminum (Al)	<2.500	103
Arsenic (As)	<1.000	93.4
Boron (B)	NA	NA
Barium (Ba)	<0.500	96.7
Beryllium (Be)	<0.500	95.5
Calcium (Ca)	<2.500	107
Cadmium (Cd)	<0.500	95.1
Cobalt (Co)	<1.000	97.0
Chromium (Cr)	<0.500	98.2
Copper (Cu)	<1.500	109
Iron (Fe)	<2.500	101
Magnesium (Mg)	<2.500	96.7
Manganese (Mn)	<0.500	101
Molybdenum (Mo)	NA	NA
Nickel (Ni)	<1.000	96.1
Lead (Pb)	<1.000	94.9
Antimony (Sb)	<2.500	96.1
Selenium (Se)	<2.500	89.9
Strontium (Sr)	NA	NA
Titanium (Ti)	NA	NA
Thallium (Tl)	<2.500	91.7
Vanadium (V)	<0.500	98.1
Zinc (Zn)	<1.000	100
Zirconium (Zr)	NA	NA

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470/7471 ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - SOLID

Date Analyzed: 03/04/2004

QC Sample	Method Blank	Lab Control Sample
Units	mg/L	% Recovery
Acceptance Limits	Results	85-115 %
Analyte		
Mercury (Hg)	<0.040 (solid)	89.1

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GeoEnvironmental, Inc.
168 South Street
Hopkinton, MA 01748

EPA Method 8260 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	3/4/04	
Volatile Organics	Conc. ug/L	Acceptance Limit
dichlorodifluoromethane	< 250	< 250
chloromethane	< 250	< 250
vinyl chloride	< 250	< 250
bromomethane	< 250	< 250
chloroethane	< 250	< 250
trichlorofluoromethane	< 250	< 250
diethyl ether	< 500	< 500
acetone	< 1300	< 1300
1,1-dichloroethene	< 130	< 130
FREON-113	< 250	< 250
carbon disulfide	< 250	< 250
dichloromethane	< 250	< 250
tert-butyl alcohol (TBA)	< 1300	< 1300
methyl-tert-butyl-ether	< 250	< 250
trans-1,2-dichloroethene	< 130	< 130
1,1-dichloroethane	< 130	< 130
di-isopropyl ether (DIPE)	< 250	< 250
ethyl tert-butyl ether (ETBE)	< 250	< 250
2-butanone	< 1300	< 1300
2,2-dichloropropane	< 130	< 130
cis-1,2-dichloroethene	< 130	< 130
chloroform	< 130	< 130
bromochloromethane	< 130	< 130
tetrahydrofuran	< 750	< 750
1,1,1-trichloroethane	< 130	< 130
1,1-dichloropropene	< 130	< 130
carbon tetrachloride	< 130	< 130
1,2-dichloroethane	< 130	< 130
benzene	< 130	< 130
tert-amyl methyl ether (TAME)	< 250	< 250
trichloroethene	< 130	< 130
1,2-dichloropropane	< 130	< 130
bromodichloromethane	< 130	< 130
1,4-Dioxane	< 2500	< 2500
dibromomethane	< 130	< 130
4-methyl-2-pentanone	< 250	< 250
cis-1,3-dichloropropene	< 130	< 130
toluene	< 130	< 130
trans-1,3-dichloropropene	< 130	< 130
1,1,2-trichloroethane	< 250	< 250
2-hexanone	< 250	< 250
1,3-dichloropropane	< 130	< 130
tetrachloroethene	< 130	< 130
dibromochloromethane	< 130	< 130
1,2-dibromoethane (EDB)	< 130	< 130
chlorobenzene	< 130	< 130
1,1,1,2-tetrachloroethane	< 130	< 130
ethylbenzene	< 130	< 130
1,1,2,2-tetrachloroethane	< 130	< 130
m&p-xylene	< 130	< 130
o-xylene	< 130	< 130
styrene	< 130	< 130
bromoform	< 130	< 130
isopropylbenzene	< 130	< 130
1,2,3-trichloropropane	< 130	< 130
bromobenzene	< 130	< 130
n-propylbenzene	< 130	< 130
2-chlorotoluene	< 130	< 130
1,3,5-trimethylbenzene	< 130	< 130
4-chlorotoluene	< 130	< 130
tert-butyl-benzene	< 130	< 130
1,2,4-trimethylbenzene	< 130	< 130
sec-butyl-benzene	< 130	< 130
p-isopropyltoluene	< 750	< 750
1,3-dichlorobenzene	< 130	< 130
1,4-dichlorobenzene	< 130	< 130
n-butylbenzene	< 130	< 130
1,2-dichlorobenzene	< 130	< 130
1,2-dibromo-3-chloropropane	< 130	< 130
1,2,4-trichlorobenzene	< 130	< 130
hexachlorobutadiene	< 130	< 130
naphthalene	< 130	< 130
1,2,3-trichlorobenzene	< 130	< 130

Laboratory Control Sample

Date Analyzed:	3/4/04		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	97.4	70-130	ok
chloromethane	95.0	70-130	ok
vinyl chloride	93.3	70-130	ok
bromomethane	93.6	70-130	ok
chloroethane	91.3	70-130	ok
trichlorofluoromethane	97.6	70-130	ok
diethyl ether	101	70-130	ok
acetone	107	70-130	ok
1,1-dichloroethene	95.9	70-130	ok
FREON-113	89.9	70-130	ok
carbon disulfide	92.1	70-130	ok
dichloromethane	97.6	70-130	ok
tert-butyl alcohol (TBA)	111	70-130	ok
methyl-tert-butyl-ether	111	70-130	ok
trans-1,2-dichloroethene	99.2	70-130	ok
1,1-dichloroethane	101	70-130	ok
di-isopropyl ether (DIPE)	111	70-130	ok
ethyl tert-butyl ether (ETBE)	113	70-130	ok
2-butanone	105	70-130	ok
2,2-dichloropropane	98.9	70-130	ok
cis-1,2-dichloroethene	97.1	70-130	ok
chloroform	99.1	70-130	ok
bromochloromethane	94.9	70-130	ok
tetrahydrofuran	113	70-130	ok
1,1,1-trichloroethane	96.1	70-130	ok
1,1-dichloropropene	99.6	70-130	ok
carbon tetrachloride	95.0	70-130	ok
1,2-dichloroethane	99.8	70-130	ok
benzene	101	70-130	ok
tert-amyl methyl ether (TAME)	114	70-130	ok
trichloroethene	98.3	70-130	ok
1,2-dichloropropane	100	70-130	ok
bromodichloromethane	102	70-130	ok
1,4-Dioxane	114	70-130	ok
dibromomethane	93.4	70-130	ok
4-methyl-2-pentanone	109	70-130	ok
cis-1,3-dichloropropene	107	70-130	ok
toluene	104	70-130	ok
trans-1,3-dichloropropene	101	70-130	ok
1,1,2-trichloroethane	102	70-130	ok
2-hexanone	112	70-130	ok
1,3-dichloropropane	103	70-130	ok
tetrachloroethene	95.5	70-130	ok
dibromochloromethane	93.0	70-130	ok
1,2-dibromoethane (EDB)	95.8	70-130	ok
chlorobenzene	102	70-130	ok
1,1,1,2-tetrachloroethane	95.9	70-130	ok
ethylbenzene	103	70-130	ok
1,1,2,2-tetrachloroethane	101	70-130	ok
m&p-xylene	101	70-130	ok
o-xylene	107	70-130	ok
styrene	105	70-130	ok
bromoform	94.2	70-130	ok
isopropylbenzene	107	70-130	ok
1,2,3-trichloropropane	99.6	70-130	ok
bromobenzene	96.2	70-130	ok
n-propylbenzene	107	70-130	ok
2-chlorotoluene	104	70-130	ok
1,3,5-trimethylbenzene	108	70-130	ok
4-chlorotoluene	103	70-130	ok
tert-butyl-benzene	105	70-130	ok
1,2,4-trimethylbenzene	105	70-130	ok
sec-butyl-benzene	109	70-130	ok
p-isopropyltoluene	106	70-130	ok
1,3-dichlorobenzene	99.4	70-130	ok
1,4-dichlorobenzene	98.9	70-130	ok
n-butylbenzene	107	70-130	ok
1,2-dichlorobenzene	97.2	70-130	ok
1,2-dibromo-3-chloropropane	108	70-130	ok
1,2,4-trichlorobenzene	98.2	70-130	ok
hexachlorobutadiene	82.7	70-130	ok
naphthalene	104	70-130	ok
1,2,3-trichlorobenzene	98.9	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits
DIBROMOFLUOROMETHANE	83.6	70-130
1,2-DICHLOROETHANE-D4	92.4	70-130
TOLUENE-D8	97.2	70-130
4-BROMOFLUOROBENZENE	86.4	70-130
1,2-DICHLOROBENZENE-D4	88.6	70-130

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	87.2	70-130	ok
1,2-DICHLOROETHANE-D4	93.5	70-130	ok
TOLUENE-D8	96.7	70-130	ok
4-BROMOFLUOROBENZENE	91.2	70-130	ok
1,2-DICHLOROBENZENE-D4	94.4	70-130	ok

Instrument: HP GCMS "S"

GZA GeoEnvironmental, Inc.

EPA Method 8270
Quality Control Report: Method Blank / Laboratory Control Sample
Solid

Spike Value = 20000 ppb

Extraction Date: 03/01/04 MB File Name: V5620
Analysis Date: 03/05/04 LCS File Name: V5621

	Method Blank		Laboratory Control Sample		
Target Compounds:	Result	Reporting Limit	% Recovery	Limits	Pass/Fail
n-nitrosodimethylamine	ND	330	67.3	39 - 92	ok
pyridine	ND	3300	109	16 - 78	out
phenol	ND	330	75.3	46 - 85	ok
bis(2-chloroethyl)ether	ND	330	74.3	49 - 93	ok
2-chlorophenol	ND	330	77.0	47 - 93	ok
1,3-dichlorobenzene	ND	330	77.2	48 - 89	ok
1,4-dichlorobenzene	ND	330	77.2	48 - 89	ok
benzyl alchohol	ND	660	78.8	48 - 93	ok
1,2-dichlorobenzene	ND	330	76.4	49 - 90	ok
2-methylphenol	ND	330	79.4	47 - 98	ok
bis(2-chloroisopropyl)ether	ND	330	86.2	44 - 112	ok
3&4-methylphenol	ND	330	144	31 - 171	ok
n-nitrosodi-n-propylamine	ND	330	77.5	49 - 99	ok
hexachloroethane	ND	330	78.0	42 - 88	ok
nitrobenzene	ND	330	78.6	47 - 96	ok
isophrone	ND	330	80.9	48 - 98	ok
2-nitrophenol	ND	330	78.9	49 - 98	ok
2,4-dimethylphenol	ND	330	70.3	48 - 99	ok
benzoic acid	ND	330	38.3	D - 56	ok
bis(2-chloroethoxy)methane	ND	330	79.4	51 - 96	ok
2,4-dichlorophenol	ND	330	82.8	50 - 99	ok
1,2,4-trichlorobenzene	ND	330	80.8	49 - 92	ok
napthalene	ND	330	82.9	53 - 97	ok
4-chloroaniline	ND	660	86.2	36 - 97	ok
hexachlorobutadiene	ND	330	84.6	47 - 92	ok
4-chloro-3-methylphenol	ND	660	82.4	51 - 103	ok
2-methylnapthalene	ND	330	84.5	53 - 93	ok
aniline	ND	330	85.7	40 - 140	ok
hexachlorocyclopentadiene	ND	1700	84.0	D - 102	ok
2,4,6-trichlorophenol	ND	330	87.5	47 - 100	ok
2,4,5-trichlorophenol	ND	330	90.8	49 - 101	ok
2-chloronaphtalene	ND	330	85.9	53 - 96	ok
2-nitroaniline	ND	1700	75.5	52 - 106	ok
dimethylphthalate	ND	330	84.8	60 - 106	ok
acenapthylene	ND	330	86.2	58 - 102	ok
2,6-dinitrotoluene	ND	330	92.2	56 - 113	ok
3-nitroaniline	ND	1700	86.8	53 - 105	ok
acenaphthene	ND	330	85.8	59 - 103	ok
2,4-dinitrophenol	ND	3300	55.8	D - 75	ok
dibenzofuran	ND	330	85.8	54 - 102	ok
4-nitrophenol	ND	1700	72.9	42 - 103	ok
2,4-dinitrotoluene	ND	330	90.4	53 - 113	ok
diethylphthalate	ND	330	88.6	58 - 113	ok
fluorene	ND	330	86.9	59 - 105	ok
4-chlorophenyl phenyl ether	ND	330	86.5	58 - 102	ok
4-nitroaniline	ND	660	106	57 - 124	ok
4,6-dinitro-2-methylphenol	ND	1700	83.4	10 - 98	ok
n-nitrosodiphenylamine	ND	330	92.1	66 - 111	ok
4-bromophenyl phenyl ether	ND	330	92.8	55 - 106	ok
hexachlorobenzene	ND	330	96.9	51 - 108	ok
pentachlorophenol	ND	1700	87.0	26 - 86	ok
phenanthrene	ND	330	94.1	63 - 112	ok
anthracene	ND	330	94.9	65 - 113	ok
carbazole	ND	330	106	47 - 168	ok
di-n-butylphthalate	ND	500	97.1	67 - 123	ok
fluoranthene	ND	330	105	64 - 116	ok
pyrene	ND	330	94.3	63 - 115	ok
butylbenzylphthalate	ND	330	97.9	61 - 118	ok
benz [a] anthracene	ND	330	106	44 - 120	ok
3,3'-dichlorobenzidine	ND	660	128	32 - 187	ok
chrysene	ND	330	99.1	59 - 118	ok
bis(2-ethylhexyl)phthalate	ND	330	92.5	36 - 170	ok
di-n-octylphthalate	ND	330	96.1	72 - 127	ok
benzo [b] fluoranthene	ND	330	94.0	60 - 114	ok
benzo [k] fluoranthene	ND	330	98.3	59 - 115	ok
benzo [a] pyrene	ND	330	97.4	63 - 117	ok
indeno [1,2,3-cd] pyrene	ND	330	93.3	57 - 123	ok
dibenz [a,h] anthracene	ND	330	95.4	55 - 125	ok
benzo [ghi] perylene	ND	330	83.7	56 - 122	ok

ACOE specifications allows up to five (5) compounds to fail criteria.

Surrogates:	% Recovery	Limits	% Recovery	Limits	Pass/Fail
2-Fluorophenol	76.7	34-135	88.2	34-135	ok
Phenol-D6	76.8	34-135	88.2	34-135	ok
Nitrobenzene-D5	85.8	42-120	76.0	42-120	ok
2-Fluorobiphenyl	75.5	42-120	85.5	42-120	ok
2,4,6-Tribromophenol	100	46-135	119	46-135	ok
P-Terphenyl-D14	95.3	53-120	102	53-120	ok

Report generated: 3/8/04 9:30 AM

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

W.O. # 0403 - 00013 (for lab use only)

CHAIN-OF-CUSTODY RECORD

Sample I.D.	Date/Time Sampled (Very Important)	Matrix A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. Other (specify)	WW ONLY: DphI DOxid. / GC Screen (NON) / CBOD-5 / CBOD-20 / G34 / G3001 / G3002 / G25 / Formaldehyde	ANALYSIS REQUIRED: 8260 TCL / 8021 / 8021 - 1998 List / 8021 1998 List / 8270 DPM / DNH / DNH / 8082-PCBs Only / 8081 - Pest Only / TPH-GC (Mod. 8100) / TPH-GC w/RNG / EPH (MA DEP) / VPH (MA DEP) / TCLP (Spec. Below) / Filtering (*if requested) / Metals (TAL Below)	Total # of Cont.	Note #
LAFARGE-1	3/2/04 1500	S		X X X	4	

PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*

CONTAINER TYPE (P-Plastic, G-Glass V-Vial, O-Other)*

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
	3/2/04 - 1600	UPS
UPS		Lisa Hladik 3/3/04 1030

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

(1) TCL VOLATILES, TCL-SEMI-VOLATILES & TAL METALS + CYANIDE. PLEASE TO LOWEST LIMITS POSSIBLE FOR NYS GUIDELINES. REPORT

PLEASE RETURN COOLER

PROJECT MANAGER: BART KLETTKE EXT:

DATA REPORT ☑ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State

TURNAROUND TIME: Standard Rush 7 Days, Approved by:

LAB USE: TEMP. OF COOLER 4.0 °C AIR 0401 3/3/04 1030 LG

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

GZA FILE NO: 21.0055814 TASK 4 SUBTASK 1 P.O. NO.

PROJECT ALTIFT LANDFILL / RANCO STEEL SITE

LOCATION BUFFALO, NY.

COLLECTOR(S) TURNKILL CONSTRUCTION SHEET 1 OF 1

Mar 10 04 10:23a GZA GeoEnvironme 6784688991 p.13

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

GZA GeoEnvironmental Labs
Attn: Ms. Michelle Mirenda
Engineers and Scientists
106 South Street
Hopkinton, MA 01748

Date Received: 03/03/2004
Date Reported: 03/05/2004
Date Revised: 03/09/2004
P.O. #: 8-26530
Work Order #: 0403-03104

DESCRIPTION GZA FILE# 21.0055814.00 ALLTIFT LANDFILL / RAMCO STEEL

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Paul Perrotti
Data Reporting Manager

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA GeoEnvironmental Labs
Date Received: 03/03/2004
Work Order #: 0403-03104

Approved by: R.I. Analytical

Sample #: 001
SAMPLE LAFARGE-1
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 03/02/2004 @ 15:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<11	11	mg/kg dry	SW-846 9010A	03/09/2004	BC
TOTAL METALS						
POTASSIUM	1200	57	mg/kg dry	SW-846 6010	03/05/2004	JNB
SODIUM	170	170	mg/kg dry	SW-846 6010	03/05/2004	JNB

P.18
7166853629
GZA GeoEnvironme
Mar 10 04 10:26a

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

Trial

W.O. # 0403-00013 (for lab use only)

CHAIN-OF-CUSTODY RECORD

Sample I.D.	Date/Time Sampled (Very Important)	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., Other (specify))	WW ONLY	ANALYSIS REQUIRED	Total # of Cont.	Note #
LAFARGE-1	3/2/04 1500	S		✓ ✓	1	①

PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)*

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	3/3/04 1045	1510 [signature]
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	3-3 1645	EASTERN CONNECTION
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
EASTERN CONNECTION	3/3/04 1830	LR Ray

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

① Sodium, Potassium

0403-03104

Jc 3/8/04

PROJECT MANAGER: Michelle Miranda EXT: 4710

TURNAROUND TIME: Standard ~~10~~ Days, Approved by: _____ LAB USE: TEMP. OF COOLER _____ °C

DATA REPORT ☑ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State _____

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

GZA FILE NO: 21.0055814.00 P.O. NO. 8-26530

PROJECT Allied Landfill / Ramco Steel Site

LOCATION Buffalo, NY

COLLECTOR(S) Tyghill Construction SHEET 1 OF 1

GZAP003



R.I. Analytical

Specialists in Environmental Services

March 9, 2004

GZA GeoEnvironmental Laboratories
Engineers and Scientists
Attn: Ms. Kate Walsh
106 South Street
Hopkinton, MA 01748

Corrective Action #4014

Dear Ms. Walsh:

As per your inquiry through our customer service department, a corrective action request was initiated for Work Order 0403-03104. The Work Order consisted of one soil sample. A data check was requested for the sample labeled Lafarge (0403-03104-001). The review was requested to verify the reported total Cyanide result.

In regards to the Cyanide result, the data was reviewed. The review revealed that the sample was labeled correctly and all data was transcribed correctly. Further investigation by the analyst yielded that the sample was reported as positive right at the reported detection limit. In order to verify the positive result at the reported detection limit, a larger aliquot of the sample was digested, distilled and analyzed. The larger volume allowed the analyst to report the sample as non-detected at a lower detection limit. A revised report is attached indicating the results.

If you have any further questions, please contact me.

Sincerely,

Michael J. Hobin

QA/QC Manager

Cc: James E. Mich; Vice President of Operations
Cc: Leslie Coon; Customer service

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

PARSONS

180 Lawrence Bell Drive, Suite 104 • Williamsville, New York 14221 • (716) 633-7074 • Fax: (716) 633-7195 • www.parsons.com

February 17, 2005

Mr. Jeff Dunn
Tug Hill Construction
40 Pine Street
Lockport, NY 14094

RE: Tifft and Hopkins Site
Submittal No. 02223-2 (1.03 A1&A2)
Gunner Gravel

Dear Mr. Dunn:

Parsons has reviewed Submittal No.02223-2 (A1&A2) Geotechnical and Chemical Testing Results – Gunner Gravel.

This submittal meets the requirement in the Remedial Construction Work Plan. The Gunner Gravel is approved for use as unclassified fill.

If you have any questions or require additional information, please feel free to me at (716) 633-7074.

Sincerely,

Jeffrey Poulsen

cc: Christopher Burns (Clough Harbour)
Bob Jackson (Parsons at Honeywell)
File (440707 No.17)

LETTER OF TRANSMITTAL

TUG HILL Construction, Inc.
ENVIRONMENTAL EARTHWORK CONTRACTORS

40 Pine Street
Lockport, New York 14094
Tel: (716) 433-6606
Fax: (716) 433-6607

4

DATE:	February 15, 2005
PROJECT:	HONEYWELL - TIFFT & HOPKINS PROJECT
ATTENTION:	Jeff Poulsen

TO:

Parsons

180 Lawrence Bell Dr. - Suite 100

Williamsville, NY 14221

RE: Submittal No - 02223-2 (1.03 A1 & A2)

We are sending you:

- [X] Attached
- [ ] Delivered by Hand
- [ ] via Overnight
- [ ] Prints
- [ ] Copy of Letter
- [ ] Plans
- [ ] Specifications
- [ ] Shop Drawings
- [ ] Samples
- [X] Submittals
- [ ] Other _____

COPIES	DATE	NO.	DESCRIPTION
4	2/9/05		Geotechnical & Chemical Testing Results - Gunner Gravel Unclass. Fill

- [X] For your use
- [X] For approval
- [X] As requested
- [ ] For review/distribution
- [ ] Other _____
- [ ] Approval as noted
- [ ] Approved for construction
- [ ] Returned for corrections
- [ ] Returned after loan to us
- [ ] Return ___ corrected prints
- [ ] For bids due _____
- [ ] Submit ___ copies for
- [ ] Re-submit ___ copies for

Remarks

Please review/ comment and contact me if you have any questions

If enclosures are not as indicated,

please notify us at once.

Signed: _____

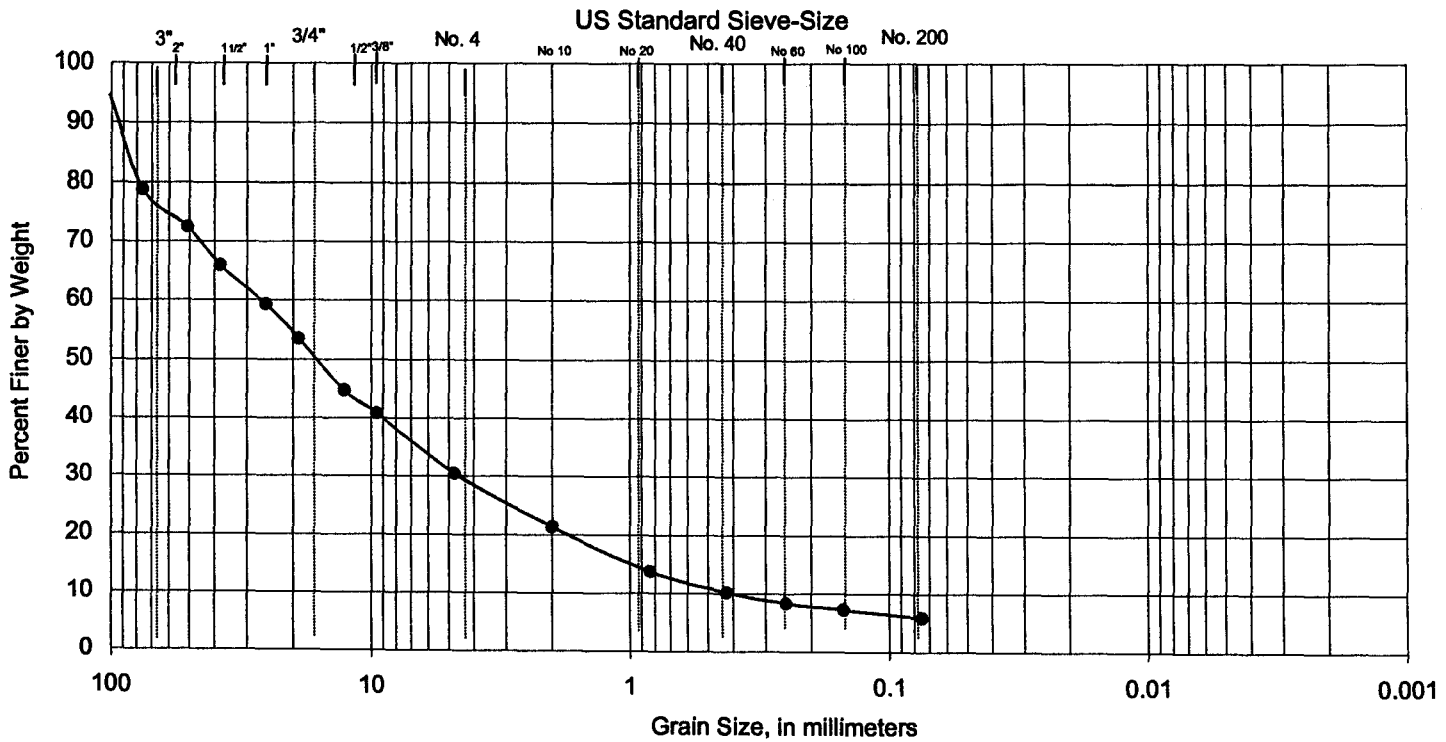
Jeff Dunn, Project Controls Engineer

GEOTECHNICAL LABORATORY TESTING DATA SUMMARY

PROJECT NAME: Alltift Landfill (Tift & Hopkins Site)
LOCATION: Buffalo, New York
PROJECT NO. 55814.00
CLIENT: Tug Hill Construction, Inc.
MATERIAL SOURCE: UNCLASSIFIED FILL (GUNNER GRAVEL)
DATE REPORTED: FEBRUARY 9, 2005
WORK ORDER NO. 4522

IDENTIFICATION			WATER CONTENT	ATTERBERG LIMITS			GRAIN SIZE ANALYSIS		MOISTURE-DENSITY RELATIONSHIP (Modified)		PERMEABILITY TEST					LABORATORY LOG AND SOIL DESCRIPTION
EXPLOR. NUMBER	SAMPLE NUMBER	DEPTH ft.	%	LL %	PL %	PI	SIEVE -200 %	HYD. -2μ %	MAX. DRY DENSITY pcf	OPT. WATER CONTENT %	PERME-ABILITY cm/sec.	TYPE OF TEST	$\bar{\sigma}_c$ psf	DRY UNIT WT pcf	WATER CONTENT %	
BULK BUCKET	GUNNER -1						6									Dark Yellowish Brown Well-graded Gravel with Silty Clay & Sand(GP-GC)

GZA GeoEnvironmental of New York
Engineers and Scientists



GRAVEL		SAND			FINES	
COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

GeoEnvironmental of New York
Engineers and Scientists

D_{10} (mm)	0.407
D_{30} (mm)	4.619
D_{60} (mm)	26.749
Cu	65.715
Cc	1.960

Gravel (%)	69.6
Sand (%)	24.5
Fines(%)	6.0
Depth (ft)	NA

Alltift Landfill (Tift & Hopkins Site)
Buffalo, New York
PARTICLE-SIZE ANALYSIS

Sample No	GUNNER-1	File No.	55814
Lab No.	1.1	Work Order	4522
Tech.	DEW	Date	2/7/05
Rev.	DEW		

GRAIN-SIZE ANALYSIS

Sieve

Sieve Number	Diameter (mm)	Acumm.Wt. Retained (g)	Wt. Soil Retained (g)	% of Soil Retained	Acumm. % Retained	Acumm. % Finer
4"	101.6	1918	1918.0	5.4	5.4	94.6
3"	76.20	7527	5609.0	15.8	21.1	78.9
2"	50.80	9808	2281.0	6.4	27.6	72.4
1-1/2"	38.10	12122	2314.0	6.5	34.1	65.9
1"	25.40	14488	2366.0	6.6	40.7	59.3
3/4"	19.05	16547	2059.0	5.8	46.5	53.5
1/2"	12.70	19633	3086.0	8.7	55.2	44.8
3/8"	9.53	21068	1435.0	4.0	59.2	40.8
4	4.75	24760	3692.0	10.4	69.6	30.4
10	2.00	39.84	3242.3	9.1	78.7	21.3
20	0.84	72.74	2677.5	7.5	86.2	13.8
40	0.43	88.53	1285.0	3.6	89.8	10.2
60	0.25	96.67	662.4	1.9	91.7	8.3
140	0.15	101.21	369.5	1.0	92.7	7.3
200	0.08	106.96	467.9	1.3	94.0	6.0

D_{10} (mm)	0.4070
D_{30} (mm)	4.6191
D_{60} (mm)	26.7485
Cu	65.7152
Cc	1.9596

Gravel (%)	69.6
Sand (%)	24.5
Fines (%)	6.0
W (%) -#4	4.0
Depth (ft)	NA

GeoEnvironmental of New York

Engineers and Scientists

Project Name:	Alltift Landfill (Tift & Hopkins Site)		
Location:	Buffalo, New York		
Sample No.:	GUNNER-1		
Test Type	M		
Lab No:	1.1	File No.	55814
Tech:	DEW	Work Order:	4522
Rev:	DEW	Date:	2/7/05

Analytical Testing Results Summary for Unclassified Fill Sample
Taken From Gunner Gravel Source

Tifft and Hopkins Site
Buffalo, New York

Parameter	Recommended Soil Cleanup Objective ppm	Eastern USA Background ppm	Gunner-1 ppm
VOC - EPA Method 8260 (ppm)			
No Compounds Detected		N/A	N/D
SVOC - EPA Method 8270 (ppm)			
No Compounds Detected		N/A	N/D
TAL Metals including Cyanide and Mercury - EPA Methods 6010 and 7174 A)			
Aluminum	SB	33,000	8480
Arsenic	7.5 or SB	3-12	17.0
Barium	300 or SB	15-600	63.9
Beryllium	0.16 or SB	0-1.75	0.4
Calcium	SB	130-35,000	3,260
Chromium	10 or SB	1.5-40	11.8
Cobalt	30 or SB	2.5-60	11.5
Copper	25 or SB	1-50	45.7
Iron	2000 or SB	2000-550,000	33,800
Lead	SB	See Note 5	20.0
Magnesium	SB	100-5000	4,080
Manganese	SB	50-5000	525
Nickel	13 or SB	0.5-25	**28.4**
Potassium	SB	8500-43,000	1,000
Vanadium	150 or SB	1-300	12.0
Zinc	20 or SB	9-50	**180**

Notes:

1. Only compounds detected are presented on this table. Refer to original data sheets for list of all compounds included in analysis.
2. Analytical testing completed by GZA GeoEnvironmental Laboratories, Inc.
3. Recommended soil cleanup objectives are based on the Division Technical and Administrative Guidance Memorandum (TAGM) 4046 on Determination of Soil Cleanup Objectives and Cleanup Levels in its final form.
4. ND = not detected, NA = not available
5. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.
6. mg/kg = ppm

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA: MA092 NH: 2028 RI: 236
CT: PH0579 OK: 9928 NC: 615
NY (NELAC): 11063

ANALYTICAL DATA REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225
(716)685-2300
Bart Klettke

Project No.: 21.0055814.00
Work Order No.: 0502-00030
Date Received: 2/04/05
Date Reported: 2/10/05

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
2/03/2005	Solid	0502-00030 001	GUNNER-1

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 2/04/05
Date Reported: 2/10/05
Work Order No.: 0502-00030

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 02/04/05 via __GZA courier, _x_UPS, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 0.3 degrees C. The samples were received intact for all requested analyses.

The sample was methanol preserved in the laboratory upon receipt.

2. Subcontracted Analyses

* Analyses were subcontracted to RIAL on 02/04/05.

Certification MA: MA-RI015, NH: 253700 A&B, CT: PH-0508, ME: RI015, RI: RI-033, NY:11726,

3. EPA Method 8260 - VOCs

The above samples have been evaluated for the presence of the target analytes at levels between the reporting (quantitation) limit and the method detection limit (MDL) and are reported, when detected, as estimated concentrations (J).

Attach QC 8260 02/04/05 - Solid

4. EPA Method 6010B/7471A - Metals

Attach QC 6010B 02/04/05 - Solid
Attach QC Mercury 02/08/05 - Solid

5. EPA Method 8270 - SVOCs

Attach QC 8270 02/04/05 - Solid

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 2/04/05
Date Reported: 2/10/05
Work Order No.: 0502-00030

Data Authorized By: _____

% R = % Recovery
DF = Dilution Factor
DO = Diluted Out

Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Laboratory Identification Numbers:

MA: MA092 NH: 2028
CT: PH0579 RI: 236
NC: 615 NY (NELAC): 11063

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per each method and are reported at the end of the analytical report if assigned on the chain of custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 2/04/05
Date Reported: 2/10/05
Work Order No.: 0502-00030

Sample ID: GUNNER-1
Sample Date: 2/03/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	2/04/05
Dichlorodifluoromethane	EPA 8260	<140	ug/kg	MQS	2/04/05
Chloromethane	EPA 8260	<140	ug/kg	MQS	2/04/05
Vinyl Chloride	EPA 8260	<70	ug/kg	MQS	2/04/05
Bromomethane	EPA 8260	<140	ug/kg	MQS	2/04/05
Chloroethane	EPA 8260	<70	ug/kg	MQS	2/04/05
Trichlorofluoromethane	EPA 8260	<140	ug/kg	MQS	2/04/05
Diethylether	EPA 8260	<70	ug/kg	MQS	2/04/05
Acetone	EPA 8260	<700	ug/kg	MQS	2/04/05
1,1-Dichloroethene	EPA 8260	<70	ug/kg	MQS	2/04/05
Dichloromethane	EPA 8260	<70	ug/kg	MQS	2/04/05
Methyl-Tert-Butyl-Ether	EPA 8260	<70	ug/kg	MQS	2/04/05
trans-1,2-Dichloroethene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,1-Dichloroethane	EPA 8260	<70	ug/kg	MQS	2/04/05
2-Butanone	EPA 8260	<700	ug/kg	MQS	2/04/05
2,2-Dichloropropane	EPA 8260	<70	ug/kg	MQS	2/04/05
cis-1,2-Dichloroethene	EPA 8260	<70	ug/kg	MQS	2/04/05
Chloroform	EPA 8260	<70	ug/kg	MQS	2/04/05
Bromochloromethane	EPA 8260	<70	ug/kg	MQS	2/04/05
Tetrahydrofuran	EPA 8260	<140	ug/kg	MQS	2/04/05
1,1,1-Trichloroethane	EPA 8260	<70	ug/kg	MQS	2/04/05
1,1-Dichloropropene	EPA 8260	<70	ug/kg	MQS	2/04/05
Carbon Tetrachloride	EPA 8260	<70	ug/kg	MQS	2/04/05
1,2-Dichloroethane	EPA 8260	<70	ug/kg	MQS	2/04/05
Benzene	EPA 8260	<70	ug/kg	MQS	2/04/05
Trichloroethene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,2-Dichloropropane	EPA 8260	<70	ug/kg	MQS	2/04/05
Bromodichloromethane	EPA 8260	<70	ug/kg	MQS	2/04/05
Dibromomethane	EPA 8260	<70	ug/kg	MQS	2/04/05
4-Methyl-2-Pentanone	EPA 8260	<140	ug/kg	MQS	2/04/05
cis-1,3-Dichloropropene	EPA 8260	<70	ug/kg	MQS	2/04/05
Toluene	EPA 8260	<70	ug/kg	MQS	2/04/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0502-00030

Sample ID: GUNNER-1
Sample Date: 2/03/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,1,2-Trichloroethane	EPA 8260	<70	ug/kg	MQS	2/04/05
2-Hexanone	EPA 8260	<140	ug/kg	MQS	2/04/05
1,3-Dichloropropane	EPA 8260	<70	ug/kg	MQS	2/04/05
Tetrachloroethene	EPA 8260	<70	ug/kg	MQS	2/04/05
Dibromochloromethane	EPA 8260	<70	ug/kg	MQS	2/04/05
1,2-Dibromoethane (EDB)	EPA 8260	<140	ug/kg	MQS	2/04/05
Chlorobenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,1,1,2-Tetrachloroethane	EPA 8260	<70	ug/kg	MQS	2/04/05
Ethylbenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
m&p-Xylene	EPA 8260	<70	ug/kg	MQS	2/04/05
o-Xylene	EPA 8260	<70	ug/kg	MQS	2/04/05
Styrene	EPA 8260	<70	ug/kg	MQS	2/04/05
Bromoform	EPA 8260	<140	ug/kg	MQS	2/04/05
Isopropylbenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,1,2,2-Tetrachloroethane	EPA 8260	<70	ug/kg	MQS	2/04/05
1,2,3-Trichloropropane	EPA 8260	<70	ug/kg	MQS	2/04/05
Bromobenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
n-Propylbenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
2-Chlorotoluene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,3,5-Trimethylbenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
4-Chlorotoluene	EPA 8260	<70	ug/kg	MQS	2/04/05
tert-Butylbenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,2,4-Trimethylbenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
sec-Butylbenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
p-Isopropyltoluene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,3-Dichlorobenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,4-Dichlorobenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
n-Butylbenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,2-Dichlorobenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,2-Dibromo-3-Chloropropane	EPA 8260	<350	ug/kg	MQS	2/04/05
1,2,4-Trichlorobenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
Hexachlorobutadiene	EPA 8260	<70	ug/kg	MQS	2/04/05
Naphthalene	EPA 8260	<70	ug/kg	MQS	2/04/05
1,2,3-Trichlorobenzene	EPA 8260	<70	ug/kg	MQS	2/04/05
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	112	% R	MQS	2/04/05
***Toluene-D8	EPA 8260	97.3	% R	MQS	2/04/05
***4-Bromofluorobenzene	EPA 8260	110	% R	MQS	2/04/05
Preparation	EPA 5035	14	DF	MQS	2/04/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0502-00030

Sample ID: GUNNER-1
Sample Date: 2/03/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	2/09/05
Phenol	EPA 8270	<330	ug/kg	CMG	2/09/05
2-Chlorophenol	EPA 8270	<330	ug/kg	CMG	2/09/05
2-Methylphenol	EPA 8270	<330	ug/kg	CMG	2/09/05
3&4-Methylphenol	EPA 8270	<330	ug/kg	CMG	2/09/05
2-Nitrophenol	EPA 8270	<330	ug/kg	CMG	2/09/05
2,4-Dimethylphenol	EPA 8270	<330	ug/kg	CMG	2/09/05
Benzoic Acid	EPA 8270	<3300	ug/kg	CMG	2/09/05
2,4-Dichlorophenol	EPA 8270	<330	ug/kg	CMG	2/09/05
4-Chloro-3-Methylphenol	EPA 8270	<660	ug/kg	CMG	2/09/05
2,4,6-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	2/09/05
2,4,5-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	2/09/05
2,4-Dinitrophenol	EPA 8270	<3300	ug/kg	CMG	2/09/05
4-Nitrophenol	EPA 8270	<1700	ug/kg	CMG	2/09/05
4,6-Dinitro-2-Methylphenol	EPA 8270	<1700	ug/kg	CMG	2/09/05
Pentachlorophenol	EPA 8270	<1700	ug/kg	CMG	2/09/05
n-Nitrosodimethylamine	EPA 8270	<330	ug/kg	CMG	2/09/05
bis(2-Chloroethyl)Ether	EPA 8270	<330	ug/kg	CMG	2/09/05
1,3-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	2/09/05
1,4-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	2/09/05
Benzyl Alcohol	EPA 8270	<660	ug/kg	CMG	2/09/05
1,2-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	2/09/05
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	ug/kg	CMG	2/09/05
n-Nitrosodi-n-Propylamine	EPA 8270	<330	ug/kg	CMG	2/09/05
Hexachloroethane	EPA 8270	<330	ug/kg	CMG	2/09/05
Nitrobenzene	EPA 8270	<330	ug/kg	CMG	2/09/05
Isophorone	EPA 8270	<330	ug/kg	CMG	2/09/05
bis(2-Chloroethoxy)Methane	EPA 8270	<330	ug/kg	CMG	2/09/05
1,2,4-Trichlorobenzene	EPA 8270	<330	ug/kg	CMG	2/09/05
Naphthalene	EPA 8270	<330	ug/kg	CMG	2/09/05
4-Chloroaniline	EPA 8270	<660	ug/kg	CMG	2/09/05
Hexachlorobutadiene	EPA 8270	<330	ug/kg	CMG	2/09/05
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	2/09/05
Hexachlorocyclopentadiene	EPA 8270	<1700	ug/kg	CMG	2/09/05
2-Chloronaphthalene	EPA 8270	<330	ug/kg	CMG	2/09/05
2-Nitroaniline	EPA 8270	<660	ug/kg	CMG	2/09/05
Dimethylphthalate	EPA 8270	<330	ug/kg	CMG	2/09/05
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	2/09/05
2,6-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	2/09/05
3-Nitroaniline	EPA 8270	<660	ug/kg	CMG	2/09/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0502-00030

Sample ID: GUNNER-1
Sample Date: 2/03/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
Acenaphthene	EPA 8270	<330	ug/kg	CMG	2/09/05
Dibenzofuran	EPA 8270	<330	ug/kg	CMG	2/09/05
2,4-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	2/09/05
Diethylphthalate	EPA 8270	<330	ug/kg	CMG	2/09/05
Fluorene	EPA 8270	<330	ug/kg	CMG	2/09/05
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	2/09/05
4-Nitroaniline	EPA 8270	<660	ug/kg	CMG	2/09/05
n-Nitrosodiphenylamine	EPA 8270	<330	ug/kg	CMG	2/09/05
4-Bromophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	2/09/05
Hexachlorobenzene	EPA 8270	<330	ug/kg	CMG	2/09/05
Phenanthrene	EPA 8270	<330	ug/kg	CMG	2/09/05
Anthracene	EPA 8270	<330	ug/kg	CMG	2/09/05
Carbazole	EPA 8270	<330	ug/kg	CMG	2/09/05
di-n-Butylphthalate	EPA 8270	<500	ug/kg	CMG	2/09/05
Fluoranthene	EPA 8270	<330	ug/kg	CMG	2/09/05
Pyrene	EPA 8270	<330	ug/kg	CMG	2/09/05
Butylbenzylphthalate	EPA 8270	<330	ug/kg	CMG	2/09/05
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	2/09/05
3,3'-Dichlorobenzidine	EPA 8270	<660	ug/kg	CMG	2/09/05
Chrysene	EPA 8270	<330	ug/kg	CMG	2/09/05
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	ug/kg	CMG	2/09/05
di-n-Octylphthalate	EPA 8270	<330	ug/kg	CMG	2/09/05
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	2/09/05
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	2/09/05
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	2/09/05
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	2/09/05
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	2/09/05
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	2/09/05
Surrogates:					
***2-Fluorophenol	EPA 8270	58.0	% R	CMG	2/09/05
***Phenol-D6	EPA 8270	63.5	% R	CMG	2/09/05
***Nitrobenzene-D5	EPA 8270	69.4	% R	CMG	2/09/05
***2-Fluorobiphenyl	EPA 8270	72.3	% R	CMG	2/09/05
***2,4,6-Tribromophenol	EPA 8270	69.8	% R	CMG	2/09/05
***P-Terphenyl-D14	EPA 8270	60.2	% R	CMG	2/09/05
Extraction	EPA 3545	1.0	DF	ARL	2/04/05
METALS-TARGET ANALYTE LIST				AJY	2/07/05
Silver	EPA 6010	<0.379	mg/kg	AJY	2/07/05
Aluminum	EPA 6010	8480	mg/kg	AJY	2/07/05
Arsenic	EPA 6010	17.0	mg/kg	AJY	2/07/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0502-00030

Sample ID: GUNNER-1
Sample Date: 2/03/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
Barium	EPA 6010	63.9	mg/kg	AJY	2/07/05
Beryllium	EPA 6010	0.379	mg/kg	AJY	2/07/05
Calcium	EPA 6010	3260	mg/kg	AJY	2/08/05
Cadmium	EPA 6010	<0.379	mg/kg	AJY	2/07/05
Cobalt	EPA 6010	11.5	mg/kg	AJY	2/07/05
Chromium	EPA 6010	11.8	mg/kg	AJY	2/07/05
Copper	EPA 6010	45.7	mg/kg	AJY	2/07/05
Iron	EPA 6010	33800	mg/kg	AJY	2/08/05
Mercury	EPA 7471A	<0.0326	mg/kg	NH	2/08/05
Magnesium	EPA 6010	4080	mg/kg	AJY	2/07/05
Manganese	EPA 6010	525	mg/kg	AJY	2/07/05
Nickel	EPA 6010	28.4	mg/kg	AJY	2/07/05
Lead	EPA 6010	20.0	mg/kg	AJY	2/07/05
Antimony	EPA 6010	<1.89	mg/kg	AJY	2/07/05
Selenium	EPA 6010	<1.89	mg/kg	AJY	2/07/05
Vanadium	EPA 6010	12.0	mg/kg	AJY	2/07/05
Thallium	EPA 6010	<1.89	mg/kg	AJY	2/07/05
Zinc	EPA 6010	180	mg/kg	AJY	2/07/05
PERCENT SOLID		88.2	%	TAJ	2/07/05
SUBCONTRACTED ANALYTES					
Sodium	EPA 6010B	<160	mg/L	XXX	2/09/05
Total Cyanide	EPA 9012	<9.9	mg/L	XXX	2/09/05
Potassium	EPA 6010B	1000	mg/L	XXX	2/09/05

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS
Metals by ICP

QUALITY CONTROL - SOLID

DATE PREPARED: 02/04/2005

QC Sample	Method Blank	Lab Control Sample
Units	mg/kg	% Recovery
Acceptance Limits	Results	80-120%
Analyte		
Silver (Ag)	<0.500	136
Aluminum (Al)	<2.500	92.0
Arsenic (As)	<1.000	90.5
Boron (B)	NA	NA
Barium (Ba)	<0.500	93.1
Beryllium (Be)	<0.500	92.3
Calcium (Ca)	<2.500	75.7
Cadmium (Cd)	<0.500	92.8
Cobalt (Co)	<1.000	95.7
Chromium (Cr)	<0.500	92.1
Copper (Cu)	<1.500	104
Iron (Fe)	<2.500	98.2
Magnesium (Mg)	<2.500	93.1
Manganese (Mn)	<0.500	96.7
Molybdenum (Mo)	NA	NA
Nickel (Ni)	<1.000	96.0
Lead (Pb)	<1.000	93.3
Antimony (Sb)	<2.500	90.0
Selenium (Se)	<2.500	90.4
Strontium (Sr)	NA	NA
Titanium (Ti)	NA	NA
Thallium (Tl)	<2.500	91.9
Vanadium (V)	<0.500	96.2
Zinc (Zn)	<1.000	94.8

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8260 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	2/4/2005	
Volatile Organics	Conc. ug/L	Acceptance Limit
dichlorodifluoromethane	< 250	< 250
chloromethane	< 250	< 250
vinyl chloride	< 250	< 250
bromomethane	< 250	< 250
chloroethane	< 250	< 250
trichlorofluoromethane	< 250	< 250
diethyl ether	< 500	< 500
acetone	< 1300	< 1300
1,1-dichloroethene	< 130	< 130
FREON-113	< 250	< 250
carbon disulfide	< 250	< 250
dichloromethane	< 250	< 250
tert-butyl alcohol (TBA)	< 1300	< 1300
methyl-tert-butyl-ether	< 250	< 250
trans-1,2-dichloroethene	< 130	< 130
1,1-dichloroethane	< 130	< 130
di-isopropyl ether (DIPE)	< 250	< 250
ethyl tert-butyl ether (EtBE)	< 250	< 250
2-butanone	< 1300	< 1300
2,2-dichloropropane	< 130	< 130
cis-1,2-dichloroethene	< 130	< 130
chloroform	< 130	< 130
bromochloromethane	< 130	< 130
tetrahydrafuran	< 750	< 750
1,1,1-trichloroethane	< 130	< 130
1,1-dichloropropene	< 130	< 130
carbon tetrachloride	< 130	< 130
1,2-dichloroethane	< 130	< 130
benzene	< 130	< 130
tert-amyl methyl ether (TAME)	< 250	< 250
trichloroethene	< 130	< 130
1,2-dichloropropane	< 130	< 130
bromodichloromethane	< 130	< 130
1,4-Dioxane	< 2500	< 2500
dibromomethane	< 130	< 130
4-methyl-2-pentanone	< 250	< 250
cis-1,3-dichloropropene	< 130	< 130
toluene	< 130	< 130
trans-1,3-dichloropropene	< 130	< 130
1,1,2-trichloroethane	< 250	< 250
2-hexanone	< 250	< 250
1,3-dichloropropane	< 130	< 130
tetrachloroethene	< 130	< 130
dibromochloromethane	< 130	< 130
1,2-dibromoethane (EDB)	< 130	< 130
chlorobenzene	< 130	< 130
1,1,1,2-tetrachloroethane	< 130	< 130
ethylbenzene	< 130	< 130
1,1,2,2-tetrachloroethane	< 130	< 130
m&p-xylene	< 130	< 130
o-xylene	< 130	< 130
styrene	< 130	< 130
bromoform	< 130	< 130
isopropylbenzene	< 130	< 130
1,2,3-trichloropropane	< 130	< 130
bromobenzene	< 130	< 130
n-propylbenzene	< 130	< 130
2-chlorotoluene	< 130	< 130
1,3,5-trimethylbenzene	< 130	< 130
4-chlorotoluene	< 130	< 130
tert-butyl-benzene	< 130	< 130
1,2,4-trimethylbenzene	< 130	< 130
sec-butyl-benzene	< 130	< 130
p-isopropyltoluene	< 750	< 750
1,3-dichlorobenzene	< 130	< 130
1,4-dichlorobenzene	< 130	< 130
n-butylbenzene	< 130	< 130
1,2-dichlorobenzene	< 130	< 130
1,2-dibromo-3-chloropropane	< 130	< 130
1,2,4-trichlorobenzene	< 130	< 130
hexachlorobutadiene	< 130	< 130
naphthalene	< 130	< 130
1,2,3-trichlorobenzene	< 130	< 130

Laboratory Control Sample

Date Analyzed:	2/4/2005		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	122	70-130	ok
chloromethane	97.1	70-130	ok
vinyl chloride	100	70-130	ok
bromomethane	109	70-130	ok
chloroethane	95.2	70-130	ok
trichlorofluoromethane	84.3	70-130	ok
diethyl ether	107	70-130	ok
acetone	72.4	70-130	ok
1,1-dichloroethene	99.2	70-130	ok
FREON-113	118	70-130	ok
carbon disulfide	98.9	70-130	ok
dichloromethane	111	70-130	ok
tert-butyl alcohol (TBA)	87.8	70-130	ok
methyl-tert-butyl-ether	91.7	70-130	ok
trans-1,2-dichloroethene	99.4	70-130	ok
1,1-dichloroethane	82.1	70-130	ok
di-isopropyl ether (DIPE)	83.2	70-130	ok
ethyl tert-butyl ether (EtBE)	70.9	70-130	ok
2-butanone	81.9	70-130	ok
2,2-dichloropropane	66.6	70-130	out
cis-1,2-dichloroethene	88.2	70-130	ok
chloroform	86.4	70-130	ok
bromochloromethane	103	70-130	ok
tetrahydrafuran	84.1	70-130	ok
1,1,1-trichloroethane	76.3	70-130	ok
1,1-dichloropropene	88.6	70-130	ok
carbon tetrachloride	74.2	70-130	ok
1,2-dichloroethane	72.2	70-130	ok
benzene	95.8	70-130	ok
tert-amyl methyl ether (TAME)	95.4	70-130	ok
trichloroethene	105	70-130	ok
1,2-dichloropropane	92.9	70-130	ok
bromodichloromethane	93.4	70-130	ok
1,4-Dioxane	112	70-130	ok
dibromomethane	125	70-130	ok
4-methyl-2-pentanone	87.3	70-130	ok
cis-1,3-dichloropropene	98.5	70-130	ok
toluene	89.5	70-130	ok
trans-1,3-dichloropropene	92.6	70-130	ok
1,1,2-trichloroethane	109	70-130	ok
2-hexanone	83.8	70-130	ok
1,3-dichloropropane	102	70-130	ok
tetrachloroethene	119	70-130	ok
dibromochloromethane	106	70-130	ok
1,2-dibromoethane (EDB)	109	70-130	ok
chlorobenzene	101	70-130	ok
1,1,1,2-tetrachloroethane	105	70-130	ok
ethylbenzene	100	70-130	ok
1,1,2,2-tetrachloroethane	114	70-130	ok
m&p-xylene	91.9	70-130	ok
o-xylene	85.2	70-130	ok
styrene	92.4	70-130	ok
bromoform	111	70-130	ok
isopropylbenzene	84.6	70-130	ok
1,2,3-trichloropropane	94.9	70-130	ok
bromobenzene	111	70-130	ok
n-propylbenzene	85.4	70-130	ok
2-chlorotoluene	92.0	70-130	ok
1,3,5-trimethylbenzene	82.9	70-130	ok
4-chlorotoluene	89.0	70-130	ok
tert-butyl-benzene	79.1	70-130	ok
1,2,4-trimethylbenzene	83.6	70-130	ok
sec-butyl-benzene	84.7	70-130	ok
p-isopropyltoluene	78.9	70-130	ok
1,3-dichlorobenzene	109	70-130	ok
1,4-dichlorobenzene	109	70-130	ok
n-butylbenzene	81.1	70-130	ok
1,2-dichlorobenzene	110	70-130	ok
1,2-dibromo-3-chloropropane	78.7	70-130	ok
1,2,4-trichlorobenzene	113	70-130	ok
hexachlorobutadiene	101	70-130	ok
naphthalene	88.4	70-130	ok
1,2,3-trichlorobenzene	113	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits
DIBROMOFLUOROMETHANE	96.4	70-130
1,2-DICHLOROETHANE-D4	118	70-130
TOLUENE-D8	97.4	70-130
4-BROMOFLUOROBENZENE	112	70-130
1,2-DICHLOROBENZENE-D4	114	70-130

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	96.5	70-130	ok
1,2-DICHLOROETHANE-D4	117	70-130	ok
TOLUENE-D8	98.7	70-130	ok
4-BROMOFLUOROBENZENE	113	70-130	ok
1,2-DICHLOROBENZENE-D4	115	70-130	ok

Instrument: HP GC/MS "A"

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470/7471 ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - SOLID

Date Analyzed: 02/08/2005

QC Sample	Method Blank	Lab Control Sample
Units	mg/L	% Recovery
Acceptance Limits	Results	85-115 %
Analyte		
Mercury (Hg)	<0.040 (solid)	104

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
MA092

EPA Method 8270 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted:	02/04/05
Date Analyzed:	02/08/05
File Name:	K7479

Volatile Organics	Result	Reporting Limit
n-nitrosodimethylamine	ND	10
pyridine	ND	100
phenol	ND	10
bis(2-chloroethyl)ether	ND	10
2-chlorophenol	ND	10
1,3-dichlorobenzene	ND	10
1,4-dichlorobenzene	ND	10
benzyl alchohol	ND	20
1,2-dichlorobenzene	ND	10
2-methylphenol	ND	10
bis(2-chloroisopropyl)ether	ND	10
3&4-methylphenol	ND	10
n-nitrosodi-n-propylamine	ND	10
hexachloroethane	ND	10
nitrobenzene	ND	10
isophrone	ND	10
2-nitrophenol	ND	10
2,4-dimethylphenol	ND	10
benzoic acid	ND	10
bis(2-chloroethoxy)methane	ND	10
2,4-dichlorophenol	ND	10
1,2,4-trichlorobenzene	ND	10
napthalene	ND	2.0
4-chloroaniline	ND	10
hexachlorobutadiene	ND	10
4-chloro-3-methylphenol	ND	20
2-methylnapthalene	ND	2.0
aniline	ND	10
hexachlorocyclopentadiene	ND	50
2,4,6-trichlorophenol	ND	10
2,4,5-trichlorophenol	ND	10
2-chloronapthalene	ND	10
2-nitroaniline	ND	50
dimethylphthalate	ND	10
acenapthylene	ND	2.0
2,6-dinitrotoluene	ND	10
3-nitroaniline	ND	50
acenaphthene	ND	2.0
2,4-dinitrophenol	ND	100
dibenzofuran	ND	10
4-nitrophenol	ND	50
2,4-dinitrotoluene	ND	10
diethylphthalate	ND	10
fluorene	ND	2.0
4-chlorophenyl phenyl ether	ND	10
4-nitroaniline	ND	20
4,6-dinitro-2-methylphenol	ND	50
n-nitrosodiphenylamine	ND	10
4-bromophenyl phenyl ether	ND	10
hexachlorobenzene	ND	10
pentachlorophenol	ND	50
phenanthrene	ND	2.0
anthracene	ND	2.0
carbazole	ND	10
di-n-butylphthalate	ND	15
fluoranthene	ND	2.0
benzidine	ND	10
pyrene	ND	2.0
butylbenzylphthalate	ND	10
benz [a] anthracene	ND	2.0
3,3'-dichlorobenzidine	ND	20
chrysene	ND	2.0
bis(2-ethylhexyl)phthalate	ND	10
di-n-octylphthalate	ND	10
benzo [b] fluoranthene	ND	2.0
benzo [k] fluoranthene	ND	2.0
benzo [a] pyrene	ND	2.0
indeno [1,2,3-cd] pyrene	ND	2.0
dibenz [a,h] anthracene	ND	2.0
benzo [ghi] perylene	ND	2.0

Surrogates:	Recovery (%)	Acceptance Limits
2-FLUOROPHENOL	65.8	15-110
PHENOL-D6	74.0	15-110
NITROBENZENE-D5	76.3	30-130
2-FLUOROBIPHENYL	81.3	30-130
2,4,6-TRIBROMOPHENOL	86.5	15-110
p-TERPHENYL-D14	89.2	30-130

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
MA062

EPA Method 8270 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Laboratory Control Sample

Date Extracted:	02/04/05		
Date Analyzed:	02/08/05		
File Name:	K7480		
Spike Concentration = 20ug/L	**% Recovery**	**Acceptance Limits**	**Verdict**
n-nitrosodimethylamine	91.1	40-140	ok
pyridine	77.3	40-140	ok
phenol	96.8	30-130	ok
bis(2-chloroethyl)ether	101	40-140	ok
2-chlorophenol	97.7	30-130	ok
1,3-dichlorobenzene	89.8	40-140	ok
1,4-dichlorobenzene	97.3	40-140	ok
benzyl alchohol	98.1	40-140	ok
1,2-dichlorobenzene	97.1	40-140	ok
2-methylphenol	101	30-130	ok
bis(2-chloroisopropyl)ether	101	40-140	ok
3&4-methylphenol	185	30-130	out
n-nitrosodi-n-propylamine	101	40-140	ok
hexachloroethane	103	40-140	ok
nitrobenzene	99.5	40-140	ok
isophrone	106	40-140	ok
2-nitrophenol	99.3	30-130	ok
2,4-dimethylphenol	100	30-130	ok
benzoic acid	101	30-130	ok
bis(2-chloroethoxy)methane	98.6	40-140	ok
2,4-dichlorophenol	105	30-130	ok
1,2,4-trichlorobenzene	101	40-140	ok
napthalene	101	40-140	ok
4-chloroaniline	47.3	40-140	ok
hexachlorobutadiene	94.9	40-140	ok
4-chloro-3-methylphenol	102	30-130	ok
2-methylnapthalene	99.8	40-140	ok
aniline	84.6	40-140	ok
hexachlorocyclopentadiene	93.0	40-140	ok
2,4,6-trichlorophenol	103	30-130	ok
2,4,5-trichlorophenol	104	30-130	ok
2-chloronapthalene	99.7	40-140	ok
2-nitroaniline	95.5	40-140	ok
dimethylphthalate	106	40-140	ok
acenapthylene	105	40-140	ok
2,6-dinitrotoluene	109	40-140	ok
3-nitroaniline	101	40-140	ok
acenaphthene	99.7	40-140	ok
2,4-dinitrophenol	97.0	30-130	ok
dibenzofuran	101	40-140	ok
4-nitrophenol	97.8	30-130	ok
2,4-dinitrotoluene	100	40-140	ok
diethylphthalate	101	40-140	ok
fluorene	99.8	40-140	ok
4-chlorophenyl phenyl ether	102	40-140	ok
4-nitroaniline	106	40-140	ok
4,6-dinitro-2-methylphenol	95.5	30-130	ok
n-nitrosodiphenylamine	101	40-140	ok
4-bromophenyl phenyl ether	101	40-140	ok
hexachlorobenzene	101	40-140	ok
pentachlorophenol	117	30-130	ok
phenanthrene	104	40-140	ok
anthracene	106	40-140	ok
carbazole	120	40-140	ok
di-n-butylphthalate	107	40-140	ok
fluoranthene	99.2	40-140	ok
benzidine	0.14	40-140	out
pyrene	107	40-140	ok
butylbenzylphthalate	99.1	40-140	ok
benz [a] anthracene	95.5	40-140	ok
3,3'-dichlorobenzidine	97.2	40-140	ok
chrysene	97.4	40-140	ok
bis(2-ethylhexyl)phthalate	104	40-140	ok
di-n-octylphthalate	110	40-140	ok
benzo [b] fluoranthene	104	40-140	ok
benzo [k] fluoranthene	91.5	40-140	ok
benzo [a] pyrene	90.3	40-140	ok
indeno [1,2,3-cd] pyrene	108	40-140	ok
dibenz [a,h] anthracene	99.8	40-140	ok
benzo [ghi] perylene	112	40-140	ok

CAM criteria allows 15% of analytes to exceed criteria.

Surrogates:	**Recovery (%)**	**Acceptance Limits**	**Verdict**
2-FLUOROPHENOL	83.4	15-110	ok
PHENOL-D6	83.5	15-110	ok
NITROBENZENE-D5	92.3	30-130	ok
2-FLUOROBIPHENYL	93.0	30-130	ok
2,4,6-TRIBROMOPHENOL	82.2	15-110	ok
p-TERPHENYL-D14	89.5	30-130	ok

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

W.O. # 0502-00030 (for lab use only)

CHAIN-OF-CUSTODY RECORD

Sample I.D.	Date/Time Sampled (Very Important)	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., Other (specify))	WW ONLY: DpH, DCond., GC Screen (VOA), D624.2, D502.2, 624, D601, D602, 625, Formaldehyde	ANALYSIS REQUIRED: 8260 TCL, 8021, 8021 - "8010" List, 8021 "8020" List, 8270 DPull DPNH DBN TCL, 8082-PCBs Only, 8081 - Pest Only, TPH-GC (Mod. 8100), TPH-GC w/FING, EPH (MA DEP), VPH (MA DEP), TCLP (Spec. Below), Filtering (✓ if requested), Metals DPPM-13 ☐ R-8 TAL, Metals (List Below)	Total # of Cont.	Note #
GUNNER-1	2/3/05 9:30	S	8260 TCL ✓; 8270 DPull DPNH DBN TCL ✓; Metals DPPM-13 ☐ R-8 TAL ✓		3	1,2
PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*						
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)*						

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	2/3/05	UPS
UPS	DATE/TIME	RECEIVED BY:
		Lisa Salute 2/4/05 1100
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

1) TCL VOLATILES, TCL SEMI-VOLATILES, TAL METALS REPORT TO LOWEST DETECTION LIMITS FOR NYS GUIDELINES.

2). PLEASE RETURN COOLER. AIR 0411

716-695-2300

PROJECT MANAGER: BART KLETTKE EXT: 3810

TURNAROUND TIME: Standard (Rush) 4 Days, Approved by: _____ LAB USE: TEMP. OF COOLER 0.3 °C

DATA REPORT ☑ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State _____

2/4/05 1100

GZA FILE NO: 21.0055814.00 P.O. NO. _____

PROJECT ALLIFT LANDFILL/RATLO STEEL SITE

LOCATION BUFFALO, N.Y.

COLLECTOR(S) JAB SHEET 1 OF 1

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

ACCREDITED IN ACCORDANCE WITH

GZAP003

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

GZA GeoEnvironmental Labs
Attn: Ms. Michelle Mirenda
Engineers and Scientists
106 South Street
Hopkinton, MA 01748

Date Received: 02/04/2005
Date Reported: 02/09/2005
P.O. #: 8-27409
Work Order # 0502-01793

DESCRIPTION: GZA FILE# 21.0055814.00 ALLTIFT LANDFILL/RAMCO STEEL

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA GeoEnvironmental Labs
Date Received: 02/04/2005
Work Order #: 0502-01793

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: GUNNER-1
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 02/03/2005 @ 09:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<9.9	9.9	mg/kg dry	SW-846 9010A	02/09/2005	EC
TOTAL METALS						
POTASSIUM	1000	55	mg/kg dry	SW-846 6010	02/09/2005	JNB
SODIUM	<160	160	mg/kg dry	SW-846 6010	02/09/2005	JNB

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

Rial

W.O. # 0502-00030 (for lab use only)

CHAIN-OF-CUSTODY RECORD

Sample I.D.	Date/Time Sampled (Very Important)	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., Other (specify))	WW ONLY: OpH DCond.	GC Screen (VOA)	CS24.2 CS02.2	624	CR01 CS02	625	Formaldehyde	ANALYSIS REQUIRED: 8260	8021	8021 - "3010" List	8021 "8020" List	8270 DF=8 CPAH CBNH	8082-PCBs Only	8081 - Pest Only	TPH-GC (Mod. 8100)	TPH-GC w/FING	EPH (MA DEP)	VPH (MA DEP)	TCLP (Spec. Below)	Filtering (✓ if required)	Metals CRPM-13 CI R-8	Metals (List Below)	Cyanide				Total # of Cont.	Note #
GUNNER-1	2/3/05 0930	S																					✓						1	1.
PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*																							—	—						
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)*																							G	G						

RELINQUISHED BY: [illegible] DATE/TIME 2/4/05 1130 RECEIVED BY: [illegible]

RELINQUISHED BY: [illegible] DATE/TIME 2-4 1645 RECEIVED BY: EASTERN CONNECTION

RELINQUISHED BY: EASTERN CONNECTION DATE/TIME 2/4/05 1815 RECEIVED BY: LR Roy

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

1. Sodium (NA), Potassium (K)

0502-01793

due 2/10

PROJECT MANAGER: Michelle Miranda EXT: 4710

TURNAROUND TIME: Standard (Rush) Days, Approved by: Rial

LAB USE: TEMP. OF COOLER °C

DATA REPORT ☒ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State

GZA FILE NO: 21.0055814.00 P.O. NO. 8-27409

PROJECT Allied Landfill / Kamco Steel Site

LOCATION Buffalo, NY

COLLECTOR(S) SMB SHEET 1 OF 1

GZA GeoEnvironmental, Inc.
Engineers and Scientists
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

Accredited in Accordance with NELAC

GZAP003

PARSONS

180 Lawrence Bell Drive, Suite 104 • Williamsville, New York 14221 • (716) 633-7074 • Fax: (716) 633-7195 • www.parsons.com

April 1, 2005

Mr. Jeff Dunn
Tug Hill Construction
40 Pine Street
Lockport, NY 14094

RE: Tifft and Hopkins Site
Submittal No. 02223-4 (1.03 A1&A2)
Chemical Testing Results – Gunner Gravel

Dear Mr. Dunn:

Parsons has reviewed Submittal No.02223-4 (1.03 A1&A2) Chemical Testing Results – Gunner Gravel Unclassified fill

This submittal meets the requirement in the Remedial Construction Work Plan. The Gunner Gravel is approved for use as unclassified fill.

If you have any questions or require additional information, please feel free to me at (716) 633-7074.

Sincerely,

Jeffrey Poulsen

cc: Christopher Burns (Clough Harbour)
Bob Jackson (Parsons at Honeywell)
File (440707 No.17i)

LETTER OF TRANSMITTAL

TUG HILL Construction, Inc.
ENVIRONMENTAL EARTHWORK CONTRACTORS

40 Pine Street
Lockport, New York 14094
Tel: (716) 433-6606
Fax: (716) 433-6607

9

DATE:	March 30, 2005
PROJECT:	HONEYWELL - TIFFT & HOPKINS PROJECT
ATTENTION:	Jeff Poulsen

TO:

Parsons

180 Lawrence Bell Dr. - Suite 100

Williamsville, NY 14221

RE: Submittal No - 02223-4 (1.03 A1 & A2)

We are sending you:

- [X] Attached
- [ ] Delivered by Hand
- [ ] via Overnight
- [ ] Prints
- [ ] Copy of Letter
- [ ] Plans
- [ ] Specifications
- [ ] Shop Drawings
- [ ] Samples
- [X] Submittals
- [ ] Other _____

COPIES	DATE	NO.	DESCRIPTION
4	3/29/2005		Chemical Testing Results - Gunner Gravel Unclass. Fill

- [X] For your use
- [ ] Approval as noted
- [ ] Return ___ corrected prints
- [X] For approval
- [ ] Approved for construction
- [ ] For bids due _____
- [X] As requested
- [ ] Returned for corrections
- [ ] Submit ___ copies for
- [ ] For review/distribution
- [ ] Returned after loan to us
- [ ] Re-submit ___ copies for
- [ ] Other _____

Remarks

Jeff, these analytical results are for the next 10,000 cy's of material needed from the Gunner Gravel source for the above mentioned project. Please review/ comment and contact me if you have any questions.

If enclosures are not as indicated,

please notify us at once.

Signed: _____

Jeff Dunn, Project Controls Engineer

Analytical Testing Results Summary for Unclassified Fill Sample
Taken From Gunner Gravel Source

Tifft and Hopkins Site
Buffalo, New York

Parameter	Recommended Soil Cleanup Objective ppm	Eastern USA Background ppm	Gunner-2 ppm
VOC - EPA Method 8260 (ppm)			
No Compounds Detected		N/A	ND
SVOC - EPA Method 8270 (ppm)			
No Compounds Detected		N/A	ND
TAL Metals including Cyanide and Mercury - EPA Methods 6010 and 7174 A (ppm)			
Aluminum	SB	33,000	9830
Arsenic	7.5 or SB	3-12	**15.8**
Barium	300 or SB	15-600	68
Beryllium	0.16 or SB	0-1.75	ND
Calcium	SB	130-35,000	10,600
Chromium	10 or SB	1.5-40	14.7
Cobalt	30 or SB	2.5-60	10.8
Copper	25 or SB	1-50	42.6
Iron	2000 or SB	2000-550,000	33,300
Lead	SB	See Note 5	17.8
Magnesium	SB	100-5000	7,760
Manganese	SB	50-5000	498
Nickel	13 or SB	0.5-25	**26.1**
Potassium	SB	8500-43,000	780
Vanadium	150 or SB	1-300	14.6
Zinc	20 or SB	9-50	**242**

Notes:

1. Only compounds detected are presented on this table. Refer to original data sheets for list of all compounds included in analysis.
2. Analytical testing completed by GZA GeoEnvironmental Laboratories, Inc.
3. Recommended soil cleanup objectives are based on the Division Technical and Administrative Guidance Memorandum (TAGM) 4046 on Determination of Soil Cleanup Objectives and Cleanup Levels in its final form.
4. ND = not detected, NA = not available
5. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.
6. mg/kg = ppm

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: MA092 NH: 2028
CT: PH0579 RI: LAO00236
NELAC - NYS DOH: 11063

ANALYTICAL DATA REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225
(716)685-2300
Bart Klettke

Project No.:	21.0055814.00
Work Order No.:	0503-00126
Date Received:	3/22/05
Date Reported:	3/29/05

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
3/18/2005	Solid	0503-00126 001	GUNNER-2

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 3/22/05
Date Reported: 3/29/05
Work Order No.: 0503-00126

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 03/22/05 via __GZA courier, _x_UPS, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 4.4 degrees C. The samples were received intact for all requested analyses.

The samples were appropriately preserved in accordance with the method they reference.

2. Subcontracted Analyses

* Analyses were subcontracted to RIAL on 03/22/05.

Certification MA: MA-RI015, NH: 253700 A&B, CT: PH-0508, ME: RI015, RI: RI-033, NY:11726

3. EPA Method 6010B/7471A - Metals

Attach QC 6010B 03/22/05 - Solid
Attach QC Mercury 03/25/05 - Solid

4. EPA Method 8260 - VOCs

The above samples have been evaluated for the presence of the target analytes at levels between the reporting (quantitation) limit and the method detection limit (MDL) and are reported, when detected, as estimated concentrations (J).

Attach QC 8260 03/22/05 - Solid

5. EPA Method 8270 - SVOCs

Attach QC 8270 03/23/05 - Solid

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 3/22/05
Date Reported: 3/29/05
Work Order No.: 0503-00126

Data Authorized By:

% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
DO = Diluted Out

Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per each method and are reported at the end of the analytical report if assigned on the chain of custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 3/22/05
Date Reported: 3/29/05
Work Order No.: 0503-00126

Sample ID: GUNNER-2
Sample Date: 3/18/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	3/22/05
Dichlorodifluoromethane	EPA 8260	<140	ug/kg	MQS	3/22/05
Chloromethane	EPA 8260	<140	ug/kg	MQS	3/22/05
Vinyl Chloride	EPA 8260	<70	ug/kg	MQS	3/22/05
Bromomethane	EPA 8260	<140	ug/kg	MQS	3/22/05
Chloroethane	EPA 8260	<70	ug/kg	MQS	3/22/05
Trichlorofluoromethane	EPA 8260	<140	ug/kg	MQS	3/22/05
Diethylether	EPA 8260	<70	ug/kg	MQS	3/22/05
Acetone	EPA 8260	<700	ug/kg	MQS	3/22/05
1,1-Dichloroethene	EPA 8260	<70	ug/kg	MQS	3/22/05
Dichloromethane	EPA 8260	<70	ug/kg	MQS	3/22/05
Methyl-Tert-Butyl-Ether	EPA 8260	<70	ug/kg	MQS	3/22/05
trans-1,2-Dichloroethene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,1-Dichloroethane	EPA 8260	<70	ug/kg	MQS	3/22/05
2-Butanone	EPA 8260	<700	ug/kg	MQS	3/22/05
2,2-Dichloropropane	EPA 8260	<70	ug/kg	MQS	3/22/05
cis-1,2-Dichloroethene	EPA 8260	<70	ug/kg	MQS	3/22/05
Chloroform	EPA 8260	<70	ug/kg	MQS	3/22/05
Bromochloromethane	EPA 8260	<70	ug/kg	MQS	3/22/05
Tetrahydrofuran	EPA 8260	<140	ug/kg	MQS	3/22/05
1,1,1-Trichloroethane	EPA 8260	<70	ug/kg	MQS	3/22/05
1,1-Dichloropropene	EPA 8260	<70	ug/kg	MQS	3/22/05
Carbon Tetrachloride	EPA 8260	<70	ug/kg	MQS	3/22/05
1,2-Dichloroethane	EPA 8260	<70	ug/kg	MQS	3/22/05
Benzene	EPA 8260	<70	ug/kg	MQS	3/22/05
Trichloroethene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,2-Dichloropropane	EPA 8260	<70	ug/kg	MQS	3/22/05
Bromodichloromethane	EPA 8260	<70	ug/kg	MQS	3/22/05
Dibromomethane	EPA 8260	<70	ug/kg	MQS	3/22/05
4-Methyl-2-Pentanone	EPA 8260	<140	ug/kg	MQS	3/22/05
cis-1,3-Dichloropropene	EPA 8260	<70	ug/kg	MQS	3/22/05
Toluene	EPA 8260	<70	ug/kg	MQS	3/22/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0503-00126

Sample ID: GUNNER-2
Sample Date: 3/18/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,1,2-Trichloroethane	EPA 8260	<70	ug/kg	MQS	3/22/05
2-Hexanone	EPA 8260	<140	ug/kg	MQS	3/22/05
1,3-Dichloropropane	EPA 8260	<70	ug/kg	MQS	3/22/05
Tetrachloroethene	EPA 8260	<70	ug/kg	MQS	3/22/05
Dibromochloromethane	EPA 8260	<70	ug/kg	MQS	3/22/05
1,2-Dibromoethane (EDB)	EPA 8260	<140	ug/kg	MQS	3/22/05
Chlorobenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,1,1,2-Tetrachloroethane	EPA 8260	<70	ug/kg	MQS	3/22/05
Ethylbenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
m&p-Xylene	EPA 8260	<70	ug/kg	MQS	3/22/05
o-Xylene	EPA 8260	<70	ug/kg	MQS	3/22/05
Styrene	EPA 8260	<70	ug/kg	MQS	3/22/05
Bromoform	EPA 8260	<140	ug/kg	MQS	3/22/05
Isopropylbenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,1,2,2-Tetrachloroethane	EPA 8260	<70	ug/kg	MQS	3/22/05
1,2,3-Trichloropropane	EPA 8260	<70	ug/kg	MQS	3/22/05
Bromobenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
n-Propylbenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
2-Chlorotoluene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,3,5-Trimethylbenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
4-Chlorotoluene	EPA 8260	<70	ug/kg	MQS	3/22/05
tert-Butylbenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,2,4-Trimethylbenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
sec-Butylbenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
p-Isopropyltoluene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,3-Dichlorobenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,4-Dichlorobenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
n-Butylbenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,2-Dichlorobenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,2-Dibromo-3-Chloropropane	EPA 8260	<350	ug/kg	MQS	3/22/05
1,2,4-Trichlorobenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
Hexachlorobutadiene	EPA 8260	<70	ug/kg	MQS	3/22/05
Naphthalene	EPA 8260	<70	ug/kg	MQS	3/22/05
1,2,3-Trichlorobenzene	EPA 8260	<70	ug/kg	MQS	3/22/05
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	96.4	% R	MQS	3/22/05
***Toluene-D8	EPA 8260	99.1	% R	MQS	3/22/05
***4-Bromofluorobenzene	EPA 8260	99.2	% R	MQS	3/22/05
Preparation	EPA 5035	14	DF	MQS	3/22/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0503-00126

Sample ID: GUNNER-2
Sample Date: 3/18/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	3/28/05
Phenol	EPA 8270	<330	ug/kg	CMG	3/28/05
2-Chlorophenol	EPA 8270	<330	ug/kg	CMG	3/28/05
2-Methylphenol	EPA 8270	<330	ug/kg	CMG	3/28/05
3&4-Methylphenol	EPA 8270	<330	ug/kg	CMG	3/28/05
2-Nitrophenol	EPA 8270	<330	ug/kg	CMG	3/28/05
2,4-Dimethylphenol	EPA 8270	<330	ug/kg	CMG	3/28/05
Benzoic Acid	EPA 8270	<3300	ug/kg	CMG	3/28/05
2,4-Dichlorophenol	EPA 8270	<330	ug/kg	CMG	3/28/05
4-Chloro-3-Methylphenol	EPA 8270	<660	ug/kg	CMG	3/28/05
2,4,6-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	3/28/05
2,4,5-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	3/28/05
2,4-Dinitrophenol	EPA 8270	<3300	ug/kg	CMG	3/28/05
4-Nitrophenol	EPA 8270	<1700	ug/kg	CMG	3/28/05
4,6-Dinitro-2-Methylphenol	EPA 8270	<1700	ug/kg	CMG	3/28/05
Pentachlorophenol	EPA 8270	<1700	ug/kg	CMG	3/28/05
n-Nitrosodimethylamine	EPA 8270	<330	ug/kg	CMG	3/28/05
bis(2-Chloroethyl)Ether	EPA 8270	<330	ug/kg	CMG	3/28/05
1,3-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	3/28/05
1,4-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	3/28/05
Benzyl Alcohol	EPA 8270	<660	ug/kg	CMG	3/28/05
1,2-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	3/28/05
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	ug/kg	CMG	3/28/05
n-Nitrosodi-n-Propylamine	EPA 8270	<330	ug/kg	CMG	3/28/05
Hexachloroethane	EPA 8270	<330	ug/kg	CMG	3/28/05
Nitrobenzene	EPA 8270	<330	ug/kg	CMG	3/28/05
Isophorone	EPA 8270	<330	ug/kg	CMG	3/28/05
bis(2-Chloroethoxy)Methane	EPA 8270	<330	ug/kg	CMG	3/28/05
1,2,4-Trichlorobenzene	EPA 8270	<330	ug/kg	CMG	3/28/05
Naphthalene	EPA 8270	<330	ug/kg	CMG	3/28/05
4-Chloroaniline	EPA 8270	<660	ug/kg	CMG	3/28/05
Hexachlorobutadiene	EPA 8270	<330	ug/kg	CMG	3/28/05
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	3/28/05
Hexachlorocyclopentadiene	EPA 8270	<1700	ug/kg	CMG	3/28/05
2-Chloronaphthalene	EPA 8270	<330	ug/kg	CMG	3/28/05
2-Nitroaniline	EPA 8270	<660	ug/kg	CMG	3/28/05
Dimethylphthalate	EPA 8270	<330	ug/kg	CMG	3/28/05
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	3/28/05
2,6-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	3/28/05
3-Nitroaniline	EPA 8270	<660	ug/kg	CMG	3/28/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0503-00126

Sample ID: GUNNER-2
Sample Date: 3/18/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
Acenaphthene	EPA 8270	<330	ug/kg	CMG	3/28/05
Dibenzofuran	EPA 8270	<330	ug/kg	CMG	3/28/05
2,4-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	3/28/05
Diethylphthalate	EPA 8270	<330	ug/kg	CMG	3/28/05
Fluorene	EPA 8270	<330	ug/kg	CMG	3/28/05
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	3/28/05
4-Nitroaniline	EPA 8270	<660	ug/kg	CMG	3/28/05
n-Nitrosodiphenylamine	EPA 8270	<330	ug/kg	CMG	3/28/05
4-Bromophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	3/28/05
Hexachlorobenzene	EPA 8270	<330	ug/kg	CMG	3/28/05
Phenanthrene	EPA 8270	<330	ug/kg	CMG	3/28/05
Anthracene	EPA 8270	<330	ug/kg	CMG	3/28/05
Carbazole	EPA 8270	<330	ug/kg	CMG	3/28/05
di-n-Butylphthalate	EPA 8270	<500	ug/kg	CMG	3/28/05
Fluoranthene	EPA 8270	<330	ug/kg	CMG	3/28/05
Pyrene	EPA 8270	<330	ug/kg	CMG	3/28/05
Butylbenzylphthalate	EPA 8270	<330	ug/kg	CMG	3/28/05
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	3/28/05
3,3'-Dichlorobenzidine	EPA 8270	<660	ug/kg	CMG	3/28/05
Chrysene	EPA 8270	<330	ug/kg	CMG	3/28/05
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	ug/kg	CMG	3/28/05
di-n-Octylphthalate	EPA 8270	<330	ug/kg	CMG	3/28/05
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	3/28/05
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	3/28/05
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	3/28/05
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	3/28/05
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	3/28/05
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	3/28/05
Surrogates:					
***2-Fluorophenol	EPA 8270	54.5	% R	CMG	3/28/05
***Phenol-D6	EPA 8270	48.1	% R	CMG	3/28/05
***Nitrobenzene-D5	EPA 8270	69.5	% R	CMG	3/28/05
***2-Fluorobiphenyl	EPA 8270	66.0	% R	CMG	3/28/05
***2,4,6-Tribromophenol	EPA 8270	37.9	% R	CMG	3/28/05
***P-Terphenyl-D14	EPA 8270	55.6	% R	CMG	3/28/05
Extraction	EPA 3545	1.0	DF	ARL	3/23/05
METALS-TARGET ANALYTE LIST				AJY	3/23/05
Silver	EPA 6010	<0.425	mg/kg	AJY	3/23/05
Aluminum	EPA 6010	9830	mg/kg	AJY	3/23/05
Arsenic	EPA 6010	15.8	mg/kg	AJY	3/23/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0503-00126

Sample ID: GUNNER-2
Sample Date: 3/18/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
Barium	EPA 6010	68.0	mg/kg	AJY	3/23/05
Beryllium	EPA 6010	<0.425	mg/kg	AJY	3/23/05
Calcium	EPA 6010	10600	mg/kg	AJY	3/23/05
Cadmium	EPA 6010	<0.425	mg/kg	AJY	3/23/05
Cobalt	EPA 6010	10.8	mg/kg	AJY	3/23/05
Chromium	EPA 6010	14.7	mg/kg	AJY	3/23/05
Copper	EPA 6010	42.6	mg/kg	AJY	3/23/05
Iron	EPA 6010	33300	mg/kg	AJY	3/23/05
Mercury	EPA 7471A	<0.0286	mg/kg	NH	3/25/05
Magnesium	EPA 6010	7760	mg/kg	AJY	3/23/05
Manganese	EPA 6010	498	mg/kg	AJY	3/23/05
Nickel	EPA 6010	26.1	mg/kg	AJY	3/23/05
Lead	EPA 6010	17.8	mg/kg	AJY	3/23/05
Antimony	EPA 6010	2.60	mg/kg	AJY	3/23/05
Selenium	EPA 6010	3.97	mg/kg	AJY	3/23/05
Vanadium	EPA 6010	14.6	mg/kg	AJY	3/23/05
Thallium	EPA 6010	<2.13	mg/kg	AJY	3/23/05
Zinc	EPA 6010	242	mg/kg	AJY	3/23/05
Metals Preparation	EPA 3051	79.9	DF	AJY	3/22/05
PERCENT SOLID		93.9	%	TAJ	3/23/05
SUBCONTRACTED ANALYTES					
Sodium	EPA 6010B	<160	mg/kg dry	XXX	3/24/05
Total Cyanide	EPA 9010A	<10	mg/kg dry	XXX	3/25/05
Potassium	EPA 6010B	780	mg/kg dry	XXX	3/24/05

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS
Metals by ICP

QUALITY CONTROL - SOLID

DATE PREPARED: 03/22/2005

QC Sample	Method Blank	Lab Control Sample
Units	mg/kg	% Recovery
Acceptance Limits	Results	80-120%
Analyte		
Silver (Ag)	<0.500	90.2
Aluminum (Al)	<2.500	90.0
Arsenic (As)	<1.000	93.0
Boron (B)	NA	NA
Barium (Ba)	<0.500	96.0
Beryllium (Be)	<0.500	94.9
Calcium (Ca)	<2.500	83.0
Cadmium (Cd)	<0.500	92.2
Cobalt (Co)	<1.000	97.3
Chromium (Cr)	<0.500	97.1
Copper (Cu)	<1.500	117
Iron (Fe)	<2.500	97.8
Magnesium (Mg)	<2.500	95.9
Manganese (Mn)	<0.500	97.0
Molybdenum (Mo)	NA	NA
Nickel (Ni)	<1.000	96.8
Lead (Pb)	<1.000	95.0
Antimony (Sb)	<2.500	91.9
Selenium (Se)	<2.500	89.0
Strontium (Sr)	NA	NA
Titanium (Ti)	NA	NA
Thallium (Tl)	<2.500	92.5
Vanadium (V)	<0.500	95.5
Zinc (Zn)	<1.000	95.3

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470/7471 ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - SOLID

Date Analyzed: 03/25/2005

QC Sample	Method Blank	Lab Control Sample
Units	mg/L	% Recovery
Acceptance Limits	Results	85-115 %
Analyte		
Mercury (Hg)	<0.040 (solid)	108

Matrix Spike / Duplicate Spike performed as per method an reported if assigned on Chain of Custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8260 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	3/22/2005	
Volatile Organics	Conc. ug/L	Acceptance Limit
dichlorodifluoromethane	< 250	< 250
chloromethane	< 250	< 250
vinyl chloride	< 250	< 250
bromomethane	< 250	< 250
chloroethane	< 250	< 250
trichlorofluoromethane	< 250	< 250
diethyl ether	< 500	< 500
acetone	< 1300	< 1300
1,1-dichloroethene	< 130	< 130
FREON-113	< 250	< 250
carbon disulfide	< 250	< 250
dichloromethane	< 250	< 250
tert-butyl alcohol (TBA)	< 1300	< 1300
methyl-tert-butyl-ether	< 250	< 250
trans-1,2-dichloroethene	< 130	< 130
1,1-dichloroethane	< 130	< 130
di-isopropyl ether (DIPE)	< 250	< 250
ethyl tert-butyl ether (EtBE)	< 250	< 250
2-butanone	< 1300	< 1300
2,2-dichloropropane	< 130	< 130
cis-1,2-dichloroethene	< 130	< 130
chloroform	< 130	< 130
bromochloromethane	< 130	< 130
tetrahydrafuran	< 750	< 750
1,1,1-trichloroethane	< 130	< 130
1,1-dichloropropene	< 130	< 130
carbon tetrachloride	< 130	< 130
1,2-dichloroethane	< 130	< 130
benzene	< 130	< 130
tert-amyl methyl ether (TAME)	< 250	< 250
trichloroethene	< 130	< 130
1,2-dichloropropane	< 130	< 130
bromodichloromethane	< 130	< 130
1,4-Dioxane	< 2500	< 2500
dibromomethane	< 130	< 130
4-methyl-2-pentanone	< 250	< 250
cis-1,3-dichloropropene	< 130	< 130
toluene	< 130	< 130
trans-1,3-dichloropropene	< 130	< 130
1,1,2-trichloroethane	< 250	< 250
2-hexanone	< 250	< 250
1,3-dichloropropane	< 130	< 130
tetrachloroethene	< 130	< 130
dibromochloromethane	< 130	< 130
1,2-dibromoethane (EDB)	< 130	< 130
chlorobenzene	< 130	< 130
1,1,1,2-tetrachloroethane	< 130	< 130
ethylbenzene	< 130	< 130
1,1,2,2-tetrachloroethane	< 130	< 130
m&p-xylene	< 130	< 130
o-xylene	< 130	< 130
styrene	< 130	< 130
bromoform	< 130	< 130
isopropylbenzene	< 130	< 130
1,2,3-trichloropropane	< 130	< 130
bromobenzene	< 130	< 130
n-propylbenzene	< 130	< 130
2-chlorotoluene	< 130	< 130
1,3,5-trimethylbenzene	< 130	< 130
4-chlorotoluene	< 130	< 130
tert-butyl-benzene	< 130	< 130
1,2,4-trimethylbenzene	< 130	< 130
sec-butyl-benzene	< 130	< 130
p-isopropyltoluene	< 750	< 750
1,3-dichlorobenzene	< 130	< 130
1,4-dichlorobenzene	< 130	< 130
n-butylbenzene	< 130	< 130
1,2-dichlorobenzene	< 130	< 130
1,2-dibromo-3-chloropropane	< 130	< 130
1,2,4-trichlorobenzene	< 130	< 130
hexachlorobutadiene	< 130	< 130
naphthalene	< 130	< 130
1,2,3-trichlorobenzene	< 130	< 130

Laboratory Control Sample

Date Analyzed:	3/22/2005		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	101	70-130	ok
chloromethane	92.0	70-130	ok
vinyl chloride	96.6	70-130	ok
bromomethane	101	70-130	ok
chloroethane	94.7	70-130	ok
trichlorofluoromethane	95.1	70-130	ok
diethyl ether	95.6	70-130	ok
acetone	107	70-130	ok
1,1-dichloroethene	98.7	70-130	ok
FREON-113	95.4	70-130	ok
carbon disulfide	94.7	70-130	ok
dichloromethane	91.9	70-130	ok
tert-butyl alcohol (TBA)	98.8	70-130	ok
methyl-tert-butyl-ether	95.6	70-130	ok
trans-1,2-dichloroethene	98.8	70-130	ok
1,1-dichloroethane	98.7	70-130	ok
di-isopropyl ether (DIPE)	99.8	70-130	ok
ethyl tert-butyl ether (EtBE)	102	70-130	ok
2-butanone	98.6	70-130	ok
2,2-dichloropropane	97.1	70-130	ok
cis-1,2-dichloroethene	102	70-130	ok
chloroform	104	70-130	ok
bromochloromethane	100	70-130	ok
tetrahydrafuran	108	70-130	ok
1,1,1-trichloroethane	102	70-130	ok
1,1-dichloropropene	97.8	70-130	ok
carbon tetrachloride	98.0	70-130	ok
1,2-dichloroethane	97.6	70-130	ok
benzene	94.7	70-130	ok
tert-amyl methyl ether (TAME)	99.9	70-130	ok
trichloroethene	97.8	70-130	ok
1,2-dichloropropane	97.4	70-130	ok
bromodichloromethane	105	70-130	ok
1,4-Dioxane	49.2	70-130	out
dibromomethane	101	70-130	ok
4-methyl-2-pentanone	107	70-130	ok
cis-1,3-dichloropropene	101	70-130	ok
toluene	97.4	70-130	ok
trans-1,3-dichloropropene	97.5	70-130	ok
1,1,2-trichloroethane	110	70-130	ok
2-hexanone	105	70-130	ok
1,3-dichloropropane	97.8	70-130	ok
tetrachloroethene	97.6	70-130	ok
dibromochloromethane	98.4	70-130	ok
1,2-dibromoethane (EDB)	104	70-130	ok
chlorobenzene	95.3	70-130	ok
1,1,1,2-tetrachloroethane	97.6	70-130	ok
ethylbenzene	96.1	70-130	ok
1,1,2,2-tetrachloroethane	113	70-130	ok
m&p-xylene	104	70-130	ok
o-xylene	97.8	70-130	ok
styrene	100	70-130	ok
bromoform	101	70-130	ok
isopropylbenzene	99.4	70-130	ok
1,2,3-trichloropropane	112	70-130	ok
bromobenzene	97.9	70-130	ok
n-propylbenzene	99.3	70-130	ok
2-chlorotoluene	103	70-130	ok
1,3,5-trimethylbenzene	99.3	70-130	ok
4-chlorotoluene	102	70-130	ok
tert-butyl-benzene	99.2	70-130	ok
1,2,4-trimethylbenzene	98.1	70-130	ok
sec-butyl-benzene	102	70-130	ok
p-isopropyltoluene	102	70-130	ok
1,3-dichlorobenzene	102	70-130	ok
1,4-dichlorobenzene	102	70-130	ok
n-butylbenzene	101	70-130	ok
1,2-dichlorobenzene	100	70-130	ok
1,2-dibromo-3-chloropropane	105	70-130	ok
1,2,4-trichlorobenzene	98.5	70-130	ok
hexachlorobutadiene	104	70-130	ok
naphthalene	98.8	70-130	ok
1,2,3-trichlorobenzene	100	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits
DIBROMOFLUOROMETHANE	107	70-130
1,2-DICHLOROETHANE-D4	106	70-130
TOLUENE-D8	101	70-130
4-BROMOFLUOROBENZENE	99.4	70-130
1,2-DICHLOROBENZENE-D4	96.9	70-130

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	99.5	70-130	ok
1,2-DICHLOROETHANE-D4	108	70-130	ok
TOLUENE-D8	102	70-130	ok
4-BROMOFLUOROBENZENE	101	70-130	ok
1,2-DICHLOROBENZENE-D4	98.2	70-130	ok

Instrument: HP GC/MS "S"

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted:	**03/23/05**
Date Analyzed:	**03/28/05**
File Name:	**V7326**

Volatile Organics	Result	Reporting Limit
n-nitrosodimethylamine	ND	330
pyridine	ND	3300
phenol	ND	330
bis(2-chloroethyl)ether	ND	330
2-chlorophenol	ND	330
1,3-dichlorobenzene	ND	330
1,4-dichlorobenzene	ND	330
benzyl alchohol	ND	660
1,2-dichlorobenzene	ND	330
2-methylphenol	ND	330
bis(2-chloroisopropyl)ether	ND	330
3&4-methylphenol	ND	330
n-nitrosodi-n-propylamine	ND	330
hexachloroethane	ND	330
nitrobenzene	ND	330
isophrone	ND	330
2-nitrophenol	ND	330
2,4-dimethylphenol	ND	330
benzoic acid	ND	330
bis(2-chloroethoxy)methane	ND	330
2,4-dichlorophenol	ND	330
1,2,4-trichlorobenzene	ND	330
napthalene	ND	330
4-chloroaniline	ND	660
hexachlorobutadiene	ND	330
4-chloro-3-methylphenol	ND	660
2-methylnapthalene	ND	330
aniline	ND	330
hexachlorocyclopentadiene	ND	1700
2,4,6-trichlorophenol	ND	330
2,4,5-trichlorophenol	ND	330
2-chloronapthalene	ND	330
2-nitroaniline	ND	1700
dimethylphthalate	ND	330
acenapthylene	ND	330
2,6-dinitrotoluene	ND	330
3-nitroaniline	ND	1700
acenaphthene	ND	330
2,4-dinitrophenol	ND	3300
dibenzofuran	ND	330
4-nitrophenol	ND	1700
2,4-dinitrotoluene	ND	330
diethylphthalate	ND	330
fluorene	ND	330
4-chlorophenyl phenyl ether	ND	330
4-nitroaniline	ND	660
4,6-dinitro-2-methylphenol	ND	1700
n-nitrosodiphenylamine	ND	330
4-bromophenyl phenyl ether	ND	330
hexachlorobenzene	ND	330
pentachlorophenol	ND	1700
phenanthrene	ND	330
anthracene	ND	330
carbazole	ND	330
di-n-butylphthalate	ND	500
fluoranthene	ND	330
benzidine	ND	330
pyrene	ND	330
butylbenzylphthalate	ND	330
benz [a] anthracene	ND	330
3,3'-dichlorobenzidine	ND	660
chrysene	ND	330
bis(2-ethylhexyl)phthalate	ND	330
di-n-octylphthalate	ND	330
benzo [b] fluoranthene	ND	330
benzo [k] fluoranthene	ND	330
benzo [a] pyrene	ND	330
indeno [1,2,3-cd] pyrene	ND	330
dibenz [a,h] anthracene	ND	330
benzo [ghi] perylene	ND	330

Surrogates:	Recovery (%)	Acceptance Limits
2-FLUOROPHENOL	13.5	30-130
PHENOL-D6	56.2	30-130
2-CHLOROPHENOL-D4	68.3	30-130
1,2-DICHLOROBENZENE-D4	73.2	30-130
NITROBENZENE-D5	71.6	30-130
2-FLUOROBIPHENYL	70.7	30-130
2,4,6-TRIBROMOPHENOL	47.4	30-130
p-TERPHENYL-D14	67.6	30-130

GZA GeoEnvironmental, Inc.
108 South Street
Hopkinton, MA 01748

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Laboratory Control Sample

Date Extracted:	**03/23/05**		
Date Analyzed:	**03/28/05**		
File Name:	**V7327**		
Spike Concentration = 20ug/L	**% Recovery**	**Acceptance Limits**	**Verdict**
n-nitrosodimethylamine	44.1	40-140	ok
pyridine	27.9	40-140	out
phenol	70.5	30-130	ok
bis(2-chloroethyl)ether	68.7	40-140	ok
2-chlorophenol	89.1	30-130	ok
1,3-dichlorobenzene	93.4	40-140	ok
1,4-dichlorobenzene	88.9	40-140	ok
benzyl alchohol	103	40-140	ok
1,2-dichlorobenzene	102	40-140	ok
2-methylphenol	112	30-130	ok
bis(2-chloroisopropyl)ether	48.2	40-140	ok
3&4-methylphenol	191	30-130	out
n-nitrosodi-n-propylamine	74.0	40-140	ok
hexachloroethane	114	40-140	ok
nitrobenzene	101	40-140	ok
isophrone	110	40-140	ok
2-nitrophenol	116	30-130	ok
2,4-dimethylphenol	82.3	30-130	ok
benzoic acid	23.9	30-130	out
bis(2-chloroethoxy)methane	120	40-140	ok
2,4-dichlorophenol	117	30-130	ok
1,2,4-trichlorobenzene	112	40-140	ok
napthalene	82.2	40-140	ok
4-chloroaniline	46.1	40-140	ok
hexachlorobutadiene	90.8	40-140	ok
4-chloro-3-methylphenol	112	30-130	ok
2-methylnapthalene	92.0	40-140	ok
aniline	43.9	40-140	ok
hexachlorocyclopentadiene	68.9	40-140	ok
2,4,6-trichlorophenol	104	30-130	ok
2,4,5-trichlorophenol	109	30-130	ok
2-chloronapthalene	105	40-140	ok
2-nitroaniline	57.5	40-140	ok
dimethylphthalate	106	40-140	ok
acenapthylene	85.3	40-140	ok
2,6-dinitrotoluene	145	40-140	out
3-nitroaniline	69.9	40-140	ok
acenaphthene	90.0	40-140	ok
2,4-dinitrophenol	89.7	30-130	ok
dibenzofuran	109	40-140	ok
4-nitrophenol	170	30-130	out
2,4-dinitrotoluene	117	40-140	ok
diethylphthalate	110	40-140	ok
fluorene	82.8	40-140	ok
4-chlorophenyl phenyl ether	100	40-140	ok
4-nitroaniline	104	40-140	ok
4,6-dinitro-2-methylphenol	98.0	30-130	ok
n-nitrosodiphenylamine	114	40-140	ok
4-bromophenyl phenyl ether	78.8	40-140	ok
hexachlorobenzene	71.4	40-140	ok
pentachlorophenol	74.1	30-130	ok
phenanthrene	89.0	40-140	ok
anthracene	89.5	40-140	ok
carbazole	128	40-140	ok
di-n-butylphthalate	122	40-140	ok
fluoranthene	85.0	40-140	ok
benzidine	0.00	40-140	out
pyrene	87.3	40-140	ok
butylbenzylphthalate	110	40-140	ok
benz [a] anthracene	80.7	40-140	ok
3,3'-dichlorobenzidine	106	40-140	ok
chrysene	98.4	40-140	ok
bis(2-ethylhexyl)phthalate	133	40-140	ok
di-n-octylphthalate	140	40-140	out
benzo [b] fluoranthene	79.5	40-140	ok
benzo [k] fluoranthene	79.0	40-140	ok
benzo [a] pyrene	81.1	40-140	ok
indeno [1,2,3-cd] pyrene	64.3	40-140	ok
dibenz [a,h] anthracene	54.8	40-140	ok
benzo [ghi] perylene	62.1	40-140	ok

CAM criteria allows 15% of analytes to exceed criteria.

Surrogates:	**Recovery (%)**	**Acceptance Limits**	**Verdict**
2-FLUOROPHENOL	16.3	30-130	out
PHENOL-D6	64.2	30-130	ok
2-CHLOROPHENOL-D4	76.2	30-130	ok
1,2-DICHLOROBENZENE-D4	89.1	30-130	ok
NITROBENZENE-D5	93.5	30-130	ok
2-FLUOROBIPHENYL	84.7	30-130	ok
2,4,6-TRIBROMOPHENOL	62.8	30-130	ok
p-TERPHENYL-D14	70.9	30-130	ok

Report generated: 3/29/05 2:46 PM

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

CHAIN-OF-CUSTODY RECORD

W.O. # 0503-00126 (for lab use only)

Sample I.D.	Date/Time Sampled (Very Important)	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., Other (specify))	WW ONLY: DpH, Cond., GC Screen (VOA), 624.2, 624, 601, 602, 625, Formaldehyde	ANALYSIS REQUIRED: 8260 TCL, 8021, 8021 - "8010" List, 8021 "8020" List, 8270 PAH, 8270 TCL, 8082-PCBs Only, 8081 - Pest Only, TPH-GC (Mod. 8100), TPH-GC w/FING, EPH (MA DEP), VPH (MA DEP), TCLP (Spec. Below), Filtering (✓ if requested), Metals PP13, R-8, Metals (List Below)	Total # of Cont.	Note #
GUNNER-2	3/18/05 1530	S		X, X, X, X	3	1,2,3
PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*						
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)*						

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
	3/18/05	UPS
UPS		
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
		3/22/05 0940
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

1). TCL VOLATILES, TCL-SEMI-VOLATILES, TAL METALS REPORT TO LOWEST DETECTION LIMITS FOR NYS GUIDELINES.

2). PLEASE RETURN COOLER.

3). PLEASE SUB-OUT "CN, NA, K" TO RHODE ISLAND LAB. CA 6411

716-685-2800

PROJECT MANAGER: BART KLETTKE & John Beninati EXT: 3310

DATA REPORT ☑ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State

LAB USE:

TURNAROUND TIME: (Standard) Rush ___ Days, Approved by: ___ TEMP. OF COOLER 4.4 °C

3/22/05 0940 LG

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

GZA FILE NO: 21.0055811.00 P.O. NO. ___

PROJECT TIFFT + HOPKINS SITE

LOCATION BUFFALO, N.Y.

COLLECTOR(S) TODD SCHULA SHEET 1 OF 1

GZAP003

PARSONS

180 Lawrence Bell Drive, Suite 104 • Williamsville, New York 14221 • (716) 633-7074 • Fax: (716) 633-7195 • www.parsons.com

May 14, 2005

Mr. Jeff Dunn
Tug Hill Construction
40 Pine Street
Lockport, NY 14094

RE: Tifft and Hopkins Site
Submittal No. 02223-5 (1.03 A1&A2)
Chemical Testing Results – Gunner Gravel

Dear Mr. Dunn:

Parsons has reviewed Submittal No.02223-5 (1.03 A1&A2) Chemical Testing Results – Gunner Gravel Unclassified fill

This submittal meets the requirement in the Remedial Construction Work Plan. The Gunner Gravel is approved for use as unclassified fill.

If you have any questions or require additional information, please feel free to me at (716) 633-7074.

Sincerely,

Jeffrey Poulsen

cc: Christopher Burns (Clough Harbour)
Bob Jackson (Parsons at Honeywell)
File (440707 No.17i)

LETTER OF TRANSMITTAL

16

TUG HILL Construction, Inc.
ENVIRONMENTAL EARTHWORK CONTRACTORS

40 Pine Street
Lockport, New York 14094
Tel: (716) 433-6606
Fax: (716) 433-6607

DATE:	May 13, 2005
PROJECT:	HONEYWELL - TIFFT & HOPKINS PROJECT
ATTENTION:	Jeff Poulsen

TO:

Parsons

180 Lawrence Bell Dr. - Suite 100

Williamsville, NY 14221

RE: Submittal No - 02223-5 (1.03 A1 & A2)

We are sending you:

- [X] Attached
- [ ] Delivered by Hand
- [ ] via Overnight
- [ ] Prints
- [ ] Copy of Letter
- [ ] Plans
- [ ] Specifications
- [ ] Shop Drawings
- [ ] Samples
- [X] Submittals
- [ ] Other _____

COPIES	DATE	NO.	DESCRIPTION
4	3/29/2005		Chemical Testing Results - Gunner Gravel Unclass. Fill

- [X] For your use
- [ ] Approval as noted
- [ ] Return ___ corrected prints
- [X] For approval
- [ ] Approved for construction
- [ ] For bids due _____
- [X] As requested
- [ ] Returned for corrections
- [ ] Submit ___ copies for
- [ ] For review/distribution
- [ ] Returned after loan to us
- [ ] Re-submit ___ copies for
- [ ] Other _____

Remarks

Jeff, these analytical results are for up to 30,000 cy's of material from the Gunner Gravel source for the above mentioned project. Please review/ comment and contact me if you have any questions.

If enclosures are not as indicated,

please notify us at once.

Signed: _____

Jeff Dunn, Project Controls Engineer

Analytical Testing Results Summary for Unclassified Fill Sample
Taken From Gunner Gravel Source

Tifft and Hopkins Site
Buffalo, New York

Parameter	Recommended Soil Cleanup Objective ppm	Eastern USA Background ppm	Gunner-3 ppm
VOC - EPA Method 8260 (ppm)			
No Compounds Detected		N/A	N/D
SVOC - EPA Method 8270 (ppm)			
No Compounds Detected		N/A	N/D
TAL Metals including Cyanide and Mercury - EPA Methods 6010 and 7174 A (ppm)			
Aluminum	SB	33,000	8810
Arsenic	7.5 or SB	3-12	10.9
Barium	300 or SB	15-600	48.7
Cadmium	1 or SB	0.1 - 1	0.342
Calcium	SB	130-35,000	**35,400**
Chromium	10 or SB	1.5-40	12.5
Cobalt	30 or SB	2.5-60	6.69
Copper	25 or SB	1-50	35.7
Iron	2000 or SB	2000-550,000	21,700
Lead	SB	See Note 5	12.8
Magnesium	SB	100-5000	**10,600**
Manganese	SB	50-5000	370
Nickel	13 or SB	0.5-25	22.1
Potassium	SB	8500-43,000	840
Vanadium	150 or SB	1-300	20.9
Zinc	20 or SB	9-50	**93.5**

Notes:

1. Only compounds detected are presented on this table. Refer to original data sheets for list of all compounds included in analysis.
2. Analytical testing completed by GZA GeoEnvironmental Laboratories, Inc.
3. Recommended soil cleanup objectives are based on the Division Technical and Administrative Guidance Memorandum (TAGM) 4046 on Determination of Soil Cleanup Objectives and Cleanup Levels in its final form.
4. ND = not detected, NA = not available
5. Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.
6. mg/kg = ppm

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: MA092 NH: 2028
CT: PH0579 RI: LAO00236
NELAC - NYS DOH: 11063

ANALYTICAL DATA REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225
(716)685-2300
Bart Klettke

Project No.: 21.0055814.00
Work Order No.: 0504-00205
Date Received: 4/28/05
Date Reported: 5/12/05

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
4/26/2005	Solid	0504-00205 001	GUNNER-3
4/26/2005	Solid	0504-00205 002	NIAGARA FALLS-1

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 4/28/05
Date Reported: 5/12/05
Work Order No.: 0504-00205

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 04/28/05 via __GZA courier, _x_UPS, __FEDEX, or ___hand delivered. The temperature of the __temperature blank/_x_cooler air, was 6.1 degrees C. The samples were received intact for all requested analyses.

The samples were appropriately preserved in accordance with the method they reference. The VOC samples were preserved in methanol upon receipt at the laboratory.

2. Subcontracted Analyses

* Analyses were subcontracted to RIAL on 04/28/05.

Certification MA: MA-RI015, NH: 253700 A&B, CT: PH-0508, ME: RI015, RI: RI-033, NY:11726,

3. EPA Method 6010B/7471A - Metals

The Mercury analysis for sample Gunner-3 was re-assigned on 05/06/05 (KW per B. Klettke)

Attach QC 6010B 04/30/05 - Solid
Attach QC Mercury 05/12/05 - Solid

4. EPA Method 8260 - VOCs

Attach QC 8260 05/03/05 - Solid

The above samples have been evaluated for the presence of the target analytes at levels between the reporting (quantitation) limit and the method detection limit (MDL) and are reported, when detected, as estimated concentrations (J).

5. EPA Method 8270 - SVOCs

Attach QC 8270 04/29/05 - Solid

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 4/28/05
Date Reported: 5/12/05
Work Order No.: 0504-00205

Data Authorized By: _____

% R = % Recovery
DF = Dilution Factor
DFS = Dilution Factor Solids
DO = Diluted Out

Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

The laboratory report shall not be reproduced except in full without the written consent of the laboratory.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per each method and are reported at the end of the analytical report if assigned on the chain of custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

ANALYTICAL REPORT

Alltift Landfill
364 Nagel Drive
Buffalo, NY 14225

Bart Klettke

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Date Received: 4/28/05
Date Reported: 5/12/05
Work Order No.: 0504-00205

Sample ID: GUNNER-3
Sample Date: 4/26/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	5/03/05
Dichlorodifluoromethane	EPA 8260	<140	ug/kg	MQS	5/03/05
Chloromethane	EPA 8260	<140	ug/kg	MQS	5/03/05
Vinyl Chloride	EPA 8260	<70	ug/kg	MQS	5/03/05
Bromomethane	EPA 8260	<140	ug/kg	MQS	5/03/05
Chloroethane	EPA 8260	<70	ug/kg	MQS	5/03/05
Trichlorofluoromethane	EPA 8260	<140	ug/kg	MQS	5/03/05
Diethylether	EPA 8260	<70	ug/kg	MQS	5/03/05
Acetone	EPA 8260	<700	ug/kg	MQS	5/03/05
1,1-Dichloroethene	EPA 8260	<70	ug/kg	MQS	5/03/05
Dichloromethane	EPA 8260	<70	ug/kg	MQS	5/03/05
Methyl-Tert-Butyl-Ether	EPA 8260	<70	ug/kg	MQS	5/03/05
trans-1,2-Dichloroethene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,1-Dichloroethane	EPA 8260	<70	ug/kg	MQS	5/03/05
2-Butanone	EPA 8260	<700	ug/kg	MQS	5/03/05
2,2-Dichloropropane	EPA 8260	<70	ug/kg	MQS	5/03/05
cis-1,2-Dichloroethene	EPA 8260	<70	ug/kg	MQS	5/03/05
Chloroform	EPA 8260	<70	ug/kg	MQS	5/03/05
Bromochloromethane	EPA 8260	<70	ug/kg	MQS	5/03/05
Tetrahydrofuran	EPA 8260	<140	ug/kg	MQS	5/03/05
1,1,1-Trichloroethane	EPA 8260	<70	ug/kg	MQS	5/03/05
1,1-Dichloropropene	EPA 8260	<70	ug/kg	MQS	5/03/05
Carbon Tetrachloride	EPA 8260	<70	ug/kg	MQS	5/03/05
1,2-Dichloroethane	EPA 8260	<70	ug/kg	MQS	5/03/05
Benzene	EPA 8260	<70	ug/kg	MQS	5/03/05
Trichloroethene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,2-Dichloropropane	EPA 8260	<70	ug/kg	MQS	5/03/05
Bromodichloromethane	EPA 8260	<70	ug/kg	MQS	5/03/05
Dibromomethane	EPA 8260	<70	ug/kg	MQS	5/03/05
4-Methyl-2-Pentanone	EPA 8260	<140	ug/kg	MQS	5/03/05
cis-1,3-Dichloropropene	EPA 8260	<70	ug/kg	MQS	5/03/05
Toluene	EPA 8260	<70	ug/kg	MQS	5/03/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0504-00205

Sample ID: GUNNER-3
Sample Date: 4/26/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
trans-1,3-Dichloropropene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,1,2-Trichloroethane	EPA 8260	<70	ug/kg	MQS	5/03/05
2-Hexanone	EPA 8260	<140	ug/kg	MQS	5/03/05
1,3-Dichloropropane	EPA 8260	<70	ug/kg	MQS	5/03/05
Tetrachloroethene	EPA 8260	<70	ug/kg	MQS	5/03/05
Dibromochloromethane	EPA 8260	<70	ug/kg	MQS	5/03/05
1,2-Dibromoethane (EDB)	EPA 8260	<140	ug/kg	MQS	5/03/05
Chlorobenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,1,1,2-Tetrachloroethane	EPA 8260	<70	ug/kg	MQS	5/03/05
Ethylbenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
m&p-Xylene	EPA 8260	<70	ug/kg	MQS	5/03/05
o-Xylene	EPA 8260	<70	ug/kg	MQS	5/03/05
Styrene	EPA 8260	<70	ug/kg	MQS	5/03/05
Bromoform	EPA 8260	<140	ug/kg	MQS	5/03/05
Isopropylbenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,1,2,2-Tetrachloroethane	EPA 8260	<70	ug/kg	MQS	5/03/05
1,2,3-Trichloropropane	EPA 8260	<70	ug/kg	MQS	5/03/05
Bromobenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
n-Propylbenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
2-Chlorotoluene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,3,5-Trimethylbenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
4-Chlorotoluene	EPA 8260	<70	ug/kg	MQS	5/03/05
tert-Butylbenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,2,4-Trimethylbenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
sec-Butylbenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
p-Isopropyltoluene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,3-Dichlorobenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,4-Dichlorobenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
n-Butylbenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,2-Dichlorobenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,2-Dibromo-3-Chloropropane	EPA 8260	<350	ug/kg	MQS	5/03/05
1,2,4-Trichlorobenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
Hexachlorobutadiene	EPA 8260	<70	ug/kg	MQS	5/03/05
Naphthalene	EPA 8260	<70	ug/kg	MQS	5/03/05
1,2,3-Trichlorobenzene	EPA 8260	<70	ug/kg	MQS	5/03/05
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	102	% R	MQS	5/03/05
***Toluene-D8	EPA 8260	97.9	% R	MQS	5/03/05
***4-Bromofluorobenzene	EPA 8260	97.5	% R	MQS	5/03/05
Preparation	EPA 5035	1.0	DF	MQS	5/03/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0504-00205

Sample ID: GUNNER-3
Sample Date: 4/26/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	5/02/05
Phenol	EPA 8270	<330	ug/kg	CMG	5/02/05
2-Chlorophenol	EPA 8270	<330	ug/kg	CMG	5/02/05
2-Methylphenol	EPA 8270	<330	ug/kg	CMG	5/02/05
3&4-Methylphenol	EPA 8270	<330	ug/kg	CMG	5/02/05
2-Nitrophenol	EPA 8270	<330	ug/kg	CMG	5/02/05
2,4-Dimethylphenol	EPA 8270	<330	ug/kg	CMG	5/02/05
Benzoic Acid	EPA 8270	<3300	ug/kg	CMG	5/02/05
2,4-Dichlorophenol	EPA 8270	<330	ug/kg	CMG	5/02/05
4-Chloro-3-Methylphenol	EPA 8270	<660	ug/kg	CMG	5/02/05
2,4,6-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	5/02/05
2,4,5-Trichlorophenol	EPA 8270	<330	ug/kg	CMG	5/02/05
2,4-Dinitrophenol	EPA 8270	<3300	ug/kg	CMG	5/02/05
4-Nitrophenol	EPA 8270	<1700	ug/kg	CMG	5/02/05
4,6-Dinitro-2-Methylphenol	EPA 8270	<1700	ug/kg	CMG	5/02/05
Pentachlorophenol	EPA 8270	<1700	ug/kg	CMG	5/02/05
n-Nitrosodimethylamine	EPA 8270	<330	ug/kg	CMG	5/02/05
bis(2-Chloroethyl)Ether	EPA 8270	<330	ug/kg	CMG	5/02/05
1,3-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	5/02/05
1,4-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	5/02/05
Benzyl Alcohol	EPA 8270	<660	ug/kg	CMG	5/02/05
1,2-Dichlorobenzene	EPA 8270	<330	ug/kg	CMG	5/02/05
bis(2-Chloroisopropyl)Ether	EPA 8270	<330	ug/kg	CMG	5/02/05
n-Nitrosodi-n-Propylamine	EPA 8270	<330	ug/kg	CMG	5/02/05
Hexachloroethane	EPA 8270	<330	ug/kg	CMG	5/02/05
Nitrobenzene	EPA 8270	<330	ug/kg	CMG	5/02/05
Isophorone	EPA 8270	<330	ug/kg	CMG	5/02/05
bis(2-Chloroethoxy)Methane	EPA 8270	<330	ug/kg	CMG	5/02/05
1,2,4-Trichlorobenzene	EPA 8270	<330	ug/kg	CMG	5/02/05
Naphthalene	EPA 8270	<330	ug/kg	CMG	5/02/05
4-Chloroaniline	EPA 8270	<660	ug/kg	CMG	5/02/05
Hexachlorobutadiene	EPA 8270	<330	ug/kg	CMG	5/02/05
2-Methylnaphthalene	EPA 8270	<330	ug/kg	CMG	5/02/05
Hexachlorocyclopentadiene	EPA 8270	<1700	ug/kg	CMG	5/02/05
2-Chloronaphthalene	EPA 8270	<330	ug/kg	CMG	5/02/05
2-Nitroaniline	EPA 8270	<660	ug/kg	CMG	5/02/05
Dimethylphthalate	EPA 8270	<330	ug/kg	CMG	5/02/05
Acenaphthylene	EPA 8270	<330	ug/kg	CMG	5/02/05
2,6-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	5/02/05
3-Nitroaniline	EPA 8270	<660	ug/kg	CMG	5/02/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0504-00205

Sample ID: GUNNER-3
Sample Date: 4/26/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
Acenaphthene	EPA 8270	<330	ug/kg	CMG	5/02/05
Dibenzofuran	EPA 8270	<330	ug/kg	CMG	5/02/05
2,4-Dinitrotoluene	EPA 8270	<330	ug/kg	CMG	5/02/05
Diethylphthalate	EPA 8270	<330	ug/kg	CMG	5/02/05
Fluorene	EPA 8270	<330	ug/kg	CMG	5/02/05
4-Chlorophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	5/02/05
4-Nitroaniline	EPA 8270	<660	ug/kg	CMG	5/02/05
n-Nitrosodiphenylamine	EPA 8270	<330	ug/kg	CMG	5/02/05
4-Bromophenyl Phenyl Ether	EPA 8270	<330	ug/kg	CMG	5/02/05
Hexachlorobenzene	EPA 8270	<330	ug/kg	CMG	5/02/05
Phenanthrene	EPA 8270	<330	ug/kg	CMG	5/02/05
Anthracene	EPA 8270	<330	ug/kg	CMG	5/02/05
Carbazole	EPA 8270	<330	ug/kg	CMG	5/02/05
di-n-Butylphthalate	EPA 8270	<500	ug/kg	CMG	5/02/05
Fluoranthene	EPA 8270	<330	ug/kg	CMG	5/02/05
Pyrene	EPA 8270	<330	ug/kg	CMG	5/02/05
Butylbenzylphthalate	EPA 8270	<330	ug/kg	CMG	5/02/05
Benzo [a] Anthracene	EPA 8270	<330	ug/kg	CMG	5/02/05
3,3'-Dichlorobenzidine	EPA 8270	<660	ug/kg	CMG	5/02/05
Chrysene	EPA 8270	<330	ug/kg	CMG	5/02/05
bis(2-Ethylhexyl)Phthalate	EPA 8270	<330	ug/kg	CMG	5/02/05
di-n-Octylphthalate	EPA 8270	<330	ug/kg	CMG	5/02/05
Benzo [b] Fluoranthene	EPA 8270	<330	ug/kg	CMG	5/02/05
Benzo [k] Fluoranthene	EPA 8270	<330	ug/kg	CMG	5/02/05
Benzo [a] Pyrene	EPA 8270	<330	ug/kg	CMG	5/02/05
Indeno [1,2,3-cd] Pyrene	EPA 8270	<330	ug/kg	CMG	5/02/05
Dibenzo [a,h] Anthracene	EPA 8270	<330	ug/kg	CMG	5/02/05
Benzo [g,h,i] Perylene	EPA 8270	<330	ug/kg	CMG	5/02/05
Surrogates:					
***2-Fluorophenol	EPA 8270	68.4	% R	CMG	5/02/05
***Phenol-D6	EPA 8270	65.5	% R	CMG	5/02/05
***Nitrobenzene-D5	EPA 8270	63.0	% R	CMG	5/02/05
***2-Fluorobiphenyl	EPA 8270	46.1	% R	CMG	5/02/05
***2,4,6-Tribromophenol	EPA 8270	61.2	% R	CMG	5/02/05
***P-Terphenyl-D14	EPA 8270	63.4	% R	CMG	5/02/05
Extraction	EPA 3545	1.0	DF	ARL	4/29/05
METALS-TARGET ANALYTE LIST				AJY	4/30/05
Silver	EPA 6010	<0.300	mg/kg	AJY	4/30/05
Aluminum	EPA 6010	8810	mg/kg	AJY	4/30/05
Arsenic	EPA 6010	10.9	mg/kg	AJY	4/30/05

GZA GeoEnvironmental, Inc.

ANALYTICAL REPORT

Project Name: Alltift Landfill
Project No.: 21.0055814.00

Work Order No.: 0504-00205

Sample ID: GUNNER-3
Sample Date: 4/26/2005

Sample No.: 001

Test Performed	Method	Results	Units	Tech	Analysis Date
Barium	EPA 6010	48.7	mg/kg	AJY	4/30/05
Beryllium	EPA 6010	<0.300	mg/kg	AJY	4/30/05
Calcium	EPA 6010	35400	mg/kg	AJY	4/30/05
Cadmium	EPA 6010	0.342	mg/kg	AJY	4/30/05
Cobalt	EPA 6010	6.69	mg/kg	AJY	4/30/05
Chromium	EPA 6010	12.5	mg/kg	AJY	4/30/05
Copper	EPA 6010	35.7	mg/kg	AJY	4/30/05
Iron	EPA 6010	21700	mg/kg	AJY	4/30/05
Mercury	EPA 7471A	<0.0281	mg/kg	NH	5/12/05
Magnesium	EPA 6010	10600	mg/kg	AJY	4/30/05
Manganese	EPA 6010	370	mg/kg	AJY	4/30/05
Nickel	EPA 6010	22.1	mg/kg	AJY	4/30/05
Lead	EPA 6010	12.8	mg/kg	AJY	4/30/05
Antimony	EPA 6010	<1.50	mg/kg	AJY	4/30/05
Selenium	EPA 6010	<1.50	mg/kg	AJY	4/30/05
Vanadium	EPA 6010	20.9	mg/kg	AJY	4/30/05
Thallium	EPA 6010	<1.50	mg/kg	AJY	4/30/05
Zinc	EPA 6010	93.5	mg/kg	AJY	4/30/05
Metals Preparation	EPA 3051	52.1	DFS	AJY	4/30/05
PERCENT SOLID		86.8	%	TAJ	4/29/05
SUBCONTRACTED ANALYTES					
Sodium	EPA 6010B	<170	mg/kg	XXX	5/04/05
Total Cyanide	EPA 9010A	<11	mg/kg	XXX	5/02/05
Potassium	EPA 6010B	840	mg/kg	XXX	5/04/05

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS
Metals by ICP

QUALITY CONTROL - SOLID

DATE PREPARED: 04/30/2005

QC Sample	Method Blank	Lab Control Sample
Units	mg/kg	% Recovery
Acceptance Limits	Results	80-120%
Analyte		
Silver (Ag)	<0.500	83.1
Aluminum (Al)	<2.500	109
Arsenic (As)	<1.000	89.5
Boron (B)	NA	NA
Barium (Ba)	<0.500	94.3
Beryllium (Be)	<0.500	95.5
Calcium (Ca)	<2.500	92.8
Cadmium (Cd)	<0.500	96.8
Cobalt (Co)	<1.000	103
Chromium (Cr)	<0.500	92.8
Copper (Cu)	<1.500	102
Iron (Fe)	<2.500	97.5
Magnesium (Mg)	<2.500	98.6
Manganese (Mn)	<0.500	99.4
Molybdenum (Mo)	NA	NA
Nickel (Ni)	<1.000	90.0
Lead (Pb)	<1.000	98.2
Antimony (Sb)	<2.500	91.3
Selenium (Se)	<2.500	91.2
Strontium (Sr)	NA	NA
Titanium (Ti)	NA	NA
Thallium (Tl)	<2.500	93.8
Vanadium (V)	<0.500	89.7
Zinc (Zn)	<1.000	98.8

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470/7471 ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - Solid

Date Analyzed: 05/12/2005

QC Sample	Method Blank	Lab Control Sample
Units	mg/kg	% Recovery
Acceptance Limits	Results	80-120%
Analyte		
Mercury (Hg)	<0.030 (Solid)	98.7

Matrix Spike / Duplicate Spike performed as per method an reported if assigned on Chain of Custody.

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8260 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Analyzed:	5/3/2005	
Volatile Organics	Conc. ug/kg	Acceptance Limit
dichlorodifluoromethane	< 250	< 250
chloromethane	< 250	< 250
vinyl chloride	< 250	< 250
bromomethane	< 250	< 250
chloroethane	< 250	< 250
trichlorofluoromethane	< 250	< 250
diethyl ether	< 500	< 500
acetone	< 1300	< 1300
1,1-dichloroethene	< 130	< 130
FREON-113	< 250	< 250
carbon disulfide	< 250	< 250
dichloromethane	< 250	< 250
tert-butyl alcohol (TBA)	< 1300	< 1300
methyl-tert-butyl-ether	< 250	< 250
trans-1,2-dichloroethene	< 130	< 130
1,1-dichloroethane	< 130	< 130
di-isopropyl ether (DIPE)	< 250	< 250
ethyl tert-butyl ether (EtBE)	< 250	< 250
2-butanone	< 1300	< 1300
2,2-dichloropropane	< 130	< 130
cis-1,2-dichloroethene	< 130	< 130
chloroform	< 130	< 130
bromochloromethane	< 130	< 130
tetrahydrafuran	< 750	< 750
1,1,1-trichloroethane	< 130	< 130
1,1-dichloropropene	< 130	< 130
carbon tetrachloride	< 130	< 130
1,2-dichloroethane	< 130	< 130
benzene	< 130	< 130
tert-amyl methyl ether (TAME)	< 250	< 250
trichloroethene	< 130	< 130
1,2-dichloropropane	< 130	< 130
bromodichloromethane	< 130	< 130
1,4-Dioxane	< 2500	< 2500
dibromomethane	< 130	< 130
4-methyl-2-pentanone	< 250	< 250
cis-1,3-dichloropropene	< 130	< 130
toluene	< 130	< 130
trans-1,3-dichloropropene	< 130	< 130
1,1,2-trichloroethane	< 250	< 250
2-hexanone	< 250	< 250
1,3-dichloropropane	< 130	< 130
tetrachloroethene	< 130	< 130
dibromochloromethane	< 130	< 130
1,2-dibromoethane (EDB)	< 130	< 130
chlorobenzene	< 130	< 130
1,1,1,2-tetrachloroethane	< 130	< 130
ethylbenzene	< 130	< 130
1,1,2,2-tetrachloroethane	< 130	< 130
m&p-xylene	< 130	< 130
o-xylene	< 130	< 130
styrene	< 130	< 130
bromoform	< 130	< 130
isopropylbenzene	< 130	< 130
1,2,3-trichloropropane	< 130	< 130
bromobenzene	< 130	< 130
n-propylbenzene	< 130	< 130
2-chlorotoluene	< 130	< 130
1,3,5-trimethylbenzene	< 130	< 130
4-chlorotoluene	< 130	< 130
tert-butyl-benzene	< 130	< 130
1,2,4-trimethylbenzene	< 130	< 130
sec-butyl-benzene	< 130	< 130
p-isopropyltoluene	< 750	< 750
1,3-dichlorobenzene	< 130	< 130
1,4-dichlorobenzene	< 130	< 130
n-butylbenzene	< 130	< 130
1,2-dichlorobenzene	< 130	< 130
1,2-dibromo-3-chloropropane	< 130	< 130
1,2,4-trichlorobenzene	< 130	< 130
hexachlorobutadiene	< 130	< 130
naphthalene	< 130	< 130
1,2,3-trichlorobenzene	< 130	< 130

Laboratory Control Sample

Date Analyzed:	5/3/2005		
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	123	70-130	ok
chloromethane	121	70-130	ok
vinyl chloride	124	70-130	ok
bromomethane	106	70-130	ok
chloroethane	107	70-130	ok
trichlorofluoromethane	126	70-130	ok
diethyl ether	117	70-130	ok
acetone	98.6	70-130	ok
1,1-dichloroethene	119	70-130	ok
FREON-113	114	70-130	ok
carbon disulfide	113	70-130	ok
dichloromethane	103	70-130	ok
tert-butyl alcohol (TBA)	92.5	70-130	ok
methyl-tert-butyl-ether	93.2	70-130	ok
trans-1,2-dichloroethene	108	70-130	ok
1,1-dichloroethane	103	70-130	ok
di-isopropyl ether (DIPE)	95.5	70-130	ok
ethyl tert-butyl ether (EtBE)	99.6	70-130	ok
2-butanone	102	70-130	ok
2,2-dichloropropane	119	70-130	ok
cis-1,2-dichloroethene	115	70-130	ok
chloroform	87.5	70-130	ok
bromochloromethane	98.7	70-130	ok
tetrahydrafuran	78.5	70-130	ok
1,1,1-trichloroethane	108	70-130	ok
1,1-dichloropropene	102	70-130	ok
carbon tetrachloride	103	70-130	ok
1,2-dichloroethane	90.7	70-130	ok
benzene	100	70-130	ok
tert-amyl methyl ether (TAME)	93.3	70-130	ok
trichloroethene	81.5	70-130	ok
1,2-dichloropropane	110	70-130	ok
bromodichloromethane	104	70-130	ok
1,4-Dioxane	101	70-130	ok
dibromomethane	105	70-130	ok
4-methyl-2-pentanone	96.9	70-130	ok
cis-1,3-dichloropropene	103	70-130	ok
toluene	108	70-130	ok
trans-1,3-dichloropropene	98.3	70-130	ok
1,1,2-trichloroethane	99.0	70-130	ok
2-hexanone	94.2	70-130	ok
1,3-dichloropropane	98.0	70-130	ok
tetrachloroethene	104	70-130	ok
dibromochloromethane	98.9	70-130	ok
1,2-dibromoethane (EDB)	98.6	70-130	ok
chlorobenzene	104	70-130	ok
1,1,1,2-tetrachloroethane	101	70-130	ok
ethylbenzene	104	70-130	ok
1,1,2,2-tetrachloroethane	89.1	70-130	ok
m&p-xylene	102	70-130	ok
o-xylene	105	70-130	ok
styrene	105	70-130	ok
bromoform	100	70-130	ok
isopropylbenzene	106	70-130	ok
1,2,3-trichloropropane	94.2	70-130	ok
bromobenzene	101	70-130	ok
n-propylbenzene	104	70-130	ok
2-chlorotoluene	104	70-130	ok
1,3,5-trimethylbenzene	104	70-130	ok
4-chlorotoluene	104	70-130	ok
tert-butyl-benzene	105	70-130	ok
1,2,4-trimethylbenzene	104	70-130	ok
sec-butyl-benzene	107	70-130	ok
p-isopropyltoluene	105	70-130	ok
1,3-dichlorobenzene	104	70-130	ok
1,4-dichlorobenzene	102	70-130	ok
n-butylbenzene	101	70-130	ok
1,2-dichlorobenzene	98.6	70-130	ok
1,2-dibromo-3-chloropropane	95.9	70-130	ok
1,2,4-trichlorobenzene	103	70-130	ok
hexachlorobutadiene	106	70-130	ok
naphthalene	92.1	70-130	ok
1,2,3-trichlorobenzene	98.2	70-130	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits
DIBROMOFLUOROMETHANE	101	70-130
1,2-DICHLOROETHANE-D4	88.9	70-130
TOLUENE-D8	81.9	70-130
4-BROMOFLUOROBENZENE	94.3	70-130
1,2-DICHLOROBENZENE-D4	91.8	70-130

Surrogates:	Recovery (%)	Acceptance Limits	Verdict
DIBROMOFLUOROMETHANE	99.6	70-130	ok
1,2-DICHLOROETHANE-D4	99.1	70-130	ok
TOLUENE-D8	105	70-130	ok
4-BROMOFLUOROBENZENE	101	70-130	ok
1,2-DICHLOROBENZENE-D4	102	70-130	ok

Instrument: HP GC/MS "A"

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted:	04/29/05	
Date Analyzed:	05/02/05	
File Name:	K8034	
Semi-Volatile Organics	**Result**	**Reporting Limit**
n-nitrosodimethylamine	ND	330
pyridine	ND	3300
phenol	ND	330
bis(2-chloroethyl)ether	ND	330
2-chlorophenol	ND	330
1,3-dichlorobenzene	ND	330
1,4-dichlorobenzene	ND	330
benzyl alchohol	ND	660
1,2-dichlorobenzene	ND	330
2-methylphenol	ND	330
bis(2-chloroisopropyl)ether	ND	330
3&4-methylphenol	ND	330
n-nitrosodi-n-propylamine	ND	330
hexachloroethane	ND	330
nitrobenzene	ND	330
isophrone	ND	330
2-nitrophenol	ND	330
2,4-dimethylphenol	ND	330
benzoic acid	ND	330
bis(2-chloroethoxy)methane	ND	330
2,4-dichlorophenol	ND	330
1,2,4-trichlorobenzene	ND	330
napthalene	ND	330
4-chloroaniline	ND	660
hexachlorobutadiene	ND	330
4-chloro-3-methylphenol	ND	660
2-methylnapthalene	ND	330
aniline	ND	330
hexachlorocyclopentadiene	ND	1700
2,4,6-trichlorophenol	ND	330
2,4,5-trichlorophenol	ND	330
2-chloronapthalene	ND	330
2-nitroaniline	ND	1700
dimethylphthalate	ND	330
acenapthylene	ND	330
2,6-dinitrotoluene	ND	330
3-nitroaniline	ND	1700
acenaphthene	ND	330
2,4-dinitrophenol	ND	3300
dibenzofuran	ND	330
4-nitrophenol	ND	1700
2,4-dinitrotoluene	ND	330
diethylphthalate	ND	330
fluorene	ND	330
4-chlorophenyl phenyl ether	ND	330
4-nitroaniline	ND	660
4,6-dinitro-2-methylphenol	ND	1700
n-nitrosodiphenylamine	ND	330
4-bromophenyl phenyl ether	ND	330
hexachlorobenzene	ND	330
pentachlorophenol	ND	1700
phenanthrene	ND	330
anthracene	ND	330
carbazole	ND	330
di-n-butylphthalate	ND	500
fluoranthene	ND	330
benzidine	ND	330
pyrene	ND	330
butylbenzylphthalate	ND	330
benz [a] anthracene	ND	330
3,3'-dichlorobenzidine	ND	660
chrysene	ND	330
bis(2-ethylhexyl)phthalate	ND	330
di-n-octylphthalate	ND	330
benzo [b] fluoranthene	ND	330
benzo [k] fluoranthene	ND	330
benzo [a] pyrene	ND	330
indeno [1,2,3-cd] pyrene	ND	330
dibenz [a,h] anthracene	ND	330
benzo [ghi] perylene	ND	330

Surrogates:	**Recovery (%)**	**Acceptance Limits**
2-FLUOROPHENOL	84.0	30-130
PHENOL-D6	91.7	30-130
2-CHLOROPHENOL-D4	91.8	30-130
1,2-DICHLOROBENZENE-D4	78.1	30-130
NITROBENZENE-D5	89.2	30-130
2-FLUOROBIPHENYL	86.0	30-130
2,4,6-TRIBROMOPHENOL	75.3	30-130
p-TERPHENYL-D14	109	30-130

Report generated: 5/4/05 11:08 AM

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748

EPA Method 8270 Solid Method Blank (MB) and Laboratory Control Sample (LCS) Data

Laboratory Control Sample

Date Extracted:	**04/29/05**		
Date Analyzed:	**05/02/05**		
File Name:	**K8035**		
Spike Concentration = 20ug/L	**% Recovery**	**Acceptance Limits**	**Verdict**
n-nitrosodimethylamine	94.7	40-140	ok
pyridine	80.2	40-140	ok
phenol	93.5	30-130	ok
bis(2-chloroethyl)ether	100	40-140	ok
2-chlorophenol	90.6	30-130	ok
1,3-dichlorobenzene	86.3	40-140	ok
1,4-dichlorobenzene	85.5	40-140	ok
benzyl alchohol	92.7	40-140	ok
1,2-dichlorobenzene	90.4	40-140	ok
2-methylphenol	93.7	30-130	ok
bis(2-chloroisopropyl)ether	100	40-140	ok
3&4-methylphenol	162	30-130	out
n-nitrosodi-n-propylamine	96.5	40-140	ok
hexachloroethane	92.2	40-140	ok
nitrobenzene	97.6	40-140	ok
isophrone	105	40-140	ok
2-nitrophenol	90.3	30-130	ok
2,4-dimethylphenol	90.9	30-130	ok
benzoic acid	64.4	30-130	ok
bis(2-chloroethoxy)methane	98.4	40-140	ok
2,4-dichlorophenol	95.1	30-130	ok
1,2,4-trichlorobenzene	92.9	40-140	ok
napthalene	92.8	40-140	ok
4-chloroaniline	53.0	40-140	ok
hexachlorobutadiene	90.0	40-140	ok
4-chloro-3-methylphenol	98.4	30-130	ok
2-methylnapthalene	101	40-140	ok
aniline	77.7	40-140	ok
hexachlorocyclopentadiene	80.7	40-140	ok
2,4,6-trichlorophenol	91.7	30-130	ok
2,4,5-trichlorophenol	99.1	30-130	ok
2-chloronapthalene	97.2	40-140	ok
2-nitroaniline	105	40-140	ok
dimethylphthalate	105	40-140	ok
acenapthylene	101	40-140	ok
2,6-dinitrotoluene	114	40-140	ok
3-nitroaniline	102	40-140	ok
acenaphthene	87.7	40-140	ok
2,4-dinitrophenol	60.7	30-130	ok
dibenzofuran	88.5	40-140	ok
4-nitrophenol	80.1	30-130	ok
2,4-dinitrotoluene	91.5	40-140	ok
diethylphthalate	92.8	40-140	ok
fluorene	85.4	40-140	ok
4-chlorophenyl phenyl ether	85.1	40-140	ok
4-nitroaniline	94.5	40-140	ok
4,6-dinitro-2-methylphenol	74.6	30-130	ok
n-nitrosodiphenylamine	94.7	40-140	ok
4-bromophenyl phenyl ether	85.9	40-140	ok
hexachlorobenzene	86.4	40-140	ok
pentachlorophenol	97.6	30-130	ok
phenanthrene	98.7	40-140	ok
anthracene	102	40-140	ok
carbazole	146	40-140	out
di-n-butylphthalate	141	40-140	out
fluoranthene	97.2	40-140	ok
benzidine	0.09	40-140	out
pyrene	101	40-140	ok
butylbenzylphthalate	95.7	40-140	ok
benz [a] anthracene	94.6	40-140	ok
3,3'-dichlorobenzidine	81.8	40-140	ok
chrysene	100	40-140	ok
bis(2-ethylhexyl)phthalate	107	40-140	ok
di-n-octylphthalate	111	40-140	ok
benzo [b] fluoranthene	103	40-140	ok
benzo [k] fluoranthene	100	40-140	ok
benzo [a] pyrene	99.1	40-140	ok
indeno [1,2,3-cd] pyrene	97.9	40-140	ok
dibenz [a,h] anthracene	98.6	40-140	ok
benzo [ghi] perylene	97.7	40-140	ok

CAM criteria allows 15% of analytes to exceed criteria.

Surrogates:	**Recovery (%)**	**Acceptance Limits**	**Verdict**
2-FLUOROPHENOL	89.8	30-130	ok
PHENOL-D6	91.4	30-130	ok
2-CHLOROPHENOL-D4	89.7	30-130	ok
1,2-DICHLOROBENZENE-D4	79.4	30-130	ok
NITROBENZENE-D5	88.6	30-130	ok
2-FLUOROBIPHENYL	88.9	30-130	ok
2,4,6-TRIBROMOPHENOL	77.9	30-130	ok
p-TERPHENYL-D14	94.3	30-130	ok

Report generated: 5/4/05 11:06 AM

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

CHAIN-OF-CUSTODY RECORD

W.O. # 0504-00205 (for lab use only)

Sample I.D.	Date/Time Sampled (Very Important)	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., Other (specify))	WW ONLY: ☐pH ☐Cond.	☐GC Screen (VOA)	☐624.2 ☐502.2	624	☐601 ☐602	625	Formaldehyde	ANALYSIS REQUIRED: 8260	8021	8021 - "8010" List	8021 "8020" List	8270 CP-51 ☐PAH ☐BN	8082-PCBs Only	8081 - Pest Only	TPH-GC (Mod. 8100)	TPH-GC w/FING	EPH (MA DEP)	VPH (MA DEP)	TCLP (Spec. Below)	Filtering (✓ if requested)	Metals ☐PPM-13 ☐ R-5	Metals (List Below)					Total # of Cont.	Note #
Guard-3	4-26-05/1300	S								X				X									X					2	1,2
Niagara Falls-1	4-26-05/1400	S								X				X									X					2	1,2
PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*																														
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)*																														

RELINQUISHED BY: Todd Schaum DATE/TIME: 4-27-05/1530 RECEIVED BY: UPS

RELINQUISHED BY: UPS DATE/TIME: 4/28/05 RECEIVED BY: mrd 0715

RELINQUISHED BY: DATE/TIME: RECEIVED BY:

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

1) TCL Volatiles, TCL Semi-Volatiles, TAL Metals report to lowest detection limits for New York State Guidelines

2) Please Return Cooler to: Allied Landfill - GZA 579 Tifft St. Buffalo, NY 14220

PROJECT MANAGER: Bart Klettke 716-685-2300 EXT: 3310

LAB USE:

TURNAROUND TIME: Standard (Rush) 4 Days, Approved by: _____ TEMP. OF COOLER 6.1 °C

DATA REPORT ☑ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State _____

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

ACCREDITED IN ACCORDANCE WITH

GZA FILE NO: 21.0055584.00 P.O. NO. _____

PROJECT Allied Landfill/RAMCO Steel Site

LOCATION Buffalo, N.Y.

COLLECTOR(S) Todd Schaum SHEET 1 OF 1

4/28/05 1005 LR

GZAP003

0504-20

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

GZA GeoEnvironmental Labs
Attn: Ms. Michelle Mirenda
Engineers and Scientists
106 South Street
Hopkinton, MA 01748

Date Received: 04/28/2005
Date Reported: 05/04/2005
P.O. #:
Work Order # 0504-06607

DESCRIPTION: GZA FILE# 21.0055814.0 TASK 4 SUBTASK-1 ALLTIFT LANDFILL

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

enc: Chain of Custody

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

GZA GeoEnvironmental Labs
Date Received: 04/28/2005
Work Order #: 0504-06607

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: GUNNER - 3
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 04/26/2005 @ 13:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<11	11	mg/kg dry	SW-846 9010A	05/02/2005	EC
TOTAL METALS						
POTASSIUM	840	57	mg/kg dry	SW-846 6010	05/04/2005	JNB
SODIUM	<170	170	mg/kg dry	SW-846 6010	05/04/2005	JNB

Sample # 002
SAMPLE DESCRIPTION: NIAGARA FALLS - 1
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 04/26/2005 @ 14:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOTAL CYANIDE	<12	12	mg/kg dry	SW-846 9010A	05/02/2005	EC
TOTAL METALS						
POTASSIUM	650	62	mg/kg dry	SW-846 6010	05/04/2005	JNB
SODIUM	<180	180	mg/kg dry	SW-846 6010	05/04/2005	JNB

WHITE COPY - Original YELLOW COPY - Lab Files PINK COPY - Project Manager

W.O. # 0504-205 (for lab use only)

CHAIN-OF-CUSTODY RECORD

Sample I.D.	Date/Time Sampled (Very Important)	Matrix A=Air S=Soil GW=Ground W. SW=Surface W. WW=Waste W. DW=Drinking W. Other (specify)	WW ONLY: Opt. COnnt.	GC Screen (VOA)	CSIA.2 CIR02.2	624	CIB01 CB02	625	Formaldehyde	ANALYSIS REQUIRED: 8260	8021	8021 - "8010" List	8021 "8020" List	8270 CRwt CRWI CBWI CBN	8082-PCBs Only	8081 - Pest Only	TPH-GC (Mod. 8100)	TPH-GC w/FING	EPH (MA DEP)	VPH (MA DEP)	TCLP (Spec. Below)	Filtering (✓ if requested)	Metals CRPMs-10 ☐ R-8	Metals (List Below)					Total # of Cont.	Note #
Gunner-3	4-26-05/1300	S																					X					1	1,2
Niagara Falls-1	4-26-05/1400	S																					X					1	
PRESERVATIVE (Cl - HCl, M=MeOH, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*																													
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)*																													

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
VIA UPS	4/29/05 1200	L R Ray
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES: Preservatives, special reporting limits, known contamination, additional testing parameters, etc.:

1) Cyanide, Sodium & Potassium Only

2) Please Return Cooler to: Allied Landfill - GZA
579 Tifft St.
Buffalo, NY 14220
0504-06607

PROJECT MANAGER: Bart Kletke 716-685-2300 EXT: 3310

LAB USE:

TURNAROUND TIME: Standard (Rush) 4 Days, Approved by:_____ TEMP. OF COOLER 9.8 °C

DATA REPORT ☑ PDF (Adobe) ☐ ASCII ☐ EXCEL Specify State_____

GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS
106 South Street
Hopkinton, MA 01748
(508) 435-9244
FAX (508) 435-9912

USED IN ACCORDANCE WITH

GZA FILE NO: 21.0055814.0 Subtask-1 Task-4 P.O. NO._____

PROJECT Allied Landfill/RAMCO Steel Site

LOCATION Buffalo, N.Y. 14220

COLLECTOR(S) Todd Schaefer SHEET 1 OF 1

PARSONS

180 Lawrence Bell Drive, Suite 104 • Williamsville, New York 14221 • (716) 633-7074 • Fax: (716) 633-7195 • www.parsons.com

March 23, 2005

Mr. Jeff Dunn
Tug Hill Construction
40 Pine Street
Lockport, NY 14094

RE: Tifft and Hopkins Site
Submittal No. 02421-1 (1.04A)
Geotextiles

Dear Mr. Dunn:

Parsons has reviewed Submittal No.02421-1 (1.04 A) Geotextiles.

In our opinion, this submittal does not meet the requirements of the February 2005 Remedial Action Work Plan, however the material selected is suitable for the intended purpose. A field change has been approved by Honeywell and the NYSDEC to accommodate your request (attached).

This material is approved for use as reinforcing geotextile in accordance with the project specifications.

If you have any questions or require additional information, please feel free to me at (716) 633-7074.

Sincerely,

Jeffrey Poulsen

cc: Christopher Burns (Clough Harbour)
Bob Jackson (Parsons at Honeywell)
File (440707 No.17i)

LETTER OF TRANSMITTAL

8

TUG HILL Construction, Inc.
ENVIRONMENTAL EARTHWORK CONTRACTORS

40 Pine Street
Lockport, New York 14094
Tel: (716) 433-6606
Fax: (716) 433-6607

DATE:	March 17, 2005
PROJECT:	HONEYWELL - TIFFT & HOPKINS PROJECT
ATTENTION:	Jeff Poulsen

TO:

Parsons

180 Lawrence Bell Dr. - Suite 100

Williamsville, NY 14221

RE: Submittal No - 02421-1 (1.04 A)

We are sending you:

- [X] Attached
- [X] Delivered by Hand
- [ ] via Overnight
- [ ] Prints
- [ ] Copy of Letter
- [ ] Plans
- [ ] Specifications
- [ ] Shop Drawings
- [ ] Samples
- [X] Submittals
- [ ] Other _____

COPIES	DATE	NO.	DESCRIPTION
4			Reinforced Geotextile Cut Sheet (Carthage Mills FX 66)
4			Carthage Mills FX 66 Geotextile Samples

- [X] For your use
- [X] For approval
- [X] As requested
- [ ] For review/distribution
- [ ] Other _____
- [ ] Approval as noted
- [ ] Approved for construction
- [ ] Returned for corrections
- [ ] Returned after loan to us
- [ ] Return ___ corrected prints
- [ ] For bids due _____
- [ ] Submit ___ copies for
- [ ] Re-submit ___ copies for

Remarks

Jeff, the material submitted is a substitute for the specified geotextile. This substitute material has been previously approved for the same application at the Honeywell - Alltift Site. Please review/ comment and contact me if you have any questions.

If enclosures are not as indicated,

please notify us at once.

Signed: _____

Jeff Dunn, Project Controls Engineer

Carthage Mills

"Since 1958 – America's First Geotextile Company"

Product Data Sheet

FX™-66

Carthage Mills' FX™-66 is a woven slit film geotextile of 100% polypropylene yarns. This product features high tensile strengths at low elongations (high modulus) making it ideal for soil separation and stabilization applications.

AASHTO M-288-00: FX™-66 exceeds the geotextile requirements for *Separation*/Class 2 and *Stabilization*/Classes 1 and 2.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
☐ **Mechanical**			
Grab Tensile	ASTM D 4632	1400 N	315 lbs
Grab Tensile Elongation		15%	
Wide Width Tensile	ASTM D 4595	30.6 x 35.0 kN/m	175 x 200 lbs/in 2100 x 2400 lbs/ft
Wide Width Elongation		10 x 8%	
Mullen Burst	ASTM D 3786	4475 kPa	650 psi
Puncture	ASTM D 4833	555 N	125 lbs
Trapezoidal Tear	ASTM D 4533	530 N	120 lbs
☐ **Endurance**			
UV Resistance	ASTM D 4355	90% @ 500 hrs	
☐ **Hydraulics / Filtration**			
Apparent Opening Size (AOS)	ASTM D 4751	0.212 mm	70 US Std. Sieve
Percent Open Area	CW-02215	< 1%	
Permittivity	ASTM D 4491	0.06 sec^{-1}	
Permeability		.003 cm/sec	
Flow Rate		204 l/min/m^2	5 gpm/ft^2
☐ **Physical / Dimensional**			
Mass Per Unit Area	ASTM D 5261	220 g/m^2	6.5 oz/yd^2
Standard Roll Sizes / Packaging (Special sizes, packaging and fabrication are available.)	Measured (Typical)	3.81 m x 109.73 m 418 m^2 111 kg 33.0 cm diameter	12.5 ft x 360 ft 500 yd^2 245 lbs 13 in. diameter
		4.57 m x 91.44 m 418 m^2 115 kg 30.5 cm diameter	15.0 ft x 300 ft 500 yd^2 253 lbs 12 in. diameter
		5.33 m x 78.64 m 418 m^2 115 kg 27.9 cm diameter	17.5 ft x 258 ft 500 yd^2 253 lbs 11 in. diameter

☐ Unless otherwise noted, all properties reported are Minimum Average Roll Values (MARV), and are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.

☐ The properties reported above are effective 09/18/03 and are subject to change without notice.

Seller makes no warranty, expressed or implied, concerning the product furnished hereunder other than at the time of delivery it shall be of the quality and specification stated herein. Any implied warranty of fitness for a particular purpose is expressly excluded, and, to the extent that it is contrary to the foregoing sentence, any implied warranty of merchantability is expressly excluded. Any recommendations made by seller concerning the uses or applications of said product are believed reliable and seller makes no warranty of results to be obtained. If the product does not meet Carthage Mills current published specifications, and the customer gives notice to Carthage Mills before installing the product, then Carthage Mills will replace the product without charge or refund the purchase price.

4243 Hunt Road • Cincinnati, Ohio 45242 • 513-794-1600 • 800-543-4430 • 513-794-3434 FAX

PARSONS

180 Lawrence Bell Drive, Suite 104 • Williamsville, New York 14221 • (716) 633-7074 • Fax: (716) 633-7195 • www.parsons.com

April 8, 2005

Mr. Jeff Dunn
Tug Hill Construction
40 Pine Street
Lockport, NY 14094

RE: Tifft and Hopkins Site
Submittal No. 02501-1 (1.06B)
Subbase

Dear Mr. Dunn:

Parsons has reviewed Submittal No.02501-1 (1.06B) – Item No. 304.12 type 2 Subbase Gradation From Buffalo Crushed Stone.

In our opinion, this submittal does meet the requirements of the February 2005 Remedial Action Work Plan.

This material is approved for use in accordance with the project specifications.

If you have any questions or require additional information, please feel free to me at (716) 633-7074.

Sincerely,

Jeffrey Poulsen

cc: Christopher Burns (Clough Harbour)
Tim Metcalf (Honeywell)
Bob Jackson (Parsons at Honeywell)
File (440707 No.17i)

LETTER OF TRANSMITTAL

TUG HILL Construction, Inc.
ENVIRONMENTAL EARTHWORK CONTRACTORS

40 Pine Street
Lockport, New York 14094
Tel: (716) 433-6606
Fax: (716) 433-6607

10

DATE:	March 31, 2005
PROJECT:	HONEYWELL - TIFFT & HOPKINS PROJECT
ATTENTION:	Jeff Poulsen

TO:

Parsons

180 Lawrence Bell Dr. - Suite 100

Williamsville, NY 14221

RE: Submittal No - 02501-1 (1.06 B)

We are sending you:

- [X] Attached
- [X] Delivered by Hand
- [ ] via Overnight
- [ ] Prints
- [ ] Copy of Letter
- [ ] Plans
- [ ] Specifications
- [ ] Shop Drawings
- [ ] Samples
- [X] Submittals
- [ ] Other _____

COPIES	DATE	NO.	DESCRIPTION
4	03/31/05		Item No. 304.12 Type 2 Subbase Gradation From Buffalo Crushed Stone

- [X] For your use
- [X] For approval
- [X] As requested
- [ ] For review/distribution
- [ ] Other _____
- [ ] Approval as noted
- [ ] Approved for construction
- [ ] Returned for corrections
- [ ] Returned after loan to us
- [ ] Return ___ corrected prints
- [ ] For bids due _____
- [ ] Submit ___ copies for
- [ ] Re-submit ___ copies for

Remarks

Jeff, the material submitted is for the gravel pavement material needed at the Tifft / Hopkins Site. Please review/ comment and contact me if you have any questions.

If enclosures are not as indicated,

please notify us at once.

Signed: _____

Jeff Dunn, Project Controls Engineer

BUFFALO CRUSHED STONE, INC.
Subsidiary of New Enterprise Stone & Lime Co., Inc.
2544 Clinton St. · P.O. Box 710 · Buffalo, NY 14224 · (716) 826-7310 · FAX (716) 826-1342

March 31, 2005

Mr. Jeff Dunn
Tug Hill Construction, Inc.
870 Arsenal Street
Watertown, New York 13601

Re: All Tifft Landfill

Dear Jeff:

We certify the aggregates we supply on the subject project meet the New York State Department of Transportation Specification and Gradations as follows:

Item 304.12 Type 2 Subbase

Sieve Size	Percent Passing
2"	100
¼"	25-60
No. 40	5-40
No. 200	0-10

Our New York State Source Number at the Wehrle Drive plant is 5-3R.

We trust this meets with your approval.

Very truly yours,

Curt Resetarits

CR:afa

Curt Resetarits
Account Representative

PARSONS

180 Lawrence Bell Drive, Suite 104 • Williamsville, New York 14221 • (716) 633-7074 • Fax: (716) 633-7195 • www.parsons.com

May 11, 2005

Mr. Jeff Dunn
Tug Hill Construction
40 Pine Street
Lockport, NY 14094

RE: Tifft and Hopkins Site
Submittal No. 02830-1a (1.02)
Chain Link Fence

Dear Mr. Dunn:

Parsons has reviewed Submittal No.02830-1a (1.02) – Chain Link Fencing Detail and Product Data from Sharon Metal Fence.

This Submittal requests a substitution. In order to meet the desired schedule, aluminum stock is being substituted for the galvanized fencing fabric previously approved. This substitution is approved in accordance with the February 2005 Remedial Action Work Plan. We understand the approval of the use of this product will not have any cost implications to Honeywell.

If you have any questions or require additional information, please feel free to me at (716) 633-7074.

Sincerely,

Jeffrey Poulsen (dgm)

Jeffrey Poulsen

cc: Christopher Burns (Clough Harbour)
Tim Metcalf (Honeywell)
Tom Andrews (Parsons)
File (440707 No.17i)

440701 TH

LETTER OF TRANSMITTAL

15

TUG HILL Construction, Inc.
ENVIRONMENTAL EARTHWORK CONTRACTORS

40 Pine Street
Lockport, New York 14094
Tel: (716) 433-6606
Fax: (716) 433-6607

DATE:	May 9, 2005
PROJECT:	HONEYWELL - TIFFT & HOPKINS PROJECT
ATTENTION:	Jeff Poulsen

TO:

Parsons

180 Lawrence Bell Dr. - Suite 100

Williamsville, NY 14221

RE: Submittal No - 02830-1a (1.02)

We are sending you:

- [X] Attached
- [ ] Delivered by Hand
- [ ] via Overnight
- [ ] Prints
- [ ] Copy of Letter
- [ ] Plans
- [ ] Specifications
- [ ] Shop Drawings
- [ ] Samples
- [X] Submittals
- [ ] Other _____

COPIES	DATE	NO.	DESCRIPTION
4	5/6/2005		Chain Link Fabric Product Data From Sharon Metal Fence

- [X] For your use
- [X] For approval
- [X] As requested
- [ ] For review/distribution
- [ ] Other _____
- [ ] Approval as noted
- [ ] Approved for construction
- [ ] Returned for corrections
- [ ] Returned after loan to us
- [ ] Return ___ corrected prints
- [ ] For bids due _____
- [ ] Submit ___ copies for
- [ ] Re-submit ___ copies for

Remarks

Jeff, this aluminum fabric being submitted is in lieu of the galvinized fabric previously submitted. Please review/ comment and contact me if you have any questions

If enclosures are not as indicated,

please notify us at once.

Signed: _____

Jeff Dunn, Project Controls Engineer

SHARON METAL FENCE CO.

100 Council Avenue
Wheatland, PA 16161

Phone (724) 981-6050 Fax (724) 346-0234

FAX TRANSMITTAL

To	**Jeff**	Date	5/6/2005
	Tug Hill	From	Joe McCleery
	Address1	Phone	Phone
	City, State ZIP	Fax	(716) 433-6607

This is page one of 3 pages.

Subject Requesting a substitution in materials.

Fabric specified: 2" x 9Ga x 72" Galvanized 2oz. Per ASTM A-392 Class 2.

Would like to replace this item with: 2" x 9ga x 72" Aluminized coated Per ASTM A-491.

Aluminized specifications are included with fax.

Reason for request: 2 oz galv. Wire will have a lead time of 3-4 weeks and the Aluminized fabric is in stock.

Sincerely: Joe McCleery

Aluminum Coated Steel Chain Link Fence Fabric
ASTM A 491, Federal specification RR-F-191 Type II, AASHTO M-181 Type II

Merchants Metals Spec Tech

1. PRODUCT NAME

Aluminum Coated Steel Chain Link Fence Fabric

2. MANUFACTURER

Merchants Metals Manufacturing Locations:

Whittier, CA 90608
12482 East Putnam Street
Phone: (800) 336-2396
Fax: (562) 696-9604

New Paris, IN 46553
71347 County Road 23
Phone: (800) 831-4060
Fax: (219) 831-3515

Westfield, MA 01085
24 Fowler Street Extension
Phone: (800) 447-5713
Fax: (413) 572-3706

Statesville, NC 28677
165 Fanjoy Road
Phone: (800) 438-7016
Fax: (704) 873-1313

Houston, TX 77093
4901 Langley Road
Phone: (800) 723-3623
Fax: (713) 697-5806

Bladensburg, MD 20710
4301- 46th Street
Phone: (301) 927-4080
Fax: (301) 927-0368

3. PRODUCT DESCRIPTION

Basic Use:
Aluminum coated (aluminized) steel chain link fence fabric for commercial, industrial and institutional applications. Aluminized fabric is contained in various government specifications for use in prison, road, dock, airport, housing, forestry, and military use.

Composition and Materials:
Aluminized steel chain link fence fabric is produced by cold-drawing good commercial grade steel rod into wire of the appropriate diameter. The steel rod from which the wire is drawn shall be produced by the open hearth, electric furnace or basic oxygen process.

The coating is produced by passing the cleaned wire through a molten bath of aluminum metal. Aluminum metal pigs or ingots used to produce the coating shall have no more than the following maximum levels of impurities:

Copper - 0.10% maximum Cu
Iron - 0.50% maximum Fe

Standards:
ASTM A 491 *Aluminum-Coated Steel Chain Link Fence Fabric*
ASTM F567 *Installation of Chain Link Fence*
ASTM A 817 *Metallic-Coated Wire for Use in Chain Link Fence*
Federal specification RR-F-191K/1D Type II, *Fencing, Wire and Post Metal (Chain-Link Fence Fabric)*
American Association of State Highway Transportation Officials M-181 *Chain Link Fence*, Type II

4. TECHNICAL DATA

General:
The manufacturer, if requested, will supply samples and certification that all materials furnished fully comply with the appropriate specifications.

Chain Link Fence Fabric:
The base metal of the chain link fence fabric is composed of commercial quality medium-carbon aluminum coated wire. The wire is coated with aluminum to produce a smooth and uniform coating. The weight of aluminum coating, wire sizes with allowable variances, and wire breaking strength, as shown in **Table 1**, conform to ASTM A 817 for the wire size specified. The wire is aluminum coated before weaving.

Sizes:
Aluminized fabric is available in mesh sizes from 3/8 inch to 2 inches (10 mm to 50 mm), and in heights from 36 inches to 240 inches (910 mm to 6,100 mm). **See Table 2.**

Unless otherwise specified, chain link fence fabric woven with a 2 inch (50 mm) mesh and 60 inches (1,520 mm) or less in height is knuckled at both selvages; for fabrics 72 inches (1,830 mm) or greater in height the selvages are knuckled at one edge and twisted at the other. All fabrics which are woven into mesh sizes under 2 inches are knuckled at both selvages.

5. INSTALLATION

Install fence in accordance with ASTM Practice 567.

6. AVAILABILITY AND COST

Availability:
Aluminum coated steel chain link fence fabric is available for shipment throughout the United States and worldwide.

Cost:
Material costs may vary depending on specific requirements. Costs may be obtained through all Merchants Metals Service Centers.

7. WARRANTY

Aluminum coated steel chain link fence fabric is warranted for 25 years against failure due to rust or corrosion. *Note: ASTM specification A491, Federal specification RR-F-191 and other major specifications state that discoloration or rust on the cut ends of aluminum coated fabric at the selvages are not cause for rejection.*

8. MAINTENANCE

Periodic inspection is recommended but no routine maintenance is required.

9. TECHNICAL SERVICES

Technical services are available through the Merchants Technical Sales Department:

Phone: (888) 260-1600 (toll free)
Facsimile: (888) 261-3600 (toll free)

or your local Merchants Metals Service Center.

SHARON METAL FENCE CO., INC.
100 Council Avenue
WHEATLAND, PA 16161
(412) 981-6050 or 1-800-336-2350

Merchants Metals Spec Tech

Aluminum Coated Steel Chain Link Fence Fabric
ASTM A 491, Federal specification RR-F-191 Type II, AASHTO M-181 Type II

Table 1 – Aluminum Coated Wire Characteristics

Nominal Coated Wire Diameter			Allowable Variance		Aluminum Coating Weight, minimum		Breaking Strength, minimum	
Gage	inch	Mm	inch	mm	oz/ft^2	g/m^2	lbf	Newtons
6	0.192	4.88	±0.005	±0.13	0.40	122	2,170	9,650
9	0.148	3.76	±0.005	±0.13	0.40	122	1,290	5,740
10	0.135	3.43	±0.005	±0.13	0.40	122	1,290	5,740
11	0.120	3.05	±0.005	±0.13	0.35	107	850	3,780

Table 2 – Aluminum Coated Chain Link Fabric Characteristics

Recommended Use	Mesh Sizes Available		Nominal Coated Wire Size, gage	Height of Fence Fabric inch (mm)
	inch	mm		
Industrial/Commercial	2"	50	6	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
			9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
			10	36 (910), 42 (1070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
			11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
Industrial/Security	1"	25	6	36 (910), 42 (1070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
			9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
Security	1"	25	9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	1"	25	11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	3/4"	19	9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	3/4"	19	11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	5/8"	16	9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	5/8"	16	11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	1/2"	13	9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2740), 120 (3,050), 144 (3,660)
	1/2"	13	11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	3/8"	10	10	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	3/8"	10	11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
Tennis Court	1-3/4"	44	9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
			11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)

Notes to tables: Red text indicates conformance with ASTM A-491.
Fabrics with other characteristics may be available. Contact the Merchants Metals Technical Sales Department or a Merchants Metals Service Center with specific requests.

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MERCHANTS METALS
The First Name In Fence

ATTACHMENT 1

AIR MONITORING RESULTS

(IN ELECTRONIC VERSION ONLY)