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IRM#1 CONSTRUCTION COMPLETION REPORT

Staubs Textile Services, Inc.
935-951 East Main Street
Rochester, Monroe County, New York
Site Number 828160
Contract Work Authorization Number: D006132-24

CB&I Project No.: 134685.24

April 2013

Prepared for:

Matthew Dunham, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, Albany, NY 12233-7012

Submitted by:

Shaw Environmental & Infrastructure Engineering of New York, P.C., a CB&I company
13 British American Boulevard
Latham, New York, 12110

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Acronyms and Abbreviations

µg/L	micrograms per liter
bgs	below ground surface
CCR	Construction Completion Report
Chemtech	Chemtech Consulting Group
ESA	Environmental Site Assessment
GPR	Ground Penetrating Radar
IRM	Interim Remedial Measure
NYLD	New York Leak Detection
NYSDEC	New York State Department of Environmental Conservation
OP-TECH	OP-TECH Environmental Services, Inc.
PCE	tetrachloroethene
PID	Photoionization Detector
PM	Project Manager
RI	Remedial Investigation
Sanborn	Sanborn Fire Insurance Maps
Shaw	Shaw Environmental & Infrastructure Engineering of New York, P.C.
Staubs	Staub Textile Services, Inc.
TCE	trichloroethene
TCLP	Toxic Characteristic Leaching Procedure
UST	Underground Storage Tank

1.0 INTRODUCTION

Shaw Environmental & Infrastructure Engineering of New York, P.C. (Shaw) has prepared this Interim Remedial Measure IRM (IRM) #1 Construction Completion Report (CCR) summarizing the underground storage tank (UST) closure and removal activities completed at the Staubs Textile Services, Inc. (Staubs) Site (Site Number 828160) located at 935-951 East Main Street, Rochester, Monroe County, New York (Site) (**Figure 1**). A Remedial Investigation (RI), provided under separate cover, was designed to investigate the extent of contamination from historical on-site operations. Samples collected during the RI indicated that the USTs were the likely source of observed soil impacts. The purpose of IRM #1 was to locate and then remove or close any existing USTs inside the on-site building.

1.1 Facility Description and Location

Site Description

The Site is located in a largely commercial neighborhood and is bordered by residential houses to the south. The Site is comprised of two contiguous parcels totaling approximately 1.2 acres on the south side of East Main Street and west side of Circle Street in the City of Rochester, New York. There is an approximate 58,451-square-foot 2.5 story masonry building with a partial basement on the Site. The original portion of the building was constructed circa 1910 and "William Staub of Staub & Son" purchased the building in 1922. In September, 1927 Staub & Son completed a permit to add the present cleaning plant. In 1995 a permit was submitted to build a third floor of the dry cleaning plant. Since then other additions/renovations have been made to the building. The Site is owned by 951 East Main Street, LLC; it was historically operated as a uniform leasing business, a laundry, and a dry cleaning facility referred to as Staubs. The Site is serviced by the City of Rochester public water and sewer system. The Pike Company, a commercial builder, is located to the east of the Site. East Main Street borders the site to the north. Commercial and residential property borders the Site to the west.

Historic Operations

According to a Phase I Environmental Site Assessment (ESA) Report written by Passero Associates (March 18, 2009), the Site was historically utilized as a dry cleaning operation. An interview with the site owner, Richard Markus, indicated that the Site was a uniform supplier and laundry. A Dry Cleaning Compliance Inspection was performed on April 25, 2002. The presence of two dry cleaning machines that used perchloroethylene (PCE) as the dry cleaning solvent was identified. The compliance report also stated that the PCE usage log indicated the use of 160 gallons of PCE in the previous 12 months (April 2001-2002). The Phase I ESA also

noted the New York State Department of Environmental Conservation (NYSDEC) October 2005 "Hazardous Waste Compliance Inspection" which confirmed that the facility was closed and no longer regulated at that time. According to the Phase I ESA Report, Passero Associates inspected the Site on March 4 and again on March 11, 2009. At the time of the inspections the Site building was vacant. Two dry cleaning machines labeled PCE were presented and located in the southern portion of the building.

A review of historic Sanborn® Fire Insurance Maps (Sanborn®) indicated that the Site was occupied by Faber in the early 1900s; Faber was noted as a manufacturer and repairer of sulkies (i.e. carriages). The Sanborn® Maps dated 1938, 1950, and 1971 indicate that the subject building was referred to as Staub & Son, Inc. "laundry and dry cleaning;" six solvent tanks, a chemical storage area, a clarifier tank, and a gas tank were present on Site throughout this period. Two of the solvent tanks were located inside the subject building (south side). The remaining solvent tanks, clarifier tank, and the gas tank were located along the south of the building; this area was subsequently covered by an addition to the building. Shaw's review of the Sanborn® maps identified the presence of nine possible tanks (with unknown contents) at the Site.

2.0 SCOPE OF WORK

Shaw conducted field activities as part of the RI for this Site between November 28, 2011 and March 20, 2012 in accordance with the Work Plan for this Site, approved by the NYSDEC on September 26, 2011. The RI was completed to assess soil, groundwater and vapor phase conditions at the Site. The results of this assessment will be summarized in the RI report provided to the NYSDEC. The NYSDEC subsequently requested that a focused IRM be completed to identify whether the USTs existed, determine the nature, type, orientation and contents of the tanks and remove/close the USTs to determine whether they were the source of soil impacts observed during the RI completed at this Site. On January 23, 2012, Shaw, the NYSDEC Project Manager (PM) and the OP-TECH Environmental Services, Inc. (OP-TECH) PM mobilized to the Site to define the new scope of work, mark-out additional sampling locations and review any plans/drawings of the Site. The scope of work and results of this IRM are discussed in the remaining portions of this report.

2.1 GPR Survey

New York Leak Detection (NYLD) and Shaw mobilized to the Site on February 8, 2012 to locate any underground utilities and attempt to locate the interior tanks using Ground Penetrating Radar (GPR). A subsurface specialist from NYLD used GPR (at different frequencies), an electromagnetic induction sensor, magnetometers, and other support tools to locate the USTs. Once the survey was completed, the subsurface specialist marked the suspected locations of the USTs on the ground with marking paint.

2.2 Indoor UST Removals / Closures

Preliminary Closure Activities

After the locations of the USTs were defined during the GPR survey, Shaw and OP-TECH were to mobilize to the Site to close-in-place all USTs. The original scope of work for this IRM was to saw cut and remove the concrete floor to expose the top of each UST. All concrete debris and sub-base materials were assumed to be non-hazardous wastes and were to be stockpiled for later disposal at a landfill. It was also assumed that the residual product and tank contents could be safely removed and the tanks cleaned via non-confined space entry. All tank liquids and wash water was to be placed into containers supplied by OP-TECH. Shaw was to collect one sample from each tote and send it to Chemtech Consulting Group (Chemtech) with a 3-day turnaround time to expedite off-site disposal. After the USTs were cleaned, OP-TECH would provide and install 50-PSI flowable fill to backfill each of the USTs as well as compact 1-foot of crusher run

gravel (2-inches or less) as sub-base material. Upon closure of the USTs, OP-TECH would install 4,000-PSI reinforced concrete with a 6-inch thickness. The reinforcement would be Number 5 Bar Tied 2-foot on-center each way and dry socketed in the face of the existing concrete at 2-foot intervals.

The UST closure/removal was performed between October 1 and 19, 2012 in areas designated 1 through 4 (**Figure 2**). OP-TECH obtained a building permit (Permit Number 1124899) for the UST closure from the City of Rochester on September 25, 2012; the permit and compliance certificate are included as **Appendix A**. As mentioned previously, the initial plan was to close-in-place the USTs; however, after consultation with the NYSDEC PM, it was decided that it would be more beneficial to remove the USTs.

Industrial fans were set up during excavation in order to minimize airborne particulates and promote ventilation within the building; the local fire marshal was on site periodically to ensure that proper safety regulations were observed during excavation. A photographic log documenting field activities in included as **Appendix B**; field notes relating to this task are included as **Appendix C**.

Area 1 – Tank Farm Area

Area 1 was overlain by a concrete floor and ramp. OP-TECH used a Kubota KX-121-3 excavator with hoe ram attachment to remove the top layer of concrete. An excavator bucket was then attached to the Kubota excavate the soils in this area. A Sid Steer 6640 Turbo GEHL Bobcat was also used to excavate contaminated soils.

Five USTs were uncovered and removed from Area 1 along with several feet of product piping. One of the tanks (UST-1) had a horizontal alignment while the remaining four (USTs 2 through 5) were aligned vertically. The vertical tank bottoms were estimated at 13-ft bgs. All tanks were constructed of steel and had at least some deterioration to them.

UST	Alignment	Approximate Size	Tank Contents
UST-1	Horizontal	8-ft 6-in x 4-ft 6-in	Dry
UST-2	Vertical	5-ft 4-in x 3-ft 4-in	Slightly wet on bottom
UST-3	Vertical	5-ft x 6-ft	Liquid present
UST-4	Vertical	5-ft 4-in x 3-ft 4-in	liquid present with some solids / sludge present; solvent odor
UST-5	Vertical	7-ft 6-in x 7-ft 6-in	Liquid present

The tank pits were backfilled with the native excavated soils as directed by the NYSDEC. The remaining void was filled with clean fill imported to the Site, and topped with plastic sheeting. OP-TECH proceeded to install approximately 6-inches of crusher run gravel, leveling the excavated area with the concrete floor.

Tanks three, four and five all contained liquid which was sent to Chemtech for Toxic Characteristic Leaching Procedure (TCLP) analysis by USEPA Method 6010B, flashpoint via USEPA Method 1010A, reactivity via USEPA Method 9012B/9034, and corrosivity via U.S. USEPA Method 9040C. The remaining liquid was emptied from the tanks using a submersible pump and stored in 250-gallon totes for disposal. A soil sample was also taken from the area above the tank farm; this sampled was analyzed for TCLP constituents by USEPA Method 6010B, ignitibility via USEPA Method 1030, reactivity via USEPA Method 9012B/9034, and corrosivity via U.S. USEPA Method SW9045C. Analytical data from this event is included in **Appendix D**, and summarized in **Table 1**.

Area 2

This area was saw cut using a concrete core/cut 33-749 machine and excavated similar to the process utilized in Area 1. One underground chemical storage tank was believed to be present in this area according to the historical drawings of the site and the results of the GRP survey. However only a black cast iron pipe was discovered approximately 1.5-feet below ground surface (bgs), believed to be a sewer or rain water pipe. The excavation area was expanded in attempt to located this UST. No USTs were discovered and the excavated native soils were used

to backfill the excavation; the surface layer was leveled and covered by a layer of crusher run gravel.

Area 3 – 4,200 Gallon Tank

Area 3 consisted of one vertical 4,200 gallon UST. The top of the tank was approximately 4-feet bgs and the bottom of the tank was between 14 and 15-feet bgs. The UST was roughly 12-ft (height) by 8-ft (diameter); the fill port was 2-inches wide and located approximately 3-feet bgs with a "T" to the cap serving as a possible fill port. Approximately 1.5-ft of liquid was observed in the tank. The tank was located in a vault (concrete box) and had limited access for the excavation equipment.

The surface concrete was saw cut and removed using the same process as the other areas. After partially excavating the soils above the tank, the tank was opened and the contents were analyzed with a ppbRae PID; the PID reading exceeded 2,000 ppm. After consultation with the NYSDEC PM it was decided to close the tank in place so as not to undermine the building footings. The interstial liquid was removed, the tank was rinsed and grout was emplaced within the tank to render it inoperable. Excavated soils were backfilled, covered with plastic sheeting, and topped with a level layer of crusher run gravel. All liquid removed from the tank, including any cleaning solution, was stored in 250-gallon totes and sent to Chemtech for TCLP analysis.

Area 4

Area 4 consists of one vertical UST located approximately 18-inches bgs situated in the room west/northwest of Area 1. The size of the tank was estimated at 11,000-gallons. This is also the area where the highest contaminated soil concentrations were found during the RI. The tank was located approximately 15-feet from the original GPR markout after following what was believed to be a fill line. After partially excavating the area around the top of the, the tank was opened and the contents were analyzed with a ppbRae photoionization device (PID); the PID reading exceeded 2,000 ppm. The tank was excavated and removed. The tank was steel and had some deterioration. The tank pit was backfilled with the native excavated soils and clean fill imported to the site, and topped with plastic sheeting. OP-TECH proceeded to install approximately 6-inches of crusher run gravel, leveling the excavated area with the concrete floor.

All liquid removed from the tank, including any cleaning solution, was stored in 250-gallon totes and sent to Chemtech for TCLP analysis

2.3 Investigation Derived Waste Management

All of the concrete cuttings staged on site were considered to be non-hazardous and sent for recycling by OP-TECH. A total of two dump truck loads of concrete was sent to Villager Construction for recycling.

The City of Rochester Fire Marshall, Steve Ersteniuk would not allow OP-TECH to cut the interior USTs in-place nor cut within city limits. In order to render the USTs in operable, typically a 1-foot diameter hole is cut into them, However, the steel USTs were deteriorated, large enough holes make during the cleaning/extraction process, therefore OP-TECH did not have transport outside of the city limits to cut. The USTs were shipped to the recycling yard.

At the direction of the NYSDEC, native soil was used to backfill the excavations and any remaining void space was filled with clean fill imported to the Site, and topped with plastic sheeting. It was anticipated that any remaining impacted soils would be remediated under a separate IRM. All liquids generated during UST removal/closure operations were placed in totes and staged on Site for disposal. The hauling of the waste totes was completed on October 19 by OP-TECH and sent to Cycle Chem, Inc. in Lewisberry, PA for disposal. The end disposal method was incineration. The waste manifests and forms related to the removal of contaminated materials from the site are included as **Appendix E**.

3.0 WASTE CHARACTERIZATION RESULTS

As previously discussed, a total of four samples were collected for waste characterization; one soil sample in the area surrounding the USTs in Area 1, and three liquid samples for the contents of UST's 3, 4 and 5 within Area 1. The sample collected from UST 4 could not be analyzed for anything but physical properties (i.e. RCRA Characteristics) and PCBs because it was considered to be residual product that was immiscible with water.

The TCLP analysis for soil collected directly above UST -1 (SOILOVERUST-1) showed a PCE result of 11,000D micrograms per liter (µg/L) and a trichloroethene (TCE) results of 250D µg/L. Barium, cadmium and lead were also detected in the soil sample. The sample had a pH of 8.24, was not ignitable and had a reactive sulfide result of 18 milligram per kilogram.

Aqueous samples UST-3, UST-4 and UST-5 were collected for TCLP analysis. As previously stated samples collected from UST-4 were only analyzed for PCBs and RCRA constituents. PCE results were recorded at 2,300 µg/L (UST-3), and 42,000 µg/L (UST-5). TCE results for these samples were 5,800 µg/L, and 900J µg/L respectively. Barium, cadmium, and 3+4-methylphenols were detected in both samples UST-3 and UST-5. Pentachlorophenol was also detected in UST-3.

The pH in the samples ranged from 5.36 (UST-3) to 6.01 (UST-4). Samples UST-3 and UST-5 each had a flash point greater than 212°F, UST-4's flashpoint was 112.9°F. The reactive Sulfide results ranged from 1.12 mg/l (UST-4) to 1.44 (UST-3). All TCLP analytical results are summarized in **Table 1**, and full analytical data packages are located in **Appendix D**.

Tables

Table 1
TCLP Waste Characterization Analytical Results
Staubs Textile Services, Inc.
October 2012

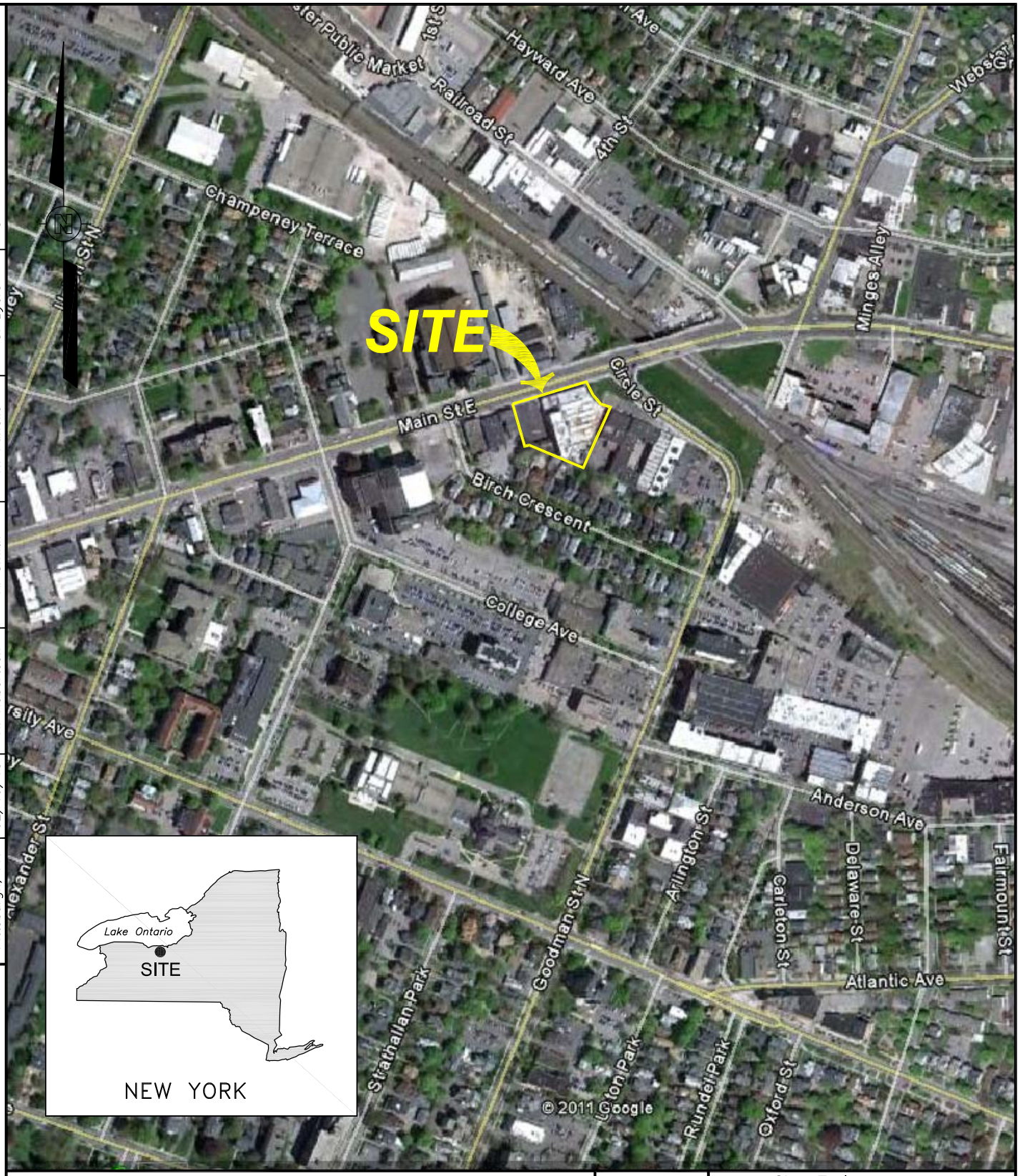
Site ID	UST-1	UST-1	UST-3	UST-3	UST-4	UST-5	UST-5
Field Sample ID	SOILOVERUST-1	SOILOVERUST-1DL	Tank 3	Tank 3	Tank 4	Tank 5	Tank 5
Sample Date	10/1/2012	10/1/2012	10/1/2012	10/1/2012	10/1/2012	10/1/2012	10/1/2012
Matrix	Soil	Soil	Liquid	Liquid	Liquid	Liquid	Liquid
Analyte	**Primary**	**Dilution: 1000**	**Primary**	**Dilution: 250**	**Primary**	**Primary**	**Dilution: 2**
PCBs (µg/kg$_{soil}$ µg/L$_{liquid}$)							
Aroclor-1016	9.5 U	NA	0.5 U	NA	245 U	0.5 U	NA
Aroclor-1221	9.5 U	NA	0.5 U	NA	245 U	0.5 U	NA
Aroclor-1232	9.5 U	NA	0.5 U	NA	245 U	0.5 U	NA
Aroclor-1242	9.5 U	NA	0.5 U	NA	245 U	0.5 U	NA
Aroclor-1248	9.5 U	NA	0.5 U	NA	245 U	0.5 U	NA
Aroclor-1254	9.5 U	NA	0.5 U	NA	245 U	0.5 U	NA
Aroclor-1260	9.5 U	NA	0.5 U	NA	245 U	0.5 U	NA
Semivolatiles (µg/L)							
Pyridine	50 U	NA	50 U	NA	NA	50 U	100 UD
1,4-Dichlorobenzene	50 U	NA	50 U	NA	NA	50 U	100 UD
2-Methylphenol	50 U	NA	50 U	NA	NA	50 U	100 UD
3+4-Methylphenols	50 U	NA	**580**	NA	NA	**970 E**	**910 D**
Hexachloroethane	50 U	NA	50 U	NA	NA	50 U	100 UD
Nitrobenzene	50 U	NA	50 U	NA	NA	50 U	100 UD
Hexachlorobutadiene	50 U	NA	50 U	NA	NA	50 U	100 UD
2,4,6-Trichlorophenol	50 U	NA	50 U	NA	NA	50 U	100 UD
2,4,5-Trichlorophenol	50 U	NA	50 U	NA	NA	50 U	100 UD
2,4-Dinitortoluene	50 U	NA	50 U	NA	NA	50 U	100 UD
Hexachlorobenzene	50 U	NA	50 U	NA	NA	50 U	100 UD
Pentachlorophenol	50 U	NA	**60 J**	NA	NA	50 U	100 UD
Herbicides (µg/L)							
2,4-D	10 U	NA	10 U	NA	NA	10 U	NA
2,4,5-TP (Silvex)	10 U	NA	10 U	NA	NA	10 U	NA
Metals (µg/L)							
Arsenic	50 U	NA	50 U	NA	NA	0.5 U	NA
Barium	**500 J**	NA	**294 J**	NA	NA	**8.57**	NA
Cadmium	**8.7 J**	NA	**14.7 J**	NA	NA	**0.11 J**	NA
Chromium	25 U	NA	25 U	NA	NA	0.25 U	NA
Lead	**53.9 J**	NA	30 U	NA	NA	**0.84**	NA
Mercury	1 U	NA	1 U	NA	NA	1 U	NA
Selenium	50 U	NA	50 U	NA	NA	0.5 U	NA
Silver	25 U	NA	25 U	NA	NA	0.25 U	NA
Pesticides (µg/L)							
gamma-BHC	0.25 U	NA	0.25 U	NA	NA	0.25 U	NA
Heptachlor	0.25 U	NA	0.25 U	NA	NA	0.25 U	NA
Heptachlor epoxide	0.25 U	NA	0.25 U	NA	NA	0.25 U	NA
Endrin	0.25 U	NA	0.25 U	NA	NA	0.25 U	NA
Methoxychlor	0.25 U	NA	0.25 U	NA	NA	0.25 U	NA
Toxaphene	2.5 U	NA	2.5 U	NA	NA	2.5 U	NA
Chlordane	2.5 U	NA	2.5 U	NA	NA	2.5 U	NA
Volatiles (µg/L)							
Vinyl Chloride	12.5 U, D5	2500 U	NA	600 U	NA	1250 U, D500	NA
1,1-Dichloroethene	12.5 U, D5	2500 U	NA	600 U	NA	1250 U, D500	NA
2-Butanone	60 U, D5	12500 U	NA	3100 U	NA	6000 U, D500	NA
Carbon Tetrachloride	12.5 U, D5	2500 U	NA	600 U	NA	1250 U, D500	NA
Chloroform	12.5 U, D5	2500 U	NA	600 U	NA	1250 U, D500	NA
Benzene	12.5 U, D5	2500 U	NA	600 U	NA	1250 U, D500	NA
1,2-Dichloroethane	12.5 U, D5	2500 U	NA	600 U	NA	1250 U, D500	NA
Trichloroethene	**250 D5**	2500 U	NA	**5800**	NA	**900 J, D500**	NA
Tetrachloroethene	**28000 E, D5**	**11000 D**	NA	**2300**	NA	**42000 D500**	NA
Chlorobenzene	12.5 U, D5	2500 U	NA	600 U	NA	1250 U, D500	NA
RCRA Characteristics							
Corrosivity (as pH)	**8.24**	NA	**5.36**	NA	**6.01**	**5.71**	NA
Ignitability (Y/N)	No	NA	NA	NA	NA	NA	NA
Flashpoint (^{o}F)	NA	NA	>212.000	NA	**112.9**	>212.000	NA
Reactive Cyanide(mg/kg$_{soil}$ or mg/L$_{liquid}$)	0.05 U	NA	0.005 U	NA	0.005 U	0.005 U	NA
Reactive Sulfide (mg/kg$_{soil}$ or mg/L$_{liquid}$)	**18**	NA	**1.44**	NA	**1.12**	**1.28**	NA

Notes:

1) All results are expressed in units as indicated;
2) **Bold** - Indicates analyte detected through laboratory analysis;
3) U - Indicates the analyte was not detected during analysis. The associated value is the laboratory reporting limit;
4) J - Indicates the associated value is approximate. Data indicates the presence of the compound at a concentration less than the quantitation limit but greater than the MDL;
5) NA - Not Analyzed;
6) E - Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis;
7) D - Compounds reanalyzed at the secondary dilution factor as indicated;
8) D## - Indicates primary sample analysis was performed at a dilution factor equal to the associated numerical value;
9) UD - Indicates the analyte was not detected during reanalysis. The associated value is the laboratory reporting limit, adjusted for the sample dilution.

Figures

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	02/19/13	N. Robertson	A. Smith	H. Fariello	C. Byers	134685-24A1



REFERENCE:

MAP FROM www.google.com

"DRAWING NOT TO SCALE"

Shaw Environmental, Inc.
(A CB&I Company)
13 British American Boulevard
Latham, New York 12110-1405

NEW YORK STATE DEPARTMENT OF
ENVIROMENTAL CONSERVATION

FIGURE 1
SITE LOCATION MAP

STAUBS TEXTILE SERVICE
935-951 EAST MAIN STREET
ROCHESTER, MONROE COUNTY, NEW YORK

File: U:\Project\134685\24\134685-24A1.dwg
Plot Date/Time: Apr 02, 2013 - 10:55am
Plotted By: steven.walsh

DRAWING NUMBER	134685-24B17
APPROVED BY	HAF
CHECKED BY	NR
DRAWN BY	SJW
DESIGNED BY	NR
DATE	04/11/13
OFFICE	LATHAM, NY

SB-3
SB-32
SB-1
SB-6
SB-7
SB-17
7 AREA 4
SB-10
SB-22
SB-10A/PZ-5
SB-15
SB-14
SB-28
SB-30
SB-8
SB-24
SB-13
SB-9
1 2 3 4 5 AREA 1
SB-27
SB-29
SB-23
SB-34
AREA 3
6
SB-2
AREA 2
SB-12
SB-25
SB-26
SB-11
SB-16
SB-18/PZ-1

LEGEND

- SB-5 FIRST ROUND SOIL BORING
- SB-18/PZ-1 FIRST ROUND SOIL BORING/PIEZOMETER
- SB-33 SECOND ROUND SOIL BORING
- APPROXIMATE LOCATION OF BASEMENT
- APPROXIMATE LOCATION OF HORIZONTAL UNDERGROUND STORAGE TANK (UST) – REMOVED
- APPROXIMATE LOCATION OF VERTICAL UST – REMOVED
- APPROXIMATE LOCATION OF VERTICAL UST – CLOSED IN PLACE
- APPROXIMATE LOCATION OF FORMER UST (NOT LOCATED DURING SITE INVESTIGATION)

N

SCALE
0 30 60 FEET

SHAW ENVIRONMENTAL, INC. (A CB&I COMPANY)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FIGURE 2
UNDERGROUND STORAGE TANK (UST) LOCATION MAP
STAUBS TEXTILE SERVICE
935 & 951 EAST MAIN STREET
MONROE CO., ROCHESTER, NEW YORK

Xref :
Image :

File: U:\Project\134685\24\134685-24B17.dwg
Plot Date/Time: Apr 15, 2013 - 9:23am
Plotted By: steven.walsh

Appendix A

Tank Closure Permit and Compliance Certificate

CITY OF ROCHESTER, NEW YORK

DEPARTMENT OF COMMUNITY DEVELOPMENT

BUILDING PERMIT

Permit Number: 1124899 **Applicant:** CHAD GENERAL

Permit Location: 0941 E MAIN ST **Issue Date:** 09/25/12

Description:

CLOSURE IN PLACE OF NINE{9} INTERIOR LOCATED TANKS {UST'S}AT FORM ER STAUBS

A permit issued does not relieve the owner, contractor, architect, engineer or owner's agent from complying with any of the provisions of Chapter 39 of the Code of the City of Rochester and the New York State Uniform Fire prevention and Building Code whether stated, implied or omitted in the permit documents.

This placard must be posted in a conspicuous place on the above premises. Permit will expire if work has not commenced within 90 days after issuance.

Failure to comply with conditions of the permit will subject the owner or his/her agent to penalties as prescribed by Law.

Pursuant to Section 39-209 of the Code of the City of Rochester, approved plans must be available on site for inspection during the course of construction.

REQUIRED INSPECTIONS (48 HOUR NOTICE REQUIRED)

Do not proceed beyond these points until all required inspections have been performed.

- ☐ SITE WORK
- ☐ FOOTING - before placing concrete
- ☐ FOUNDATION AND PERIMETER DRAIN - before backfill
- ☐ FRAMING - after mechanicals
- ☐ HEATING / VENTILATION
- ☐ INSULATION
- ☐ FIRE RESISTANCE / RATED CONSTRUCTION
- ☐ FIRE SAFETY
- ☐ ELEVATOR
- ☐ OTHER
- ☐ FINAL

Inspector: STEVE ERSTENIUK **Phone#:** {585} 428-6520

PLACARDB PS

City of Rochester

Department of Neighborhood and Business Development
City Hall Room 028B, 30 Church Street
Rochester, New York 14614-1290
www.cityofrochester.gov

Phone: 585.428.6520
Fax: 585.428.6287
TTY: 585.428.6054

one city ROCHESTER

Inspection and Compliance

CERTIFICATE OF COMPLIANCE

CASE NO. 523897

CHAD GENERAL
3255 BRIGHTON HEN TL RD
ROCHESTER NY 14623

Date Letter Printed: 12/07/12
Date Permit Issued : 09/25/12
Permit Number : 1124899

Permit Location: 0941 E MAIN ST

Permit description:

CLOSURE IN PLACE OF NINE(9) INTERIOR LOCATED TANKS (UST'S)AT FORMER STAUBS CLEANERS (AKA 951 E.MAIN ST)

Dear Applicant / Owner:

The work performed at the permit location covered by Permit Number 1124899 has been completed and is in substantial compliance with the applicable requirements of the Municipal Code of the City of Rochester and the New York State Uniform Fire Prevention and Building Code.

STEVE ERSTENIUK
Inspector of Record: S. Erstenl

NOTICE OF DISCLAIMER

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LENDERS AND PURCHASERS ARE STRONGLY ENCOURAGED TO CONSULT INDEPENDENT INSPECTORS.

Appendix B

Photolog

Shaw Environmental, Inc. a CB&I Company
Photographic Record

Customer: NYSDEC	**Project Number: 134685.24**
Site Name: Staubs Textile Service	**Site Location: Rochester, NY**

Photographer:
Kevin Cronin

Date:
2/8/2012

Direction:
North

Comments:
GRP survey in dry cleaning room

Photographer:
Kevin Cronin

Date:
2/8/2012

Direction:
West

Comments:
Empty UST markout near BH-3

Shaw Environmental, Inc. a CB&I Company
Photographic Record

Customer: NYSDEC	**Project Number: 134685.24**
Site Name: Staubs Textile Service	**Site Location: Rochester, NY**

Photographer: Kevin Cronin **Date:** 10/2/2012 **Direction:** WNW **Comments:** Busting concrete for UST removal in Area 1	
Photographer: Kevin Cronin **Date:** 10/2/2012 **Direction:** SW **Comments:** Saw cutting interior floor in Area 4	

Shaw Environmental, Inc. a CB&I Company
Photographic Record

Customer: NYSDEC	**Project Number: 134685.24**
Site Name: Staubs Textile Service	**Site Location: Rochester, NY**

Photographer: Kevin Cronin **Date:** 10/2/2012 **Direction:** **Comments:** Area 2 – Black Iron Pipe	
Photographer: Kevin Cronin **Date:** 10/2/2012 **Direction:** NNW **Comments:** Area 2 backfilled	

Shaw Environmental, Inc. a CB&I Company
Photographic Record

Customer: NYSDEC	**Project Number: 134685.24**
Site Name: Staubs Textile Service	**Site Location: Rochester, NY**

Photographer: Kevin Cronin	
Date: 10/2/2012	
Direction:	
Comments: Area 1 -USTs	
Photographer: John Moyer	
Date: 10/4/012	
Direction:	
Comments: Area 3 – Top of 4200 Gal. UST	

Shaw Environmental, Inc. a CB&I Company
Photographic Record

Customer: NYSDEC	**Project Number: 134685.24**
Site Name: Staubs Textile Service	**Site Location: Rochester, NY**

Photographer:
John Moyer

Date:
10/5/2012

Direction:

Comments:
Area 4 UST

Photographer:
Kevin Cronin

Date:
10/9/2012

Direction:
ESE

Comments:
Removing UST-2
from Area 1

Shaw Environmental, Inc. a CB&I Company
Photographic Record

Customer: NYSDEC	**Project Number: 134685.24**
Site Name: Staubs Textile Service	**Site Location: Rochester, NY**

Photographer:
Kevin Cronin

Date:
10/17/2012

Direction:
SE

Comments:
Backfilling Area 2 and topping with gravel

Photographer:
John Moyer

Date:
10/19/2012

Direction:

Comments:
Area 3 tank grouted in place

Appendix C

Field Notes

WEDNESDAY FEBRUARY 8, 2012 IN 87,125
AM - CLEAR, 21° OUT 86,961
PM - CLEAR, 30° 163.4
0715 @ OFFICE, LOAD TRUCK, DRIVE TO STAUBS - ONSITE @ 0905. JOE GOODFELLOW (NYLD) + MR MARKUS ONSITE. UNLOCK BLDG. JOE SAYS HIS E-MAIL FROM HIS OFFICE ADMIN WOMAN SAYS NOTHING ABOUT VIDED WORK ON CLEANOUTS. HE PERFORMS GPR OUTSIDE BY WM DUMPSTER AND NOTES UST PRESENCE (MARKS ENDS W/ WT. PAINT) - SAYS END OF UST LOOKS "MANGLED", PERFORMS GPR INSIDE DRY CLEANING ROOM. CALL HAF W/ UPDATE @0945. JOE PAINTS OUT SUSPECTED UST IN

Location FORMER STAUBS Date 2/8/12

Project / Client NYSDEC GPR SURVEY

MATT DURHAM (NYSDEC) ONSITE @ 0915.

DRY CLEANING ROOM; ~ 5.5' x ~7' RECTANGLE, ~ 2' BELOW CONCRETE SURFACE LOCATED ~ 6" FROM SB-8, ~ 4½' FROM SB-9 AND ~ 7' FROM BLT-1, ~ 2½' FROM WALL. JOE SAYS LOOKS LIKE A PIPE GOES ACROSS THE UST. PERFORMS SURVEY ON OPPOSITE SIDE OF WALL THAT SHOWS 6 USTs - HE SAYS IT APPEARS AREA WAS EXCAVATED DOWN TO ~ 4' - DRAWS PAINT LINE WHERE NATIVE CONDITIONS APPEAR AGAIN. JOE LOCATES SUSPECT USTS NEAR RAMP BIGGEST ONE ~4' BELOW GROUND SURFACE JOE PAINTS OUT AREA OF SUSPECT USTS. HAVE HIM GO OVER AREA WHERE "EMPTY" UST SYMBOL ON DWG WAS. DOES FIND ANOMOLY @ ~1'-2' BUT NOT AS STRONG A SIGNAL AS USTS UNDER RAMP. JOE BEGINS GPR OF 4200 GAL SOLVOLENE UST AREA. FIND AN ANOMOLY - JOE PAINTS OUT - NEAR RAMP INTO NEW LOADING DOCK AREA. CALL HAF JOE USES DIGITAL INSPECTION CAMERA

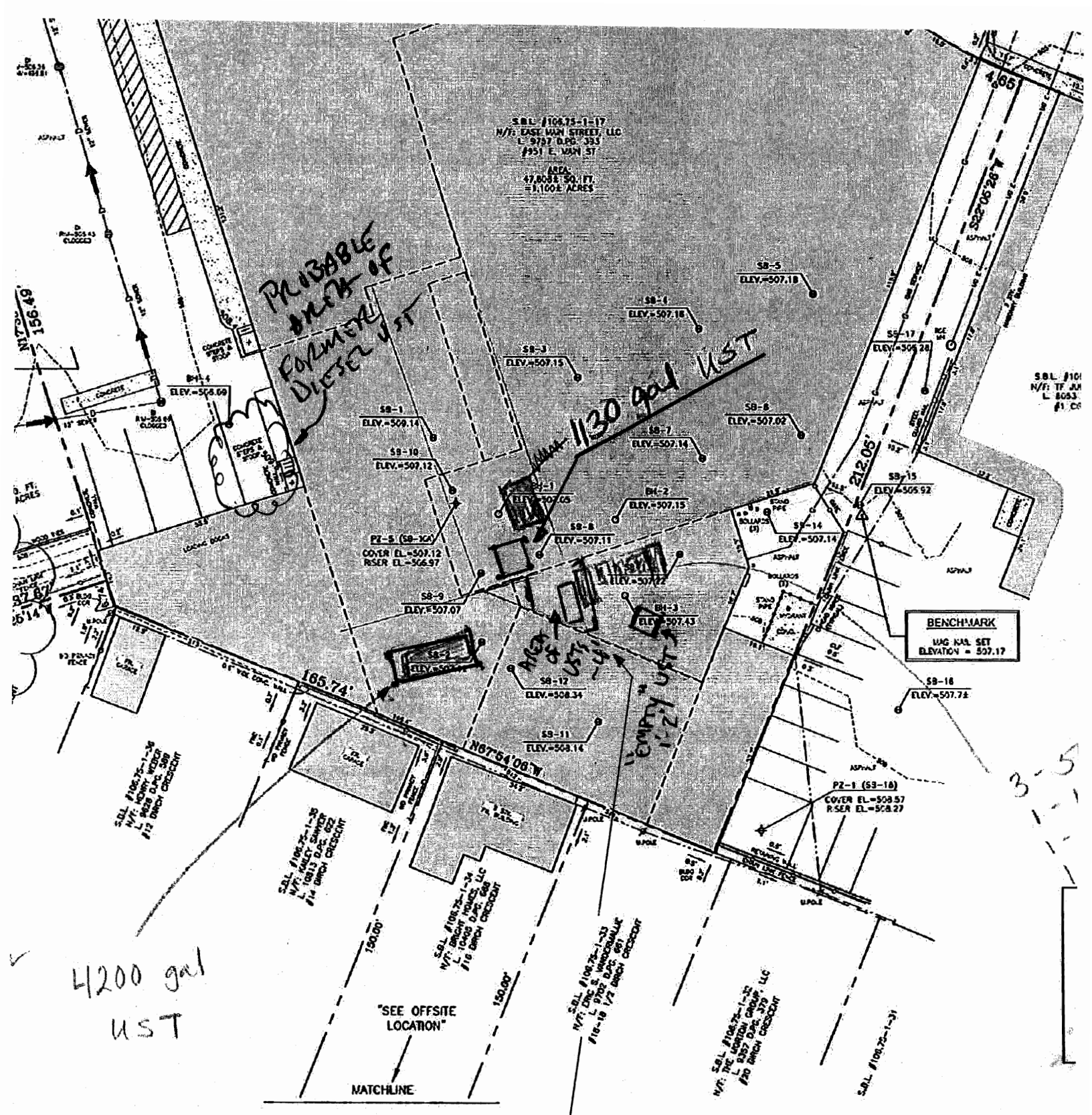
Location ROCHESTER, NY Date 2/8/12

Project / Client NYSDEC STAUBS GPR SURVEY

TO LOOK DOWN PIPE STUBS STICKING UP ALONG WALL - LOOKS LIKE PIPES ARE STILL OPEN, SOME RUST + DEBRIS NOTED. MIDDLE PIPE GOES @ LEAST ~16" STRAIGHT DOWN, EASTERLY ONE GOES DOWN ~12" THEN TURNS 45° TOWARD SUSPECTED USTs. GO INTO PARKING LOT AND PERFORM GPR - FIND STORM SEWERS LINES AND AREA IN CORNER THAT HAS DIFFERENT SOIL MATERIAL/BACKFILL - PROBABLE FORMER DIESEL UST LOCATION IN CORNER OF LOT. NYCD OFFSITE @ 1230, MATT DUNHAM OFFSITE @ 1240 AFTER CLOSING UP BLDG TALK W/ HAF + RICHARD MARKUS. KC OFFSITE @ 1250, GET GAS, BACK @ OFFICE @ 1455. DOWNLOAD PHOTOS, MAPS, NOTES.

Location Date

Project / Client



AREA OF 6 USTs HAS SEVERAL ANOMOLIES BUT STRONGEST ONE, @ ~4', IS ONLY ONE PAINTED OUT.

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Name Shaw Env. Inc

Address 13 British American Blvd, Latham 12110

Phone 518 783-1996

Project

* Project Mgr:
Heather Fariello
518 785-2346

CONTENTS

PAGE	REFERENCE	DATE
-	LATHAM UPS # 73V325	
-	STAUBS' UPS REFERENCE #: 00501.13465.4701.2402	

M 10/1/12 Heather Fariello (HHF)
Staubs Textile UST removal
weather 60s, partly cloudy
wind ~5 mph
objective remove 9 indoor USTs

0905 Heather Fariello (Shaw) and Matt Dunham (NYSDEC) arrive on-site. Kevin Cronin already here.

0910 Decision made if no tank present - we are not going searching for it.

0915 choose location for bedrock monitoring well.

0920 CpTech (Chadd & Will) on-site. Waiting for owner Mike Myers & Luke Keys (CpTech will be coming).

0925 Luke + Mike on site

0930 Begin site. Mr. Marcus opened b/dg

0940 open gate; move cars

Staubs Textile M. 10/1/12

and trucks.

0947 Kevin holds tailgate safety mtg.

0955 Begin grb set up

1030 Move rented equip inside (from ADMAR)
- KX121-3 (Kubota)
(GEHL) - skid steer 6640 turbo
- concrete cutter #33749

1040 Set KX121-3 on tank farm. Kevin cal. equip. planning on restoring apron unless we get permission from Mr. Markus otherwise ~~Begin saw cutting~~ (HHF) ~~@ high PCE location~~ (HHF)

1103 Begin at tank farm using KX121-3

1112 Begin saw cutting @ PCE high sample loc.

1138 soil removed from tank farm area = 193 ~~ppb~~ ppm
HHF 10/1/12

Heather Fariello

M. 10/1/12 Hatcher & Fairello

1141 Soil pile reading 588 ppm

1150 Chadd off site. Currently see no tanks in tank farm area but found pipes heading up ramp towards "Stoddard solvent tank"

1155 Resume saw cutting around PCE tank. HAF 10/1/12

1200 Mike & Luke take break.

1221 uncover pipe → peep ppm. Slab underneath slab. Decision made to remove/dull 2nd slab. Matt would like pipe removed as well.

~1230 Mike & Luke back from break. Will take break both while other 2 continue excavation/breaking up concrete

1250 Will back from lunch

Stawbs Textile M. 10/1/12

1310 Find pipe Excavation pegging PID.

1328 encounter more pipe

1350 find tank pipe → tank ~2 feet below. PID p.e. when stuck in pipe

1410 Find potential second pipe. Mike saw cutting 4200 gal tnc. Talk with Will → only are crew tomorrow chance slim they will finish by Friday. Plan tomorrow is to finish locating all tanks.

1415 Saw cut 4" pipe for better tank access.

1426 Work on clearing area around 1st found tank

1435 Talk with Matt → Keven to sample soil & send out for 3day TAT

m. 10/1/12 Heather & Janello if results aren't bad we will backfill with it

1440 Tell Plan to Kevin & Will. Matt there too. Matt is thinking about yanking tanks instead of closing in place. Will said he will have a day or so to decide. Will planning on starting around 7/7/15 Tell him to expect John Mayer 1st thing.

1500 Heather & Matt off-site

Heather A. Janello

10.2.12 - John Mayer

0700 arrive at site

0730 Optech performs own tailgate safety

0740 Continued saw cutting, jackhammer,

0830 Dig up at area #2 for small tank. No tank found, only 4" CI bell pipe, dug to approx. 72" depth, backfill

1030 Continued excavation at area #1, located tanks #1 - #5 at area #1 various sizes, approx. documented on map copy. Tanks #3, 4, 5 all have liquid present, all sampled for TCLP,

1530 dropped at UPS to send to lab. Everyone off site at approx 1615. Optech to hold onto key and lock up.

1615 Leave for day; samples iced, to UPS.

10.3.12 - John Mayer

0700 arrive at site

0730 tailgate safety by Optech, begin further demo to reveal tanks, saw cutting, jackhammer, removal of concrete and fill. Pumping liquid from UST's into 1 yd. liquid totes. Located top of 4200 at location 4, PID reads > 2000 PPM

1600 Depart site

10.4.12 John Moyer

0700 On site, safety meeting by Optech.
0730 Continued pumping of liquid from tanks. Continued hand digging around top of 4200's, found large flange on top, opened tank = approx: 12'Dx8'W with 18"? liquid in it. Top of tank is 4' below top of concrete floor. PPB rae = >2000 inside tank. Matt from DEC said to fill in place the tank at area #4 (4200) and if we find tank at area 3 do the same.
1300 Digging to locate tank at area #3
Vac truck on site to clean tanks.
1500 Backfilling the area 3 tank location, found what may be the fill/vent line at Heather's direction = not to chase it.
1530 Leaving site for day.

10.5.12 John Moyer

0700 Optech on site, safety meeting.
0830 Spoke with Heather + Matt again about looking a little further for tank at area 3, agreed to look more.
Pumping liquid from tank #5 into more 250 gal. totes. (arrived today)
Found tank at area #3, approx. 18" below top of concrete, 6'W x 8'6" D?, full of liquid, PID = >2000 PPM. Tank was approx. 15' from original markings. Tank #5 emptied, cleaning up all debris piles and cleaning down around sides of 1-5 to prep for pull on Monday; loosened 2, 3, 4, from the ground.
1300
1530 leave for the day.

Location ROCHESTER, NY Date 10/8/12

Project / Client STAUBS TEXTILE/WYSDE

161

MONDAY OCTOBER 8, 2012 IN 102,657
AM - CLOUDY, SHOWERS, 45° OUT 102,496
PM - M CLOUDY, 57°
0730 @ OFFICE LOAD SUPPLIES. DRIVE TO STAUBS. ARRIVE ONSITE @ 0930. OP-TECH ONSITE CITY of ROCHESTER FIRE MARSHALL S.I. ERSTENJUK ONSITE @ 0935 - MEETS INSIDE W/ OP-TECH RE PLAN TO REMOVE USTS #2-4, STAGE ON PLASTIC THEN BACKFILL SOME TO REMOVE UST #1 AND UST #5. PRESENTLY CLEANING + VACING OUT RINSE WATER FROM UST #5 INTO OP-TECH VAC TRUCK. REMOVE UST #4 W/ KUBOTA EXCAVATOR @ 1000 - PLACED ONTO PLASTIC SHEETING. UST #3 REMOVED TO SHEETING @ 1010. BOTTOM OF EXCAVATION IS DRY. UST #2 IS PULLED OUT @ 1020. OP-TECH HAS 4 GAS METER AND MEASURES BTM INSIDE UST PRIOR TO REMOVING EACH. UST #1 TAKEN OUT @ 1030. UST #1 ~ 9' LONG, ~4' Ø. USE SKID STEER TO LOAD UST #1 ONTO OP-TECH TRUCK. USTS ARE BEING DRIVEN TO METALICO #1

Location ROCHESTER, NY Date 10/8/12

S.R. Project / Client STAUBS TEXTILE / NYSDEC.

ERSTENUIK - 585 - 509 - 4650

SCOTTSVILLE, NY. UST # 1 WAS DRY, IT IS SENT OFF @ 1050. START BACKFILLING AREA # 1 EXCAVATION W/ SOILS STAGED IN CORNER OF DRY CLEANING ROOM. FIRE MARSHAL OFFSITE @ 1120 AS NO MORE USTS WILL BE REMOVED TODAY - MAY TRY AND OPEN UST # 5 UP IF POSSIBLE. OP-TECH TRUCK BACK ONSITE @ 1150. TAKE WLS @ PIEZOMETERS

	PID ppb	BTOC DTW	DTP	TD	NO ODOR & COMMENTS
P2-1	187 "	~13.41'	—	~14.08'	LID, WELL PAD, ASPHALT SETBACK
P2-2	147 "	DRY	—	~9.36'	—
P2-3	473"	~14.30'	—	~15.50	NO ODOR
P2-4	131 "	DRY	—	~10.89'	NEEDS J PLUG
P2-5	1847 ppm	~14.26'	—	~14.43'	SOFT BTM

CENTER OF UST IN AREA 3 (DRY CLEANING ROOM) IS ~9'5" FROM SIDE WALL, ~6' IN Ø. OP-TECH TRUCK LOADED W/ WASHED OUT USTS #2-4 PLUS PIPING OFFSITE @ 1340. START BUSTING UP CONCRETE OVER UST #5 AND BACKFILLING SOIL FROM CORNER OF DRY CLEANING ROOM, THEN FROM MAIN SOIL PILE. OP-TECH TRUCK BACK @ 1435. DRIVE VAC TRUCK TO OVERHEAD DOORWAY

951 E. MAIN ST.

Location ROCHESTER, NY Date 10/8/12

Project / Client STAUBS TEXTILE / ROCHESTER, NY

TO SUCK OUT UST #5. FINISH FOR DAY @ 1315, MOVE VAC TRUCK TO PARKING LOT, WILL HAVE TO FINISH CLEANING/SUCKING OUT SLUDGE FROM UST #5 IN AM AND OPEN UP SOME MORE CONCRETE TO REMOVE UST #5 (HAVE TO HAVE FIRE MARSHAL ON SITE) OP-TECH OFFSITE @ 1525. KC OFFSITE TO OFFICE @ OFFICE @ 1700

64°

TUESDAY 10/9/2012 IN 102,520

AM - MOSTLY SUNNY, 38° OUT 102,657

PM -

0600 @ OFFICE, DRIVE TO STAUBS ARRIVE @ 0720 - OP-TECH NOT YET ONSITE. WAIT TIL 0800 CALL J. MOYER - OP-TECH TOLD NO WORK TODAY BUT SHOW UP 10/10/12 AM. CALL HAF - DRIVE BACK TO TONAWANDA BACK @ 1000. CALL DK @ PARATT-WOLFF FOR 0930 START TIME TO DRILL BEDROCK WELL 10/10/2012. DOWN LOAD PHOTOS TAKEN 10/8/12.

Location 951 E. MAIN ST ROCHESTER NY Date 10/10/12

Project / Client STAUBS TEXTILE / NYSDEC

BEDROCK WELL

170

AM - M. SUNNY, 45°. LT SHOWERIN 102,991
PM - CLOUDY → M. SUNNY, WINDY, 45° OUT 102,820
0715 LEAVE FOR ROCHESTER, NY STOP FOR ZIPLOC BAGS IN CHILL, NY. ARRIVE ONSITE @ 0845 - PW ONSITE, WAITING FOR VAC TRUCK TO ARRIVE FOR UTILITY CLEARANCE. VAC TRUCK ONSITE @ 0855. HOLD TAILGATE MTG W/ SEAN, MARK + MIKE. CALIBRATE PID - 0 ppb FRESH AIR - 100 ppm ISOBUTYL CAL GAS 2X - CANISTER SEEMS TO BE EMPTY - CALL PINE + TALK W/ TIM - CAN'T USE 100 ppm ISOBUYT CANISTER - THEY WILL SEND NEW CANISTER IF NEEDED. PW ON-COUNTERS ~12" UNMARKED LINE BELOW ~3½' BGL. MOVE LOCATION ~3½ TOWARDS BLDG. AND RE-START CLEARANCE @ 0950. PULL OUT COBBLE + BOULDER (SMALL) SIZE GRAVELS. FINISH CLEARING 2ND HOLE @ 1020. REFILL 1ST HOLE W/ SOIL + LAY DOWN GRASS MATS FOR DRLG RIG. START DRIVING SSPs @ 1100. ~~SSP REFUSAL @ ~11.7' BGL @ 1135.~~ SSP REFUSAL @ ~25' BGL @ 1305. CALL HAF + MATT D (NYSDEC RE BED ROCK CORING AS IMPACT IS SEEN IN UNCONSOLIDATED DEPOSITS. MATT SAYS

Location ROCHESTER, NY Date 10/10/12

Project / Client STAUBS TEXTILE / NYSDEC

TO PUT WELL IN W/O BEDROCK COMING IN START 2" PVC WELL (10 SLOT SCREEN, "0" SAND, 15' SCREEN LENGTH). OP-TECH AND J. MOYER OFFSITE @ 1540. WELL INSTALLED @ 1600. CONSTRUCT WELL PAD. ▽ @ ~15.7' BGL @ 1610. PRESSURE WASH HSAs + SSPs. PW OFFSITE @ 1715, KC SHUTS GATE, CLOSE UP BLDG, OFFSITE @ 1720. BACK @ OFFICE @ 1845.

THURSDAY OCTOBER 11, 2012
CALIBRATE PID 3X DUE TO "0 ppb - 0 NEG" DISPLAY AFTER CALLING PINE ENV. 2X TO DIAGNOSE PROBLEM ZERO CAL OK, 150BUT CAL 9978 ppb. SCREEN SOIL SAMPLES COLLECTED @ BRL/MW 1 10/10/12. DOWN LOAD NOTES + PIX TO LATHAM SERVER.

10/11/12

Location ROCHESTER, NY Date 10/1/12

Project / Client STAUBS TEXTILE / NYSDEC

UST CLOSURE

AM - M. SUNNY, 55° PM - 161

0630 @ OFFICE, LOAD SUPPLIES IN 102, Z-03 DRIVE TO STAUBS, ONSITE OUT 102,082 @ 0840. ADMAR HAS DELIVERED GEHL BOBCAT, 3 INDUSTRIAL FANS, CONCRETE CORE/CUT MACHINE, KUBOTA KX121-3 EXCAVATOR AND HOE RAM ATTACHMENT. HEATHER F. ~~SCHRAMM~~ ~~SAUER~~ (DEC) ONSITE @ 0905. CHAD ? WILL WILL (OP-TECH) ONSITE @ 0920. HAF/J/KC LOCATE BEDROCK WELL LOC IN GRASS. LUKE ? MIKE. (OP-TECH) ONSITE HOLD TAILGATE MTG @ 1000. CHAD WOULD LIKE TO OPEN ALL UST AREAS TO CONFIRM PRESENCE OF TANKS. OP-TECH MOVES EQUIPMENT INTO BLDG. SET UP CONCRETE SAW @ ~~SMALL UST~~ SOURCE AREA NEAR OVERHEAD DOOR @ 1100. (DRY CLEANING ROOM) SET UP 2 INDUSTRIAL FANS @ OHD. SET UP MULTIGAS MONITOR START HOE RAM @ MULTI-UST LOCATION @ RAMP. START SAW CUTTING @ 1120. BUST UP CONCRETE RAMP AND SWITCH OVER TO EXCAVATOR BUCKET - UNCOVER METAL PIPE BELOW ~ 1 1/2'. SOIL IS IMPACTED (193 ppm) W/ SOLVENT ODOR

100 Location ROCHESTER, NY Date 10/1/12

Project / Client

588 ppm. HAVE PIPES AND CONCRETE FOOTER (?) IN EXCAVATION. WILL SWITCHES BACK OVER TO HOE RAM - START BUSTING CONCRETE AGAIN @ 1200. SOIL IS BROWN, DRY, LOOSE SSi-SiSW/ SOME F-C GRAVEL, SURROUNDED COBBLES. SWITCH TO 3' EXCAVATOR BUCKET @ 1220 TO REMOVE BUSTED CONCRETE + SOIL. COME ACROSS 4" PVC LINE CONNECTED BY FURNCO TO STEEL PIPE THAT LINES UP W/ PLUGGED STUB ON OTHER SIDE OF FORMER OUTSIDE WALL. PID PEGS @ >1999 ppm FROM INSIDE PVC PIPE. START BACK W/ HOE RAM @ 1240 TO BUST UP 2ND LAYER of CONCRETE BELOW ORIGINAL SURFICIAL CONCRETE. SWITCH OVER TO 3' BUCKET @ 1305. BEGIN SAWCUTTING @ UST LOCATION NEAR NEW SHIPPING DOCK @ 1515. COME ACROSS ADDL PIPES WHEN EXCAVATING NEAR RAMP AREA PID > 350 ppm. FIND TANK FILL OPENING NEAR HORIZONTAL + VERTICAL PIPE. CUT 4" STEEL PIPE (? ROOF DRAIN) W/ SAWZALL @ 1415. ~~MATT~~ + HAF offsite @ 1505. COLLECT SOIL SAMPLE @ UNCOVERED UST @ 1510 FOR TCLP ANALYSIS. CALL REGGIE

Location 134685.2402 Date 10/1/12 101

Project / Client STAUBS TEXTILE / NYSDEC

ST. JUSTE (908) 789-8900 RE PARAMETERS CALL N² FOR SAME, HAF FOR TRIP BLANK. - FIND OUT NO TRIP BLANK SHIPPED W/ COOLERS... OP-TECH OFF-SITE @ 1600. KC VS W/ PIKE TO SEE IF FED-EX DELIVERIES COULD BE SENT TO PIKE (OK IF ONLY OCCASIONAL) ICC OFFSITE @ 1615, GET GAS. OP-TECH STAGED SOIL ON PLASTIC, COVER, STAGE CONCRETE. @ OFFICE FOR SUPPLIES, GO TO UPS TO SHIP SAMPLE 1830.

179

TUESDAY OCTOBER 2, 2012 IN 102,421
AM - CLOUDY, 55° OUT 102,243
PM - CLOUDY, 62°, DRIZZLE.

0715 LEAVE FOR STAUBS AFTER DR APPT. ARRIVE @ ~0825 - MEET W/ J. MOYER. EXPLAIN ACTIVITY SO FAR. OP-TECH MOVING CONCRETE FROM DRY CLEANING ROOM + HOE RAMMING SMALL TANK AREA ESE OF 6 UST EXCAVATION. COME UPON BLACK IRON PIPE RUNNING ACROSS OPENED AREA ~ 1.5' BGL (? SEWER OR RAIN WATER?). CUT CONCRETE

Location ROCHESTER, NY Date 10/2/2012

Project / Client STAUBS TEXTILE/NYSDEC

WITH CHOPSAW

OUT FURTHER A ON EAST SIDE OF CUT TO EXPAND OPENING SO EXCAVATOR BUCKET CAN DIG TO CONFIRM IF UST PRESENT. KC MARKS OUT PURPORTED END OF 6 USTS' LOCATION W/ PAINT - LINES UP W/ LINES OF 4" PVC HOLES IN FLOOR. EXCAVATE W/ NARROW BUCKET ON EAST SIDE OF PIPE. JOHN MENTIONS THAT LOU @ PINE ENV. SAYS A PID RAE IS TOO SENSITIVE TO USE ON A TANK PULL JOB - THAT HIGH LEVELS WILL CAUSE CALIBRATION PROBLEMS. HOE RAM CUT CONCRETE THEN USE WIDER BUCKET TO DIG DEEPER. DIG DOWN TO ~ 4½ BGL - ONLY BROWN SOIL, GRAVEL, COBBLES W/ SMALL BOULDERS W/ SOLVENT ODOR (~150 ppm) - SWITCH BACK TO NARROW BUCKET. DIG TO ~ 6' BGL - NO UST OR PIPES EVIDENT @ 1010. FILL EXCAVATION BACK IN. JOHN M CALLS THIS AREA 2. (AREA 1 IS THE 6 UST EXCAVATION. @ 1035 COME ACROSS 2ND UST NEXT TO UST #1 - UST BOTTOM IS ~ 10.5' FROM EXPOSED PIPE OPENING; HAS DRY BOTTOM - GET E MAIL TO JOHN'S PHONE SAYING MATT DUNHAM (NYSDEC) WANTS TO PULL USTS INSTEAD OF ABANDONING THEM IN

Location ROCHESTER, NY Date 10/2/2012

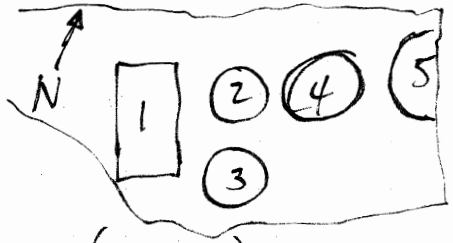
Project / Client STAUBS TEXTILE/NYSDEC

PLACE. FIND PIPE RUNS IN AREA #1. DIG AROUND UST #1 TO FIND TOP OF TANK. EXCAVATED SOIL BEING PLACED ON PLASTIC SHEETING LAID DOWN INSIDE 10/1/12. FIND TOP OF UST #1 @ 1125. UST #2 IS SITUATED VERTICALLY W/ RIVETED TOP. 3RD INDUSTRIAL FAN SET UP @ TOP OF RAMP TO VENTILATE AREA #1 WHILE EXCAVATING. JOHN M OFFSITE @ 1210 TO GET TRUCK INSPECTED/SERVICED. FIND 3RD UST JUST SOUTH OF 2ND UST - IT ALSO IS A VERTICAL UST. GO FOR LUNCH (½ HR.) CLEAN UP CUT PIPE SECTIONS AND ATTACH HOE RAM TO KUBOTA TO BUST UP CONCRETE TO THE SOUTH OF AREA 1 PRESENT EXCAVATION - UST #3 AND SOUTH END OF UST #1 ARE UNDER THIS SECTION. FIND END OF UST #1 @ 1400. ~ 8½' LONG BY ~ 4½' Ø. UST #2: 5'4" DEEP X 3'4" Ø - BOTTOM SLIGHTLY WET. (UST #1 IS DRY). 4TH UST FOUND (UST #4) NEXT TO UST #2 - ALSO VERTICAL. NATIVE SOILS USED FOR BACKFILL DURING UST INSTALL - COBBLES

Location ROCHESTER, NY Date 10/2/12

Project / Client STAUBS TEXTILE / NYSDEC

AND BOULDERS EVIDENT. UST FULL OF (?) WATER, ~5 ~~3~~ ½' DEEP, SOME SOLIDS / SLUDGE ON BOTTOM ACCORDING TO WILL FIFTH



APPROXIMATE EXCAVATION LIMITS

UST (UST # 5) FOUND TO EAST OF UST # 4 @ 1440. APPEARS TO BE VERTICAL AS WELL - TOP IS @ HIGHER ELEVATION THAN USTs 2 OR 4. UST # 3 IS ~ 5'Ø, ~6' DEEP W/ ? WATER IN IT, PEEL PIECE OF UST # 4 TOP BACK SO JOHN CAN SAMPLE LIQUID - SAMPLES @ 1500 - HAS SLIGHT SOLVENT SMELL TO IT (884 ppm IN UST # 4's HEADSPACE), SWITCH BACK OVER TO HOE RAM TO BUST MORE CONCRETE. JOHN SAMPLES LIQUID IN UST # 3 @ 1505. UST # 5 IS ~ 7½' Ø x 7½' DEEP - (~3'3" TO TOP OF LIQUID). DEPTH TO LIQUID @ UST 3 IS ~3'6". JOHN COLLECTS SAMPLE @ TANK #5 @ 1530. SOILPILE IS ~15' x 10' x 3" ~17 CY. TARP W/ HAF - OFFSITE TO OFFICE @ 1550 TO SEND DATA. BACK @ OFFICE @ 1715 - UNLOAD TRUCK.

Location Date

Project / Client

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO.
COC Number 024646

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: SHAW ENVIRONMENTAL, INC.
ADDRESS: 13 BRITISH AMERICAN BLVD
CITY: LATHAM STATE: NY ZIP: 12110
ATTENTION: HEATHER FARIELLO
PHONE: 518-785-2346 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STAUBS TEXTILE
PROJECT NO.: 134685 LOCATION: ROCHESTER, NY
PROJECT MANAGER: HEATHER FARIELLO
e-mail: HEATHER.FARIELLO@SHAWGRP.COM
PHONE: 518-785-2346 FAX:

CLIENT BILLING INFORMATION

BILL TO: SHAW ENVIRONMENTAL PO#:
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION: S. SLATER PHONE: 518-783-1996

DATA TURNAROUND INFORMATION

FAX: 3 DAY TAT DAYS *
HARD COPY: DAYS *
EDD: DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☐ Others
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☐ EDD Format:

ANALYSIS

1 TCLP VOAs
2 TCLP SVOAs
3 PESTICIDES/PCBs
4 HERBICIDES
5 TCLP METALS + Hg
6 PCBs
7 IGNITABILITY
8 CORROSIVITY
9 REACTIVITY

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	SOIL OVER UST #1	SOIL		X	10/1/12	1510	2	X	X	X	X	X	X	X	X	X	3 DAY TAT
2.	TRIP BLANK																
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	10/1/12	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp.
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments: Ice in Cooler?:

Page of

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

UPS Next Day Air
UPS Worldwide Express[SM]

Shipping Document

See instructions on back. Visit UPS.com® or call 1-800-PICK-UPS® (800-742-5877) for additional information and Terms and Conditions.

TRACKING NUMBER 1Z 73V 325 22 1000 864 5

1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO. 73V325

REFERENCE NUMBER 134685.2502

NAME Kevin Cronin

TELEPHONE 518-783-1996

COMPANY SHAW ENVIRONMENTAL, INC.

STREET ADDRESS 13 BRITISH AMERICAN BLVD.

CITY AND STATE LATHAM NY ZIP CODE 12110 1405

2 EXTREMELY URGENT DELIVERY TO

NAME SAMPLE RECEIPT TELEPHONE 908 789-8900

COMPANY CHEMTECH

STREET ADDRESS 284 SHEFFIELD ST DEPT./FLR. Residential Delivery ☐

CITY AND STATE (INCLUDE COUNTRY IF INTERNATIONAL) MOUNTAINSIDE NJ ZIP CODE 07092

WEIGHT Enter "LTR" if Letter 14 | DIMENSIONAL WEIGHT If Applicable | LARGE AIR PACKAGE ☐ | SHIPPER RELEASE ☐

		CHARGES
5 TYPE OF SERVICE	☒ NEXT DAY AIR ☐ EXPRESS (INT'L)	
	FOR WORLDWIDE EXPRESS SHIPMENTS Mark an "X" in this box if shipment only contains documents of no commercial value. ☐ DOCUMENTS ONLY	$
6 OPTIONAL SERVICES	☐ SATURDAY PICKUP See instructions. ☐ SATURDAY DELIVERY See instructions.	$
	☐ DECLARED VALUE FOR CARRIAGE Contents are automatically protected up to $100. For declared value over $100, see instructions. $ AMOUNT	$
	☐ C.O.D. If C.O.D. enter amount to be collected and attach completed UPS C.O.D. tag to package. $ AMOUNT	$
7 ADDITIONAL HANDLING CHARGE	☐ An Additional Handling Charge applies for certain items. See instructions.	$
TOTAL CHARGES		$
8 METHOD OF PAYMENT	☒ BILL SHIPPER'S ACCOUNT NUMBER SECTION 1 ☐ BILL RECEIVER ☐ BILL THIRD PARTY (DOMESTIC ONLY) RECORD ACCOUNT NO. IN SECTION 9 ☐ CREDIT CARD American Express Diner's Club MasterCard Visa	☐ CHECK

9 RECEIVER'S/THIRD PARTY'S UPS ACCT. NO. OR MAJOR CREDIT CARD NO. EXPIRATION DATE /

THIRD PARTY'S COMPANY NAME

STREET ADDRESS

CITY AND STATE ZIP CODE

The shipper authorizes UPS to act as forwarding agent for export control and customs purposes. The shipper certifies that these commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

10 SHIPPER'S SIGNATURE X Kevin Cronin

All shipments are subject to the terms contained in the UPS Tariff and Terms and Conditions of Service, which are available at UPS.com and local UPS offices.

DATE OF SHIPMENT 10/1/12

0101911202609 1/05 MW SHIPPER'S COPY

Unless a greater value is recorded in writing on this receipt, the shipper agrees that the released value of each domestic package or international shipment covered by this receipt is no greater than $100, which is a reasonable value under the circumstances surrounding the transportation, and that UPS shall not be liable for more than $100 per each domestic package or international shipment. In addition, the maximum value per package is $50,000, except for packages shipped via a UPS Drop Box, or packages containing jewelry (not including costume jewelry) shipped via UPS international service, in which case the maximum liability per package assumed by UPS shall not exceed $500 per package. The maximum liability per package assumed by UPS shall not exceed $50,000, except for packages shipped via a UPS Drop Box, or packages containing jewelry (not including costume jewelry) shipped via UPS International service, in which case the maximum value is $500, regardless of the value in excess of the maximum. For complete details of the limitations on UPS's liability, including the definition of Articles of Unusual Value for which UPS assumes no liability, see the UPS Tariff at www.UPS.com.

Drop-Off Package Receipt: 1 of 1

THIS IS NOT A SHIPPING LABEL. PLEASE SAVE FOR YOUR RECORDS.

DROP-OFF LOCATION:
UPS CC CHEEKTOWAGA NY
269 CAYUGA RD
CHEEKTOWAGA NY 14225

DROP-OFF DATE/TIME:
Mon 1 Oct 2012 7:06 PM

ESTIMATED PICKUP DATE:
UPS (Air) Mon 1 Oct 2012 1 pkg

CUSTOMER:
cronin
ID Type: Not Provided

TOTAL PACKAGES: 1 pkg

TRACKING NUMBER	CARRIER & SERVICE	wt(lbs)
1Z73V3252210008645	UPS Next Day	13.600

This receipt lists each package received by UPS CC CHEEKTOWAGA NY and indicates that the information for each package has been transmitted to each carrier's data system. This receipt is not confirmation that the carrier has picked up the packages. To verify when and if a package has been picked up, go to iship.com/trackit/track.asp and enter the tracking numbers listed above.

You acknowledge that the shipment services provided by UPS CC CHEEKTOWAGA NY for the listed packages are subject to and governed by each Carrier Agreement, if applicable, the Rates and Service Guide for each carrier, and the tariff in effect at the time of shipment.

Location ROCHESTER, NY Date 10/1/12

Project / Client STAUBS TEXTILE / NYSDEC

UST CLOSURE

AM - M. SUNNY, 55° PM 1GT

0630 @ OFFICE, LOAD SUPPLIES IN 102, 263
DRIVE TO STAUBS, ONSITE OUT 102, 082
@ 0840 ADMAR HES DELIVERED GEN.
BOBCAT, 3 INDUSTRIAL FANS, CONCRETE
CORE/CUT MACHINE, KUBOTA KX121-3
EXCAVATOR AND HOE RAM ATTACHMENT.
HEATHER F ~~SCHRAMM~~ JASON (DEC) ONSITE @ 0905.
CHAD ~~WELL~~ WELL (OP-TECH) ONSITE @ 0920.
HAF/J/KC LOCATE BEDROCK WELL LOC IN
GRASS. LUKE & MIKE (OP-TECH) ONSITE
HOLD TAILGATE MTG @ 1000. CHAD
WOULD LIKE TO OPEN ALL UST AREAS
TO CONFIRM PRESENCE OF TANKS.
OP-TECH MOVES EQUIPMENT INTO BLDG.
SET UP CONCRETE SAW @ ~~SOUTH~~ UST SOURCE
AREA NEAR OVERHEAD DOOR @ 1100. (DRY
CLEANING ROOM) SET UP 2 INDUSTRIAL
FANS @ OHD. SET UP MULTIGAS MONITOR
START HOE RAM @ MULTI-UST LOCATION
@ RAMP. START SAW CUTTING @ 1120.
BUST UP CONCRETE RAMP AND SWITCH
OVER TO EXCAVATOR BUCKET - UNCOVER
METAL PIPE BELOW ~ 1½' SOIL IS IM-
PACTED (193 ppm) W/ SOLVENT ODOR

100 Location ROCHESTER, NY Date 10/1/12

Project / Client

588 ppm. HAVE PIPES AND CONCRETE FOOTER (?) IN EXCAVATION. WILL SWITCHES BACK OVER TO HOE RAM - START BUSTING CONCRETE AGAIN @ 1200. SOIL IS BROWN, DRY, LOOSE SSi-SiSW/ SOME F-C GRAVEL, SURROUNDED COBBLES. SWITCH TO 3' EXCAVATOR BUCKET @ 1220 TO REMOVE BUSTED CONCRETE + SOIL. COME ACROSS 4" PVC LINE CONNECTED BY FURNCO TO STEEL PIPE THAT LINES UP W/ PLUGGED STUB ON OTHER SIDE OF FORMER OUTSIDE WALL. PID PEGS @ >1999 ppm FROM INSIDE PVC PIPE. START BACK W/ HOE RAM @ 1240 TO BUST UP 2ND LAYER of CONCRETE BELOW ORIGINAL SURFICIAL CONCRETE. SWITCH OVER TO 3' BUCKET @ 1305. BEGIN SAW CUTTING @ UST LOCATION NEAR NEW SHIPPING DOCK @ 1515. COME ACROSS ADDL PIPES WHEN EXCAVATING NEAR RAMP AREA PID > 350 ppm. FIND FILL OPENING NEAR HORIZONTAL + VERTICAL PIPE. CUT 4" STEEL PIPE (? ROOF DRAIN) W/ SAWZALL @ 1415. ~~MATT~~ + HAF OFFSITE @ 1505. COLLECT SOIL SAMPLE @ UNCOVERED UST @ 1510 FOR TCLP ANALYSIS. CALL REGGIE

Location 134685.2402 Date 10/1/12 (10/2/12)

Project / Client STAUBS TEXTILE / NYSDEC

ST. JUSTE (908) 789-8900 RE PARAMETERS CALL N² FOR SAME, HAF FOR TRIP BLANK. - FIND OUT NO TRIP BLANK SHIPPED W/ COOLERS... OP-TECH OFFSITE @ 1600. KC V/S W/ PIKE TO SEE IF FED-EX DELIVERIES COULD BE SENT TO PIKE (OK IF ONLY OCCASIONAL) ICC OFFSITE @ 1615, GET GIAS. OP-TECH STAGED SOIL ON PLASTIC, COVER, START CONCRETE @ OFFICE FOR SUPPLIES, GO TO UPS TO SHIP SAMPLE 1830.

179

TUESDAY OCTOBER 2, 2012 IN 602,424
AM - CLOUDY, 55° OUT P 2,243
PM - CLOUDY, 62°, DRIZZLE

0715 LEAVE FOR STAUBS AFTER DR APPT. ARRIVE @ ~0825 - MEET W/ J. MOYER, EXPLAIN ACTIVITY SO FAR. OP-TECH MOVING CONCRETE FROM DRY CLEANING ROOM + HOE RAMMING SMALL TANK AREA ESE OF 6 UST EXCAVATION. COME UPON BLACK IRON PIPE RUNNING ACROSS OPENED AREA ~ 1.5' BGL (? SEWER OR RAIN WATER?). CUT CONCRETE

Location ROCHESTER, NY Date 10/2/2012

Project / Client STAUBS TEXTILE / NYSDEC

WITH CHOPSAW

OUT FURTHER A ON EAST SIDE OF CUT TO EXPAND OPENING SO EXCAVATOR BUCKET CAN DIG TO CONFIRM IF UST PRESENT. KC MARKS OUT PURPORTED END OF 6 USTS' LOCATION W/ PAINT - LINES UP W/ LINES OF 4" PVC HOLES IN FLOOR. EXCAVATE W/ NARROW BUCKET ON EAST SIDE OF PIPE. JOAN MENTIONS THAT LOU @ PINE ENV. SAYS A PID RAE IS TOO SENSITIVE TO USE ON A TANK FULL JOB - THAT HIGH LEVELS WILL CAUSE CALIBRATION PROBLEMS. HOE RAM CUT CONCRETE THEN USE WIDER BUCKET TO DIG DEEPER. DIG DOWN TO ~4½ BGL - ONLY BROWN SOIL, GRAVEL, COBBLES W/ SMALL BOULDERS W/ SOLVENT ODOR (~150 ppm) - SWITCH BACK TO NARROW BUCKET. DIG TO ~6' BGL - NO UST OR PIPES EVIDENT @ 1010. FILL EXCAVATION BACK IN. JOHN M CALLS THIS AREA 2. (AREA 1 IS THE 6 UST EXCAVATION. @ 1035 COME ACROSS 2ND UST NEXT TO UST #1 - UST BOTTOM IS ~ 10.5' FROM EXPOSED PIPE OPENING; HAS DRY BOTTOM - GET E MAIL TO JOHN'S PHONE SAYING MATT DUNHAM (NYSDEC) WANTS TO PULL USTS INSTEAD OF ABANDONING THEM IN

Location ROCHESTER, NY Date 10/2/2012

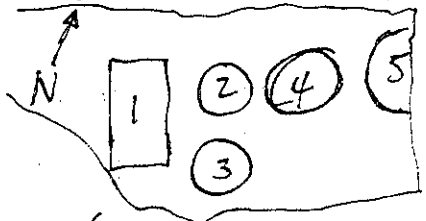
Project / Client STAUBS TEXTILE / NYSDEC

PLACE. FIND PIPE RUNS IN AREA #1. DIG AROUND UST #1 TO FIND TOP OF TANK. EXCAVATED SOIL BEING PLACED ON PLASTIC SHEETING LAID DOWN INSIDE 10/1/12. FIND TOP OF UST #1 @ 1125. UST #2 IS SITUATED VERTICALLY W/ RIVETED TOP. 3RD INDUSTRIAL FAN SET UP @ TOP OF RAMP TO VENTILATE AREA #1 WHILE EXCAVATING. JOHN M OFFSITE @ 1210 TO GET TRUCK INSPECTED/SERVICED. FIND 3RD UST JUST SOUTH OF 2ND UST - IT ALSO IS A VERTICAL UST. GO FOR LUNCH (½ HR.) CLEAN UP CUT PIPE SECTIONS AND ATTACH HOE RAM TO KUBOTA TO BUST UP CONCRETE TO THE SOUTH OF AREA 1 PRESENT EXCAVATION - UST #3 AND SOUTH END OF UST #1 ARE UNDER THIS SECTION. FIND END OF UST #1 @ 1400. ~8½' LONG BY ~4½' Ø. UST #2: 5'4" DEEP X 3'4" Ø - BOTTOM SLIGHTLY WET (UST #1 IS DRY). 4TH UST FOUND (UST #4) NEXT TO UST #2 - ALSO VERTICAL. NATIVE SOILS USED FOR BACKFILL DURING UST INSTALL - COBBLES

Location ROCHESTER, NY Date 10/2/12

Project / Client STAUBS TEXTILE / NYSDEC

AND BOULDERS EVIDENT. UST FULL OF (?) WATER ~ 5 ½' DEEP, SOME SOLIDS / SLUDGE ON BOTTOM ACCORDING TO WILL FIFTH



APPROXIMATE EXCAVATION LIMITS

UST (UST # 5) FOUND TO EAST OF UST # 4 @ 1440. APPEARS TO BE VERTICAL AS WELL - TOP IS @ HIGHER ELEVATION THAN USTs 2 OR 4. UST # 3 IS ~ 5'Ø, ~ 6' DEEP W/ ? WATER IN IT, PEEL PIECE OF UST # 4 TOP BACK SO JOHN CAN SAMPLE LIQUID - SAMPLES @ 1500 - HAS SLIGHT SOLVENT SMELL TO IT (684 ppm IN UST # 4's HEADSPACE), SWITCH BACK OVER TO HOE RAM TO BUST MORE CONCRETE. JOHN SAMPLES LIQUID IN UST # 3 @ 1505. UST # 5 IS ~ 7½' Ø x 7½' DEEP - (~ 3'3" TO TOP OF LIQUID). DEPTH TO LIQUID @ UST 3 IS ~ 3'6". JOHN COLLECTS SAMPLE @ TANK # 5 @ 1530. SOIL PILE IS ~ 15' x 10' x 3" ~ 17 CY. TALK W/ HAF - OFFSITE TO OFFICE @ 1550 TO SEND DATA. BACK @ OFFICE @ 1715 - UNLOAD TRUCK.

Location Date

Project / Client

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHAIN OF CUSTODY RECORD

CHEMTECH PROJECT NO.
QUOTE NO.
COC Number: 024646

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: SHAW ENVIRONMENTAL, INC.
ADDRESS: 13 BRITISH AMERICAN BLVD
CITY: LATHAM STATE: NY ZIP: 12110
ATTENTION: HEATHER FALUELLO
PHONE: 518-785-2346 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STAUBS TEXTILE
PROJECT NO: 134685 LOCATION: ROCHESTER, NY
PROJECT MANAGER: HEATHER FALUELLO
e-mail: HEATHER.FALUELLO@SHAWGRP.COM
PHONE: 518-785-2346 FAX:

CLIENT BILLING INFORMATION

BILL TO: SHAW ENVIRONMENTAL
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION: S. SLATER PHONE: 518-783-1996

DATA TURNAROUND INFORMATION

FAX: 3 DAY TAT DAYS*
HARD COPY: DAYS*
EDD: DAYS*
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☐ Others
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☐ EDD Format:

ANALYSIS

1 TCLP VOA's
2 TCLP SVOA's
3 PESTICIDES/PCBS
4 HERBICIDES
5 TCLP METALS #4's
6 PCBs
7 IGNITABILITY
8 CORROSIVITY
9 REACTIVITY

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES E	1	2	3	4	5	6	7	8	9	COMMENTS
1.	SOIL OVER UST #1	SOIL		X	10/1/12	1510	2		X	X	X	X	X	X	X	X	X	3 DAY TAT
2.	TRIP BLANK																	
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

Specify Preservatives
A–HCl B–HNO_3 C–H_2SO_4 D–NaOH E–ICE F–Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	10/1/12	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp.:
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
Ice in Cooler?:

Page of

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT
Shipment Complete: ☐ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

UPS Next Day Air
UPS Worldwide Express℠

Shipping Document

See instructions on back. Visit UPS.com® or call 1-800-PICK-UPS® (800-742-5877) for additional information and Terms and Conditions.

TRACKING NUMBER 1Z 73V 325 22 1000 864 5

1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO. 73V325

REFERENCE NUMBER 134685.2502

NAME Kevin Cronin TELEPHONE 518-783-1996

COMPANY SHAW ENVIRONMENTAL, INC.

STREET ADDRESS 13 BRITISH AMERICAN BLVD.

CITY AND STATE LATHAM NY ZIP CODE 12110 1405

2 EXTREMELY URGENT DELIVERY TO

NAME Sample Receipt TELEPHONE 908 789-8900

COMPANY Chemtech

STREET ADDRESS 284 Sheffield St DEPT./FLR. Residential Delivery ☐

CITY AND STATE (INCLUDE COUNTRY IF INTERNATIONAL) Mountainside, NJ ZIP CODE 07092

WEIGHT Enter "LTR" if Letter 14 | DIMENSIONAL WEIGHT If Applicable | LARGE PACKAGE ☐ | SHIPPER RELEASE ☐ | 1 1

CHARGES

5 TYPE OF SERVICE ☒ NEXT DAY AIR ☐ EXPRESS (INT'L) $
FOR WORLDWIDE EXPRESS SHIPMENTS Mark an "X" in this box if shipment only contains documents of no commercial value. ☐ DOCUMENTS ONLY

6 OPTIONAL SERVICES ☐ SATURDAY PICKUP See Instructions. ☐ SATURDAY DELIVERY See Instructions. $
☐ DECLARED VALUE FOR CARRIAGE Contents are automatically protected up to $100. For declared value over $100, see instructions. $ AMOUNT $
☐ C.O.D. If C.O.D. enter amount to be collected and attach completed UPS C.O.D. tag to package. $ AMOUNT $

7 ADDITIONAL HANDLING CHARGE ☐ An Additional Handling Charge applies for certain items. See instructions. $

TOTAL CHARGES $

8 METHOD OF PAYMENT ☒ BILL SHIPPER'S ACCOUNT NUMBER Section 1 | ☐ BILL RECEIVER ☐ BILL THIRD PARTY Domestic Only Record Account No. In Section 9 | ☐ CREDIT CARD American Express Diner's Club MasterCard Visa | ☐ CHECK

9 RECEIVER'S/THIRD PARTY'S UPS ACCT. NO. OR MAJOR CREDIT CARD NO. EXPIRATION DATE /

THIRD PARTY'S COMPANY NAME

STREET ADDRESS

CITY AND STATE ZIP CODE

The shipper authorizes UPS to act as forwarding agent for export control and customs purposes. The shipper certifies that these commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

10 SHIPPER'S SIGNATURE X Kevin Cronin

All shipments are subject to the terms contained in the UPS Tariff and Terms and Conditions of Service, which are available at UPS.com and local UPS offices. DATE OF SHIPMENT 10/1/12

0101911202609 1/05 MW SHIPPER'S COPY

Drop-Off Package Receipt: 1 of 1

THIS IS NOT A SHIPPING LABEL. PLEASE SAVE FOR YOUR RECORDS.

DROP-OFF LOCATION:
UPS CC CHEEKTOWAGA NY
269 CAYUGA RD
CHEEKTOWAGA NY 14225

DROP-OFF DATE/TIME:
Mon 1 Oct 2012 7:06 PM

ESTIMATED PICKUP DATE:
UPS (Air) Mon 1 Oct 2012 1 pkg

CUSTOMER:
cronin
ID Type: Not Provided

TOTAL PACKAGES: 1 pkg

TRACKING NUMBER	CARRIER & SERVICE	wt(lbs)
1Z73V3252210008645	UPS Next Day	13.600

This receipt lists each package received by UPS CC CHEEKTOWAGA NY and indicates that the information for each package has been transmitted to each carrier's data system. This receipt is not confirmation that the carrier has picked up the packages. To verify when and if a package has been picked up, go to iship.com/trackit/track.asp and enter the tracking numbers listed above.

You acknowledge that the shipment services provided by UPS CC CHEEKTOWAGA NY for the listed packages are subject to and governed by each Carrier Agreement, if applicable, the Rates and Service Guide for each carrier, and the tariff in effect at the time of shipment.

"Rite in the Rain®"
ALL-WEATHER WRITING PAPER

Name Shaw Env. Inc

Address 13 British American Blvd, Latham 12110

Phone 518 783-1996

Project

* Project Mgr:
Heather Fariello
518 785-2346

Proj. Staubs
Proj # 134685-2405
File Code:

CONTENTS

PAGE	REFERENCE	DATE
-	LATHAM UPS # 73V325	
-	STAUBS' UPS REFERENCE #: 00501.134685.4701.2402	

M 10/1/12 Heather Fariello (HFF)
Staubs Textile UST
removal
weather 60s, partly cloudy
wind ~5 mph
objective remove 9 indoor
USTs
0905 Heather Fariello (Shaw) and
Matt Dunham (NYSDEC)
arrive on-site. Kevin
Cronin already here.
0910 Decision made if no
tank present - we are
not going searching for
it.
0915 choose location for bedrock
monitoring well.
0920 Op Tech (Chadd + Will)
on-site. Waiting for owner
Mike Myers & Luke Kays
(Op Tech will be coming)
0925 Luke + Mike on site
0930 Begin site. Mr. Marcus
opened bldg
0940 open gate; move cars

Staubs Textile M. 10/1/12
and trucks.
0947 Kevin holds tailgate
safety mtg.
0955 Begin job set up
1030 Move rented equip
inside (from ADMAR)
• KX121-3 (Kubota)
(GEHL) • skid steer 6640 turbo
• concrete cutter #33749
1040 Set KX121-3 on tank
farm. Kevin Col. equip-
planning on restoring
apron unless we
get permission from
Mr. Markus otherwise
~~Begin saw cutting~~ (HFF)
~~@ high PCE location~~ (HFF)
1103 Begin at tank farm
using KX121-3
1112 Begin saw cutting @
PCE origin sample loc.
1138 Soil removed from
tank farm area =
193 ~~ppb~~ ppm
HFF 10/2/12 Heather Fariello

M. 10/1/12 Heather + Jaiello

1141 Soil pile reading 588 ppm

1150 Chadd off site. Currently see no tanks up tank farm area but found pipes heading up ramp towards "Stoddard solvent tank"

1155 Resume saw cutting around PCE tank. HAF 10/1/12

1200 Mike & Luke take break.

1221 uncover pipe → peep ppm. Slab underneath slab. Decision made to remove/dull 2nd slab. Matt would dig pipe removed as well.

~1230 Mike & Luke back from break. Will take break both while other 2 continue excavation/breaking up concrete

1250 Will back from lunch

Staubs Textile M. 10/1/12

1310 Find upipe Excavation pegging PID.

1328 encounter more pipe

1350 find tank pipe → tank ~2 feet below. PID peg when stuck in pipe

1410 Find potential second pipe. Mike saw cutting 4200 gal tank. Talk with Will → only are crew tomorrow chance slim they will finish by Friday. Plan tomorrow is to finish locating all tanks.

1415 Saw cut 4" pipe for better tank access.

1426 Work on clearing area around 1st found tank

1435 Talk with Matt → Keven to sample soil & send out for 3 day TAT

m - 10/1/12 Heather & Janello up results aren't bad we will backfill with it

1440 Tell Plan to Kevin & Will. Matt there too. Matt is thinking about yanking tanks instead of closing in place. Will said he will have a day or so to decide. Will planning on starting around 7/7/15 Tell him to expect John Mayer 1st thing.

1500 Heather & Matt off-site

Heather & Janello

10.2.12 - John Mayer

0700 arrive at site

0730 Optech performs own tailgate safety

0740 Continued saw cutting, jackhammer,

0830 Dig up at area #2 for small tank. No tank found, only 4" CI bell pipe, dug to approx. 22" depth, backfill

1030 Continued excavation at area #1, located tanks #1 - #5 at area #1 various sizes, approx. documented on map copy. Tanks #3, 4, 5 all have liquid present, all sampled for TCLP, dropped at UPS to send to lab. Everyone off site at approx 1615. Optech to hold onto key and lock up.

1615 Leave for day, samples iced, to UPS.

10.3.12 - John Mayer

0700 arrive at site

0730 tailgate safety by Optech, begin further demo to reveal tanks, saw cutting, jackhammer, removal of concrete and fill. Pumping liquid from UST's into 1 yd. liquid totes. Located top of 4200 at location 4, PID reads > 2000 PPM

1600 Depart Site

10.4.12 John Moyer

0700 On site, safety meeting by Optech.
0730 Continued pumping of liquid from tanks. Continued hand digging around top of 4200's, found large flange on top, opened tank = approx: 12'0 x 8'W with 18"? liquid in it. Top of tank is 4' below top of concrete floor. PPB rae = > 2000 inside tank. Matt from DEC said to fill in place the tank at area 4 (4200) and if we find tank at area 3 do the same.
1300 Digging to locate tank at area #3 Vac truck on site to clean tanks.
1500 Backfilling the area 3 tank location, found what may be the fill/vent line at Heather's direction = not to chase it.
1530 Leaving site for day.

10.5.12 John Moyer

0700 Optech on site, safety meeting.
0830 Spoke with Heather + Matt again about looking a little further for tank at area 3, agreed to look more.
Pumping liquid from tank #5 into more 250 gal totes. (arrived today)
Found tank at area #3, approx. 18" below top of concrete, 6'W x 8'6" D?, full of liquid, PID = > 2000 PPM
Tank was approx. 15' from original markings. Tank #5 emptied, cleaning up all debris piles and cleaning down around sides of 1-5 to prep for pull on Monday; loosened 2, 3, 4, from the ground.
1300
1530 leave for the day.

Appendix D

Analytical Data Packages – TCLP

CHEMTECH

DATA FOR

VOLATILE ORGANICS

SEMI-VOLATILE ORGANICS

GC SEMI-VOLATILES

METALS

GENERAL CHEMISTRY

PROJECT NAME : STAUB DISPOSAL

SHAW E & I, INC.

13 British American Blvd

Latham, NY - 12110

Phone No: 5187853262

ORDER ID : **D4418**

ATTENTION : **Heather Fariello**

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Date : 10/08/2012

Dear Heather Fariello,

3 water and **1** soil samples for the **Staub Disposal** project were received on **10/03/2012.** The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

Regards,

Reginald St-Juste

908-728-3147

Reginald@chemtech.net

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. D4418
COC Number 024646

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: SHAW ENVIRONMENTAL, INC.
ADDRESS: 13 BRITISH AMERICAN BLVD
CITY: LATHAM STATE: NY ZIP: 12110
ATTENTION: HEATHER FARIELLO
PHONE: 518-785-2346 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STAUBS TEXTILE
PROJECT NO.: 134685 LOCATION: ROCHESTER, NY
PROJECT MANAGER: HEATHER FARIELLO
e-mail: HEATHER.FARIELLO@SHAWGRP.COM
PHONE: 518-785-2346 FAX:

CLIENT BILLING INFORMATION

BILL TO: SHAW ENVIRONMENTAL PO#:
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION: S. SLATER PHONE: 518-783-1996

DATA TURNAROUND INFORMATION

FAX: 3 DAY TAT DAYS *
HARD COPY: DAYS *
EDD: DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☐ Others
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☐ EDD Format:

ANALYSIS

1 TCLP VOA's
2 TCLP SVOA's
3 & 4 PESTICIDES/PCBS & HERBICIDES
5 TCLP METALS + Hg
6 PCBS
7 IGNITABILITY
8 CORROSIVITY
9 REACTIVITY

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								E									← Specify Preservatives A–HCl B–HNO_3 C–H_2SO_4 D–NaOH E–ICE F–Other
1.	SOIL OVER UST #1	SOIL		X	10/1/12	1510	2	X	X	X	X	X	X	X	X	X	3 DAY TAT
2.	TRIP BLANK																
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	10/1/12 1900	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3. UPS	10/2/12 1010	3. PS

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 6 °C
Ice in Cooler?: Y

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO.
COC Number 026595

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Shaw Environmental
ADDRESS: 13 British American Blvd
CITY: Latham STATE: NY ZIP: 12110
ATTENTION: Heather Faciel
PHONE: 518 785 2346 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Stauber Textile
PROJECT NO.: 134685 LOCATION: 2400
PROJECT MANAGER: Heather Faciel
e-mail:
PHONE: 518 785 2346 FAX:

CLIENT BILLING INFORMATION

BILL TO: Shaw PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: DAYS *
HARD COPY: 2 days DAYS *
EDD: DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☐ Others
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☐ EDD Format:

ANALYSIS

TCLP

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES E 1	2	3	4	5	6	7	8	9	COMMENTS
1.	Tank 3			X	10.2.12	1510	1										
2.	Tank 4			X	10.2.12	1500	1										
3.	Tank 5			X	10.2.12	1530	1										
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. John Mm	10.2.12 1620	
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3. UPS	10/3/12 1010	3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 6°C
Ice in Cooler?: YES

Page ____ of ____

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT.

Shipment Complete: ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Revision 8/2007

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/01/12
Project:	Staub Disposal	Date Received:	10/02/12
Client Sample ID:	SOILOVERUST-1	SDG No.:	D4418
Lab Sample ID:	D4418-01	Matrix:	SOIL
		% Solid:	89.7

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	8.24		1	0	0	0	pH	10/02/12	10/02/12	SW9045C
Ignitability	NO		1	0	0	0	o C	10/03/12	10/03/12	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	10/03/12	10/04/12	9012B
Reactive Sulfide	18		1	10	10	10	mg/Kg	10/03/12	10/03/12	9034

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/01/12
Project:	Staub Disposal	Date Received:	10/02/12
Client Sample ID:	SOILOVERUST-1	SDG No.:	D4418
Lab Sample ID:	D4418-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	10 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume	1
GPC Factor :	1.0 PH : N/A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PB003440.D	1	10/04/12	10/05/12	PB66146

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	9.5	U	3.8	9.5	19	ug/Kg
11104-28-2	Aroclor-1221	9.5	U	3.8	9.5	19	ug/Kg
11141-16-5	Aroclor-1232	9.5	U	8.3	9.5	19	ug/Kg
53469-21-9	Aroclor-1242	9.5	U	3.8	9.5	19	ug/Kg
12672-29-6	Aroclor-1248	9.5	U	7.3	9.5	19	ug/Kg
11097-69-1	Aroclor-1254	9.5	U	1.7	9.5	19	ug/Kg
11096-82-5	Aroclor-1260	9.5	U	4.6	9.5	19	ug/Kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.9		10 - 166		105%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.2		60 - 125		111%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.			Date Collected:	10/01/12
Project:	Staub Disposal			Date Received:	10/02/12
Client Sample ID:	SOILOVERUST-1			SDG No.:	D4418
Lab Sample ID:	D4418-01			Matrix:	TCLP
Analytical Method:	SW8270D			% Moisture:	100
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :	SEPF		Decanted : N	Level :	LOW
Injection Volume :	1		GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG007384.D	1	10/03/12	10/03/12	PB66128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	50	U	20	50	100	ug/L
106-46-7	1,4-Dichlorobenzene	50	U	2	50	100	ug/L
95-48-7	2-Methylphenol	50	U	2.4	50	100	ug/L
65794-96-9	3+4-Methylphenols	50	U	3.8	50	100	ug/L
67-72-1	Hexachloroethane	50	U	2.5	50	100	ug/L
98-95-3	Nitrobenzene	50	U	6.8	50	100	ug/L
87-68-3	Hexachlorobutadiene	50	U	2.5	50	100	ug/L
88-06-2	2,4,6-Trichlorophenol	50	U	5.6	50	100	ug/L
95-95-4	2,4,5-Trichlorophenol	50	U	4	50	100	ug/L
121-14-2	2,4-Dinitrotoluene	50	U	10	50	100	ug/L
118-74-1	Hexachlorobenzene	50	U	1.8	50	100	ug/L
87-86-5	Pentachlorophenol	50	U	17	50	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	110		10 - 130		74%	SPK: 150
13127-88-3	Phenol-d6	93.6		10 - 130		62%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.8		36 - 131		94%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.2		39 - 131		93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		25 - 155		92%	SPK: 150
1718-51-0	Terphenyl-d14	103		23 - 130		103%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	188919	8.47				
1146-65-2	Naphthalene-d8	640123	10.67				
15067-26-2	Acenaphthene-d10	431606	13.66				
1517-22-2	Phenanthrene-d10	758022	16.14				
1719-03-5	Chrysene-d12	782950	20.59				
1520-96-3	Perylene-d12	748312	24.24				

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.			Date Collected:	10/01/12
Project:	Staub Disposal			Date Received:	10/02/12
Client Sample ID:	SOILOVERUST-1			SDG No.:	D4418
Lab Sample ID:	D4418-01			Matrix:	TCLP
Analytical Method:	SW8270D			% Moisture:	100
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :	SEPF		Decanted : N	Level :	LOW
Injection Volume :	1		GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG007384.D	1	10/03/12	10/03/12	PB66128

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/01/12
Project:	Staub Disposal	Date Received:	10/02/12
Client Sample ID:	SOILOVERUST-1	SDG No.:	D4418
Lab Sample ID:	D4418-01	Matrix:	TCLP
Analytical Method:	SW8151A	% Moisture:	100 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume	1
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PE006046.D	1	10/04/12	10/05/12	PB66125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	10	U	3.48	10	20	ug/L
93-72-1	2,4,5-TP (SILVEX)	10	U	1.51	10	20	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	424		43 - 172		85%	SPK: 500

U = Not Detected
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LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/01/12
Project:	Staub Disposal	Date Received:	10/02/12
Client Sample ID:	SOILOVERUST-1	SDG No.:	D4418
Lab Sample ID:	D4418-01	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	50	U	1	42	50	100	ug/L	10/03/12	10/03/12	SW6010B
7440-39-3	Barium	500	J	1	40	250	500	ug/L	10/03/12	10/03/12	SW6010B
7440-43-9	Cadmium	8.7	J	1	5	15	30	ug/L	10/03/12	10/03/12	SW6010B
7440-47-3	Chromium	25	U	1	11	25	50	ug/L	10/03/12	10/03/12	SW6010B
7439-92-1	Lead	53.9	J	1	26	30	60	ug/L	10/03/12	10/03/12	SW6010B
7439-97-6	Mercury	1	U	1	0.915	1	2	ug/L	10/03/12	10/04/12	SW7470A
7782-49-2	Selenium	50	U	1	48	50	100	ug/L	10/03/12	10/03/12	SW6010B
7440-22-4	Silver	25	U	1	15	25	50	ug/L	10/03/12	10/03/12	SW6010B

Color Before:	Colorless	Clarity Before:		Texture:	CLEAR
Color After:	Colorless	Clarity After:		Artifacts:	CLEAR
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/01/12
Project:	Staub Disposal	Date Received:	10/02/12
Client Sample ID:	SOILOVERUST-1	SDG No.:	D4418
Lab Sample ID:	D4418-01	Matrix:	TCLP
Analytical Method:	SW8081B	% Moisture:	100 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume	1
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD013381.D	1	10/03/12	10/05/12	PB66130

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
58-89-9	gamma-BHC	0.25	U	0.055	0.25	0.5	ug/L
76-44-8	Heptachlor	0.25	U	0.069	0.25	0.5	ug/L
1024-57-3	Heptachlor epoxide	0.25	U	0.067	0.25	0.5	ug/L
72-20-8	Endrin	0.25	U	0.058	0.25	0.5	ug/L
72-43-5	Methoxychlor	0.25	U	0.042	0.25	0.5	ug/L
8001-35-2	Toxaphene	2.5	U	1	2.5	5	ug/L
57-74-9	Chlordane	2.5	U	1	2.5	5	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	19.1		10 - 192		95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.8		10 - 172		109%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/01/12
Project:	Staub Disposal	Date Received:	10/02/12
Client Sample ID:	SOILOVERUST-1	SDG No.:	D4418
Lab Sample ID:	D4418-01	Matrix:	TCLP
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VH049480.D	5		10/03/12	VH100312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	12.5	U	1.7	12.5	25	ug/L
75-35-4	1,1-Dichloroethene	12.5	U	2.4	12.5	25	ug/L
78-93-3	2-Butanone	60	U	6.6	60	120	ug/L
56-23-5	Carbon Tetrachloride	12.5	U	3.1	12.5	25	ug/L
67-66-3	Chloroform	12.5	U	1.7	12.5	25	ug/L
71-43-2	Benzene	12.5	U	1.6	12.5	25	ug/L
107-06-2	1,2-Dichloroethane	12.5	U	2.4	12.5	25	ug/L
79-01-6	Trichloroethene	250		1.4	12.5	25	ug/L
127-18-4	Tetrachloroethene	28000	E	1.4	12.5	25	ug/L
108-90-7	Chlorobenzene	12.5	U	2.4	12.5	25	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.7		61 - 141		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		69 - 133		101%	SPK: 50
2037-26-5	Toluene-d8	54.3		65 - 126		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.5		58 - 135		115%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	124268	4.93				
540-36-3	1,4-Difluorobenzene	278080	5.65				
3114-55-4	Chlorobenzene-d5	317141	9.77				
3855-82-1	1,4-Dichlorobenzene-d4	165750	12.52				

U = Not Detected
LOQ = Limit of Quantitation
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N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/01/12
Project:	Staub Disposal	Date Received:	10/02/12
Client Sample ID:	SOILOVERUST-1DL	SDG No.:	D4418
Lab Sample ID:	D4418-01DL	Matrix:	TCLP
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG044404.D	1000		10/04/12	VG100412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	2500	U	340	2500	5000	ug/L
75-35-4	1,1-Dichloroethene	2500	U	470	2500	5000	ug/L
78-93-3	2-Butanone	12500	U	1300	12500	25000	ug/L
56-23-5	Carbon Tetrachloride	2500	U	620	2500	5000	ug/L
67-66-3	Chloroform	2500	U	340	2500	5000	ug/L
71-43-2	Benzene	2500	U	320	2500	5000	ug/L
107-06-2	1,2-Dichloroethane	2500	U	480	2500	5000	ug/L
79-01-6	Trichloroethene	2500	U	280	2500	5000	ug/L
127-18-4	Tetrachloroethene	11000	D	270	2500	5000	ug/L
108-90-7	Chlorobenzene	2500	U	490	2500	5000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.5		61 - 141		93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		69 - 133		98%	SPK: 50
2037-26-5	Toluene-d8	57.9		65 - 126		116%	SPK: 50
460-00-4	4-Bromofluorobenzene	62.2		58 - 135		124%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1648450	3.79				
540-36-3	1,4-Difluorobenzene	2697870	4.57				
3114-55-4	Chlorobenzene-d5	3126360	9.56				
3855-82-1	1,4-Dichlorobenzene-d4	1529630	13.27				

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 3	SDG No.:	D4418
Lab Sample ID:	D4418-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	5.36		1	0	0	0	pH	10/03/12	10/03/12	9040C
Flashpoint	>212.000		1	0	0	0	o F	10/08/12	10/08/12	1010A
Reactive Cyanide	0.005	U	1	0.005	0.005	0.005	mg/L	10/04/12	10/08/12	9012B
Reactive Sulfide	1.44		1	1	1	1	mg/L	10/04/12	10/04/12	9034

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
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B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 3	SDG No.:	D4418
Lab Sample ID:	D4418-02	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	500 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume	1
GPC Factor :	1.0 PH : 5		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PB003441.D	1	10/03/12	10/05/12	PB66138

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.192	0.5	1	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.38	0.5	1	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.3	0.5	1	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.178	0.5	1	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.48	0.5	1	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.088	0.5	1	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.16	0.5	1	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	15		35 - 137		75%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.9		40 - 135		84%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

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* = Values outside of QC limits
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

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Report of Analysis

Client:	Shaw E & I, Inc.			Date Collected:	10/02/12
Project:	Staub Disposal			Date Received:	10/03/12
Client Sample ID:	Tank 3			SDG No.:	D4418
Lab Sample ID:	D4418-02			Matrix:	TCLP
Analytical Method:	SW8270D			% Moisture:	100
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :	SEPF		Decanted : N	Level :	LOW
Injection Volume :	1		GPC Factor : 1.0	GPC Cleanup : N	PH : 5

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058906.D	1	10/04/12	10/04/12	PB66153

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	50	U	20	50	100	ug/L
106-46-7	1,4-Dichlorobenzene	50	U	2	50	100	ug/L
95-48-7	2-Methylphenol	50	U	2.4	50	100	ug/L
65794-96-9	3+4-Methylphenols	580		3.8	50	100	ug/L
67-72-1	Hexachloroethane	50	U	2.5	50	100	ug/L
98-95-3	Nitrobenzene	50	U	6.8	50	100	ug/L
87-68-3	Hexachlorobutadiene	50	U	2.5	50	100	ug/L
88-06-2	2,4,6-Trichlorophenol	50	U	5.6	50	100	ug/L
95-95-4	2,4,5-Trichlorophenol	50	U	4	50	100	ug/L
121-14-2	2,4-Dinitrotoluene	50	U	10	50	100	ug/L
118-74-1	Hexachlorobenzene	50	U	1.8	50	100	ug/L
87-86-5	Pentachlorophenol	60	J	17	50	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	118		10 - 130		79%	SPK: 150
13127-88-3	Phenol-d6	110		10 - 130		73%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.1		36 - 131		90%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.5		39 - 131		92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	161		25 - 155		108%	SPK: 150
1718-51-0	Terphenyl-d14	54.7		23 - 130		55%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	92817	4.66				
1146-65-2	Naphthalene-d8	324633	6.58				
15067-26-2	Acenaphthene-d10	157159	9.49				
1517-22-2	Phenanthrene-d10	272217	11.93				
1719-03-5	Chrysene-d12	216688	16.16				
1520-96-3	Perylene-d12	197762	18.27				

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Report of Analysis

Client:	Shaw E & I, Inc.				Date Collected:	10/02/12	
Project:	Staub Disposal				Date Received:	10/03/12	
Client Sample ID:	Tank 3				SDG No.:	D4418	
Lab Sample ID:	D4418-02				Matrix:	TCLP	
Analytical Method:	SW8270D				% Moisture:	100	
Sample Wt/Vol:	100	Units:	mL		Final Vol:	1000	uL
Soil Aliquot Vol:			uL		Test:	TCLP BNA	
Extraction Type :	SEPF		Decanted :	N	Level :	LOW	
Injection Volume :	1		GPC Factor :	1.0	GPC Cleanup :	N	PH : 5

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058906.D	1	10/04/12	10/04/12	PB66153

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 3	SDG No.:	D4418
Lab Sample ID:	D4418-02	Matrix:	TCLP
Analytical Method:	SW8151A	% Moisture:	100 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume	1
GPC Factor :	1.0 PH : 5		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PE006051.D	1	10/04/12	10/06/12	PB66125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	10	U	3.48	10	20	ug/L
93-72-1	2,4,5-TP (SILVEX)	10	U	1.51	10	20	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	438		43 - 172		88%	SPK: 500

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 3	SDG No.:	D4418
Lab Sample ID:	D4418-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	50	U	1	42	50	100	ug/L	10/04/12	10/04/12	SW6010B
7440-39-3	Barium	294	J	1	40	250	500	ug/L	10/04/12	10/04/12	SW6010B
7440-43-9	Cadmium	14.7	J	1	5	15	30	ug/L	10/04/12	10/04/12	SW6010B
7440-47-3	Chromium	25	U	1	11	25	50	ug/L	10/04/12	10/04/12	SW6010B
7439-92-1	Lead	30	U	1	26	30	60	ug/L	10/04/12	10/04/12	SW6010B
7439-97-6	Mercury	1	U	1	0.915	1	2	ug/L	10/05/12	10/08/12	SW7470A
7782-49-2	Selenium	50	U	1	48	50	100	ug/L	10/04/12	10/04/12	SW6010B
7440-22-4	Silver	25	U	1	15	25	50	ug/L	10/04/12	10/04/12	SW6010B

Color Before:	Colorless	Clarity Before:		Texture:	CLEAR
Color After:	Colorless	Clarity After:		Artifacts:	CLEAR
Comments:	TCLP-FULL				

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 3	SDG No.:	D4418
Lab Sample ID:	D4418-02	Matrix:	TCLP
Analytical Method:	SW8081B	% Moisture:	100 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume	1
GPC Factor :	1.0 PH : 5		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD013446.D	1	10/04/12	10/08/12	PB66154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
58-89-9	gamma-BHC	0.25	U	0.055	0.25	0.5	ug/L
76-44-8	Heptachlor	0.25	U	0.069	0.25	0.5	ug/L
1024-57-3	Heptachlor epoxide	0.25	U	0.067	0.25	0.5	ug/L
72-20-8	Endrin	0.25	U	0.058	0.25	0.5	ug/L
72-43-5	Methoxychlor	0.25	U	0.042	0.25	0.5	ug/L
8001-35-2	Toxaphene	2.5	U	1	2.5	5	ug/L
57-74-9	Chlordane	2.5	U	1	2.5	5	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	9.79		10 - 192		49%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		10 - 172		90%	SPK: 20

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 3	SDG No.:	D4418
Lab Sample ID:	D4418-02	Matrix:	TCLP
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG044420.D	250		10/05/12	VG100512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	600	U	85	600	1200	ug/L
75-35-4	1,1-Dichloroethene	600	U	120	600	1200	ug/L
78-93-3	2-Butanone	3100	U	330	3100	6200	ug/L
56-23-5	Carbon Tetrachloride	600	U	160	600	1200	ug/L
67-66-3	Chloroform	600	U	85	600	1200	ug/L
71-43-2	Benzene	600	U	80	600	1200	ug/L
107-06-2	1,2-Dichloroethane	600	U	120	600	1200	ug/L
79-01-6	Trichloroethene	5800		70	600	1200	ug/L
127-18-4	Tetrachloroethene	2300		68	600	1200	ug/L
108-90-7	Chlorobenzene	600	U	120	600	1200	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.6		61 - 141		97%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	58.1		65 - 126		116%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.3		58 - 135		117%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1700940	3.8				
540-36-3	1,4-Difluorobenzene	2871910	4.58				
3114-55-4	Chlorobenzene-d5	3188080	9.56				
3855-82-1	1,4-Dichlorobenzene-d4	1508820	13.27				

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 4	SDG No.:	D4418
Lab Sample ID:	D4418-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	6.01		1	0	0	0	pH	10/03/12	10/03/12	9040C
Flashpoint	112.9		1	0	0	0	o F	10/08/12	10/08/12	1010A
Reactive Cyanide	0.005	U	1	0.005	0.005	0.005	mg/L	10/04/12	10/08/12	9012B
Reactive Sulfide	1.12		1	1	1	1	mg/L	10/04/12	10/04/12	9034

Comments:

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 4	SDG No.:	D4418
Lab Sample ID:	D4418-03	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	1.02 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume	1
GPC Factor :	1.0 PH : N/A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PB003442.D	1	10/03/12	10/05/12	PB66142

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	245	U	94.1	245	490	ug/L
11104-28-2	Aroclor-1221	245	U	186	245	490	ug/L
11141-16-5	Aroclor-1232	245	U	147	245	490	ug/L
53469-21-9	Aroclor-1242	245	U	87.3	245	490	ug/L
12672-29-6	Aroclor-1248	245	U	235	245	490	ug/L
11097-69-1	Aroclor-1254	245	U	43.1	245	490	ug/L
11096-82-5	Aroclor-1260	245	U	79	245	490	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	16.7		35 - 137		84%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.1		40 - 135		106%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 5	SDG No.:	D4418
Lab Sample ID:	D4418-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	5.71		1	0	0	0	pH	10/03/12	10/03/12	9040C
Flashpoint	>212.000		1	0	0	0	o F	10/08/12	10/08/12	1010A
Reactive Cyanide	0.005	U	1	0.005	0.005	0.005	mg/L	10/04/12	10/08/12	9012B
Reactive Sulfide	1.28		1	1	1	1	mg/L	10/04/12	10/04/12	9034

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 5	SDG No.:	D4418
Lab Sample ID:	D4418-04	Matrix:	WATER
Analytical Method:	SW8082A	% Moisture:	100 Decanted:
Sample Wt/Vol:	500 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume	1
GPC Factor :	1.0 PH : 5		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PB003443.D	1	10/03/12	10/05/12	PB66138

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.5	U	0.192	0.5	1	ug/L
11104-28-2	Aroclor-1221	0.5	U	0.38	0.5	1	ug/L
11141-16-5	Aroclor-1232	0.5	U	0.3	0.5	1	ug/L
53469-21-9	Aroclor-1242	0.5	U	0.178	0.5	1	ug/L
12672-29-6	Aroclor-1248	0.5	U	0.48	0.5	1	ug/L
11097-69-1	Aroclor-1254	0.5	U	0.088	0.5	1	ug/L
11096-82-5	Aroclor-1260	0.5	U	0.16	0.5	1	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.7		35 - 137		103%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.3		40 - 135		67%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

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Report of Analysis

Client:	Shaw E & I, Inc.			Date Collected:	10/02/12
Project:	Staub Disposal			Date Received:	10/03/12
Client Sample ID:	Tank 5			SDG No.:	D4418
Lab Sample ID:	D4418-04			Matrix:	TCLP
Analytical Method:	SW8270D			% Moisture:	100
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :	SEPF		Decanted : N	Level :	LOW
Injection Volume :	1		GPC Factor : 1.0	GPC Cleanup : N	PH : 5

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058908.D	1	10/04/12	10/04/12	PB66153

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	50	U	20	50	100	ug/L
106-46-7	1,4-Dichlorobenzene	50	U	2	50	100	ug/L
95-48-7	2-Methylphenol	50	U	2.4	50	100	ug/L
65794-96-9	3+4-Methylphenols	970	E	3.8	50	100	ug/L
67-72-1	Hexachloroethane	50	U	2.5	50	100	ug/L
98-95-3	Nitrobenzene	50	U	6.8	50	100	ug/L
87-68-3	Hexachlorobutadiene	50	U	2.5	50	100	ug/L
88-06-2	2,4,6-Trichlorophenol	50	U	5.6	50	100	ug/L
95-95-4	2,4,5-Trichlorophenol	50	U	4	50	100	ug/L
121-14-2	2,4-Dinitrotoluene	50	U	10	50	100	ug/L
118-74-1	Hexachlorobenzene	50	U	1.8	50	100	ug/L
87-86-5	Pentachlorophenol	50	U	17	50	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	102		10 - 130		68%	SPK: 150
13127-88-3	Phenol-d6	110		10 - 130		73%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.9		36 - 131		86%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.5		39 - 131		76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	137		25 - 155		92%	SPK: 150
1718-51-0	Terphenyl-d14	56.2		23 - 130		56%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	79600	4.68				
1146-65-2	Naphthalene-d8	318369	6.59				
15067-26-2	Acenaphthene-d10	161281	9.49				
1517-22-2	Phenanthrene-d10	273522	11.93				
1719-03-5	Chrysene-d12	234765	16.17				
1520-96-3	Perylene-d12	226268	18.27				

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Report of Analysis

Client:	Shaw E & I, Inc.				Date Collected:	10/02/12	
Project:	Staub Disposal				Date Received:	10/03/12	
Client Sample ID:	Tank 5				SDG No.:	D4418	
Lab Sample ID:	D4418-04				Matrix:	TCLP	
Analytical Method:	SW8270D				% Moisture:	100	
Sample Wt/Vol:	100	Units:	mL		Final Vol:	1000	uL
Soil Aliquot Vol:			uL		Test:	TCLP BNA	
Extraction Type :	SEPF			Decanted : N	Level :	LOW	
Injection Volume :	1			GPC Factor : 1.0	GPC Cleanup : N	PH :	5

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF058908.D	1	10/04/12	10/04/12	PB66153

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Shaw E & I, Inc.			Date Collected:	10/02/12
Project:	Staub Disposal			Date Received:	10/03/12
Client Sample ID:	Tank 5DL			SDG No.:	D4418
Lab Sample ID:	D4418-04DL			Matrix:	TCLP
Analytical Method:	SW8270D			% Moisture:	100
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :	SEPF	Decanted :	N	Level :	LOW
Injection Volume :	1	GPC Factor :	1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE079408.D	2	10/04/12	10/06/12	PB66153

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	100	UD	40	100	200	ug/L
106-46-7	1,4-Dichlorobenzene	100	UD	4	100	200	ug/L
95-48-7	2-Methylphenol	100	UD	4.8	100	200	ug/L
65794-96-9	3+4-Methylphenols	910	D	7.6	100	200	ug/L
67-72-1	Hexachloroethane	100	UD	5	100	200	ug/L
98-95-3	Nitrobenzene	100	UD	14	100	200	ug/L
87-68-3	Hexachlorobutadiene	100	UD	5	100	200	ug/L
88-06-2	2,4,6-Trichlorophenol	100	UD	11	100	200	ug/L
95-95-4	2,4,5-Trichlorophenol	100	UD	8	100	200	ug/L
121-14-2	2,4-Dinitrotoluene	100	UD	21	100	200	ug/L
118-74-1	Hexachlorobenzene	100	UD	3.6	100	200	ug/L
87-86-5	Pentachlorophenol	100	UD	34	100	200	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	130		10 - 130		87%	SPK: 150
13127-88-3	Phenol-d6	120		10 - 130		80%	SPK: 150
4165-60-0	Nitrobenzene-d5	84.9		36 - 131		85%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.2		39 - 131		76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		25 - 155		91%	SPK: 150
1718-51-0	Terphenyl-d14	56.8		23 - 130		57%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	59429	8.64				
1146-65-2	Naphthalene-d8	242269	10.8				
15067-26-2	Acenaphthene-d10	142876	13.75				
1517-22-2	Phenanthrene-d10	279529	16.21				
1719-03-5	Chrysene-d12	312940	20.62				
1520-96-3	Perylene-d12	280317	24.26				

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Report of Analysis

Client:	Shaw E & I, Inc.			Date Collected:	10/02/12
Project:	Staub Disposal			Date Received:	10/03/12
Client Sample ID:	Tank 5DL			SDG No.:	D4418
Lab Sample ID:	D4418-04DL			Matrix:	TCLP
Analytical Method:	SW8270D			% Moisture:	100
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :	SEPF		Decanted : N	Level :	LOW
Injection Volume :	1		GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE079408.D	2	10/04/12	10/06/12	PB66153

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 5	SDG No.:	D4418
Lab Sample ID:	D4418-04	Matrix:	TCLP
Analytical Method:	SW8151A	% Moisture:	100 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume	1
GPC Factor :	1.0 PH : 5		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PE006052.D	1	10/04/12	10/06/12	PB66125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	10	U	3.48	10	20	ug/L
93-72-1	2,4,5-TP (SILVEX)	10	U	1.51	10	20	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	306		43 - 172		61%	SPK: 500

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 5	SDG No.:	D4418
Lab Sample ID:	D4418-04	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	0.5	U	1	0.42	0.5	1	ug/L	10/04/12	10/04/12	SW6010B
7440-39-3	Barium	8.57		1	0.4	2.5	5	ug/L	10/04/12	10/04/12	SW6010B
7440-43-9	Cadmium	0.11	J	1	0.05	0.15	0.3	ug/L	10/04/12	10/04/12	SW6010B
7440-47-3	Chromium	0.25	U	1	0.11	0.25	0.5	ug/L	10/04/12	10/04/12	SW6010B
7439-92-1	Lead	0.84		1	0.26	0.3	0.6	ug/L	10/04/12	10/04/12	SW6010B
7439-97-6	Mercury	1	U	1	0.915	1	2	ug/L	10/05/12	10/08/12	SW7470A
7782-49-2	Selenium	0.5	U	1	0.48	0.5	1	ug/L	10/04/12	10/04/12	SW6010B
7440-22-4	Silver	0.25	U	1	0.15	0.25	0.5	ug/L	10/04/12	10/04/12	SW6010B

Color Before:	Colorless	Clarity Before:		Texture:	CLEAR
Color After:	Colorless	Clarity After:		Artifacts:	CLEAR
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 5	SDG No.:	D4418
Lab Sample ID:	D4418-04	Matrix:	TCLP
Analytical Method:	SW8081B	% Moisture:	100 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume	1
GPC Factor :	1.0 PH : 5		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD013447.D	1	10/04/12	10/08/12	PB66154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
58-89-9	gamma-BHC	0.25	U	0.055	0.25	0.5	ug/L
76-44-8	Heptachlor	0.25	U	0.069	0.25	0.5	ug/L
1024-57-3	Heptachlor epoxide	0.25	U	0.067	0.25	0.5	ug/L
72-20-8	Endrin	0.25	U	0.058	0.25	0.5	ug/L
72-43-5	Methoxychlor	0.25	U	0.042	0.25	0.5	ug/L
8001-35-2	Toxaphene	2.5	U	1	2.5	5	ug/L
57-74-9	Chlordane	2.5	U	1	2.5	5	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	15.2		10 - 192		76%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.6		10 - 172		83%	SPK: 20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

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Report of Analysis

Client:	Shaw E & I, Inc.	Date Collected:	10/02/12
Project:	Staub Disposal	Date Received:	10/03/12
Client Sample ID:	Tank 5	SDG No.:	D4418
Lab Sample ID:	D4418-04	Matrix:	TCLP
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG044412.D	500		10/04/12	VG100412

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1250	U	170	1250	2500	ug/L
75-35-4	1,1-Dichloroethene	1250	U	240	1250	2500	ug/L
78-93-3	2-Butanone	6000	U	660	6000	12000	ug/L
56-23-5	Carbon Tetrachloride	1250	U	310	1250	2500	ug/L
67-66-3	Chloroform	1250	U	170	1250	2500	ug/L
71-43-2	Benzene	1250	U	160	1250	2500	ug/L
107-06-2	1,2-Dichloroethane	1250	U	240	1250	2500	ug/L
79-01-6	Trichloroethene	900	J	140	1250	2500	ug/L
127-18-4	Tetrachloroethene	42000		140	1250	2500	ug/L
108-90-7	Chlorobenzene	1250	U	240	1250	2500	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.8		61 - 141		98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	57		65 - 126		114%	SPK: 50
460-00-4	4-Bromofluorobenzene	61.5		58 - 135		123%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	1627700	3.79				
540-36-3	1,4-Difluorobenzene	2788330	4.57				
3114-55-4	Chlorobenzene-d5	3219560	9.56				
3855-82-1	1,4-Dichlorobenzene-d4	1552390	13.27				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Appendix E

Waste Manifests and Contaminated Materials Disposal Forms

Material Profile Sheet

Cycle Chem, Inc.
217 South 1st St., Elizabeth, NJ 07206 — Phone: (908) 355-5800 — Fax: (908) 355-0562
550 Industrial Dr., Lewisberry, PA 17339 — Phone: (717) 938-4700 — Fax: (717) 938-3301
www.cyclechem.com

General Chemical Corporation
133-138 Leland St., Framingham, MA 01701
Phone: (508) 872-5000 Fax: (508) 875-5271

Material Profile Sheet
Genecode - Stream: _____ - _____
Process Code: WR3

A. GENERATOR INFORMATION

EPA ID # NYD013140066
GENERATOR NAME: NYSDEC - DER
MAILING ADDRESS: 625 BROADWAY
ALBANY, NY 12233
GENERATOR CONTACT: MATTHEW DUNHAM
GENERATOR PHONE #: 1-888-459-8667
SITE ADDRESS: FORMER STAUBS CLEANERS
935-951 EAST MAIN ST, ROCHESTER,
PICKUP COUNTY: MONROE NY 14605

BILLING COMPANY: CA TECH ENVIRONMENTAL
BILLING ADDRESS: LADER DRIVE
EAST SYRACUSE, NY 13057
BILLING CONTACT: SHARI JACKSON
BILLING PHONE #: 315-437-2065 FAX 585-278-1150

PROCESS GENERATING WASTE: CLEANING OF UNDERGROUND STORAGE TANKS
NAME OF WASTE: FLAMMABLE LIQUID, TOXIC

B. PHYSICAL CHARACTERISTICS OF WASTE (AT 70o F)

Color/Physical Description: CLEAR/BROWN RESIDUAL WASH WATER
Strong Incidental Odor Present? ○ Yes ○ No
Wastewater: ○ Wastewater ☒ Non-wastewater
Specific Gravity: 1 1
Physical State: ☐ Single Phase ☐ Solid ☐ Gas/Aerosol ☒ Bi Layered ☐ Liquid ☐ Lab Pack ☐ Multi-Layered ☐ Semi-Solid ☐ Powder ☐ Sludge

Liquid/Solid/Sludge
% Liquid: 97
% Suspended Solids: 1
% Sludge: 1
% Solid: 1
Dumpable? ☑ Yes ○ No
Pumpable? ☑ Yes ○ No
Pourable? ☑ Yes ○ No

Flash Point: ○ Flash Point <74 F ☒ Flash Point 101-140 F ○ Flash Point >200 F ○ Exact Flash Point: _____ ○ Flash Point 74-100 F ○ Flash Point 141-200 F ○ No Flash Point
○ Open cup ○ Closed cup
Ignitable Solid? ○ Yes ☒ No
pH: ○ <2.0 ○ 2.01-5.0 ☒ 5.01-9.0 ○ 9.01-12.49 ○ >12.5 ○ Exact pH: _____

C. CHEMICAL COMPOSITION

ATTACHMENTS: ☐ MSDS attached ☒ Supplemental Analysis ☐ Additional Information ☐ LDR Attachment

Chemical Composition	Percent	Minimum	Maximum
WATER	GREATER THAN		99%
TETRACHLOROETHYLENE (42ppm)	0	0	0.0042

D. REGULATORY INFORMATION

Is it USEPA haz waste? ☒ Yes ○ No
USEPA Haz Codes: D001, F002
EPA Sub Categories: _____
Is it STATE waste? ○ Yes ○ No
STATE Haz Codes: _____
DOT Hazardous Material? ☒ Yes ○ No
Proper Shipping Name: WASTE FLAMMABLE LIQUID, TOXIC, NOS (Tetrachloroethylene)
Hazard Class: 3 (6.1) UN/NA #: 1992 P.G.: II
RQ: _____ ERG#: 131

E. SHIPPING INFORMATION

VAC TRUCK & 275-6 TOTES

Shipment Method:
☑ Bulk Liquid - Tanker ○ Pallet(s) ○ Drum(Size): _____
○ Bulk Solid - Dump Tkr ☑ Tote(s)
○ Bulk Solid - Roll Off ○ Cubic Yard Box(s) ○ Other(Size): _____
Anticipated Volume: 5,500 Per GAL
Quantity: _____ Price: _____ / Unit: _____

F. SPECIAL HANDLING CONSIDERATIONS

☐ Radioactive ☐ PA RW SOG ☐ No Land Filling
☐ Etiologic/Medical Waste ☐ DRMS/DRMO Waste ☐ Incinerate Only
☐ Fuming ☐ CERCLA Waste ☐ Recycle Only
☐ Phenolics ☐ Asbestos ☐ Other:

I03, N36, T4, TP1

Indicate if waste contains any of the following:

	Non-Reg.	or Less than	or Actual
PCBs	☑	☐ 50 PPM	
Cyanides	☑	☐ 250 PPM	
Phenolics	☑	☐ 50 PPM	
Sulfides	☐	☑ 500 PPM	
VOCs	☐	☑ 500 PPM	
Chlorides	☐	☑ 1000 PPM	

G. TRANSPORTER ARRANGEMENTS

○ CCI/GCC Provides Transportation ○ Other:
☒ Customer Delivers to CCI/GCC
○ Customer Delivers to End Facility via CCI/GCC

H. OTHER HAZARDOUS CHARACTERISTICS

☐ RCRA REACTIVE ☐ ETIOLOGICAL ☐ EXPLOSIVE/SHOCK SENSITIVE
☐ WATER REACTIVE ☑ TSCA REG ☐ NONE OF THE ABOVE
☐ RADIOACTIVE ☐ OXIDIZING MAT'L
☐ SUBJECT TO SUBPART FF BENZENE REG ☐ PYROPHORIC

1. Is this waste characteristically hazardous for metals or organics (EPA Waste Codes D004 through D043)? ○ Yes ☑ No
If YES, please list the constituents and concentrations in section C.

2. Does this waste contain underlying hazardous constituents as defined in 40 CFR 268 Part 2, Section I at concentrations exceeding the UTS treatment standards? ○ Yes ☑ No
If YES, please list the constituents and concentrations in section C.

GENERATOR CERTIFICATION: I hereby certify that all information submitted in this and all other attached documents is complete, contains true and accurate descriptions and is representative of the waste material, and that all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. If CCI/GCC discovers, after having taken the delivery of the waste, that any waste does not conform to the identification or descriptions contained in this MPS then CCI/GCC shall provide notice to Generator and coordinate the return of the non conforming waste to the point of origin as set forth in the manifest or to such other locations designated in writing by the Generator. Generator agrees to reimburse CCI/GCC for all handling, packaging, cleanup and transportation costs or charges, damage to equipment and costs associated with lost time incurred by CCI/GCC during the receipt, handling, temporary storage and return of such non conforming waste to its point of origin or to such other location designated by the Generator. I hereby authorize CCI/GCC to amend and/or correct any information on the MPS with the full understanding that if any amendment or correction is performed, I will be contacted as such to issue any approval.

Authorized Signature: as agent for NYSDEC Heather A Fanelli Title: agent for NYSDEC / PM Date: 10/15/12

CCI/GCC APPROVAL	Sales Code	Tech Initials	Date	Management Initials	Date	Residual Waste / Form Code

Proj. Staubs
Proj # 134685-2405
File Code:

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD013140089
2. Page 1 of: 1
3. Emergency Response Phone: 800-228-8750
4. Manifest Tracking Number: 003041551 FLE

GENERATOR

5. Generator's Name and Mailing Address:
NYSDEC
625 Broadway, 12th Floor
Albany, NY 12233 Attn: Matt Dunham 518-402-8814

Generator's Site Address (if different than mailing address):
935-951 East Main Street
Rochester, NY 14605

Generator's Phone:

6. Transporter 1 Company Name: OP-TECH Environmental Services, Inc.
U.S. EPA ID Number: NYD986980753

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Cycle Chem, Inc.
560 Industrial Drive
Lewisberry, PA 17339
717-938-4700
U.S. EPA ID Number: PAD067098822

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1992, WASTE FLAMMABLE LIQUIDS, TOXIC, N.O.S. (TETRACHLOROETHYLENE), 3 (6.1), PG II (ERG #131)	1	TT	3000	G	D001	F002	B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information:
Cycle Chem Profile # OPT247-B-WR3
CCI: 719246 for Incineration
OP-TECH Job #:RSHG0075
NYSDEC Site Name: Staubs Textile Service, Inc.
NYSDEC Site Code: 828160

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: As Agent of NYSDEC Nicholas Nicholas
Signature: As Agent of NYSDEC
Month: 10 Day: 16 Year: 2012

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: James L Washburn
Signature: James L Washburn
Month: 10 Day: 16 Year: 2012

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYD013140066	2. Page 1 of 1	3. Emergency Response Phone 800-225-6750	4. Manifest Tracking Number 003041552 FLE

5. Generator's Name and Mailing Address
NYSDEC
625 Broadway, 12th Floor
Albany, NY 12233 Attn: Matt Dunham 518-402-9814
Generator's Phone:

Generator's Site Address (if different than mailing address)
935-951 East Main Street
Rochester, NY 14605

6. Transporter 1 Company Name: OP-TECH Environmental Services, Inc. — U.S. EPA ID Number: NYD986980753

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Cycle Chem, Inc.
550 Industrial Drive
Lewisberry, PA 17339
Facility's Phone: 717-938-4700
U.S. EPA ID Number: PAD067098822

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1992, WASTE FLAMMABLE LIQUIDS, TOXIC, N.O.S. (TETRACHLOROETHYLENE), 3 (6.1), PG II (ERG #131)	7	CF	1890	G	D001	F002	B
X	2. UN1992 Waste Flammable Liquids, TOXIC, N.O.S. (tetrachloroethylene), 3 (6.1) PG II (ERG #131)	8	DM	400	G	D001	F002	B
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Cycle Chem Profile # OPT247-B-WR3
CCI: 718246 for Incineration
OP-TECH Job #:RSHG0075
NYSDEC Site Name: Staubs Textile Service, Inc.
NYSDEC Site Code: 828160

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: John Moyer (on behalf of NYSDEC) — Signature: John Moyer — Month 10 Day 19 Year 12

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tim Benjamin — Signature — Month 10 Day 19 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Adele Stehley — Signature: Adele Stehley — Month 10 Day 22 Year 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Cycle Chem

The Environmental Services Source

Date 10/31/12

DISCREPANCY NOTICE

Customer:	OP-TECH ENVIRONMENTAL SERVICES 1 Adler Drive East Syracuse NY (MEY)	**Work Order:**	548358
Generator:	NYSDEC 935-951 E. Main St. Rochester NY (719246)	**Date Received:**	10/22/12

Quality Control procedures performed on the above referenced waste shipment have revealed the following discrepancies with either the acceptance criteria or the Material Profile Sheet that require changing the disposal treatment or the cost.

Waste Name:	Flammable Liquid, Toxic			**Manifest:**	003041552FLE Page 1 Line 2		
Product Code	**Price**	**New Product Code**	**New Price**	**Drum Size**	**Cost Increase**	**Quantity**	**Total**
WR3-B	*	RO1	*	55 G DM	*	8	*

Discrepancy: Waste in drums drums exceeds 2" of solids and sludge, cannot be consolidated for disposal. Bill and process as RO1.

Total Cost Increase:

Cycle Chem will process all referenced waste streams and invoice for the listed charges if no response is received in twenty-four hours. Please authorize the above changes by signing below and faxing back to (717) 938 3301

OP-TECH 10/31/12

Name
Company **Date**