



DEPARTMENT OF FLEET AND FACILITY MANAGEMENT
CITY OF CHICAGO

January 17, 2014

Mr. Steve Faryan
On-Scene Coordinator
U.S. Environmental Protection Agency Region 5 (SC-5J)
77 W. Jackson Blvd.
Chicago, IL 60604

Re: Remediation Activities
City Right of Way
947 W. Cullerton Street
Chicago IL 60604

Dear Mr. Faryan

The City of Chicago (the City) is submitting a combined work plan and summary report for the above referenced parcel located adjacent to the former Loewenthal Metals site. The document provides detail of a limited removal activity in the City's right of way to address elevated lead levels identified by the U.S Environmental Protection Agency (USEPA) during its activities on the Loewenthal Metals Site. At the USEPA's request and with its technical assistance, the City performed a limited soil removal beginning on September 30, 2013 and completed onsite work October 11, 2013.

The City of Chicago's Department of Fleet and Facility Management provided technical assistance to the Chicago Department of Transportation and secured an emergency contractor to conduct sampling and soil disposal activities.

The attached summary provides details of the sampling and remediation work completed. If you have any questions, please feel free to call me 312-745-4034.

Sincerely,

Dave Graham

City Right of Way Work Adjacent to Former Lowenthal Metals Site

The following is a summary of the work performed by the City's Department of Fleet and Facility Management (2FM) on behalf of the Chicago Department of Transportation (CDOT) to address elevated levels of lead in City right of way. CDOT is responsible for the maintenance and use of the City's rights of way and requested 2FM's expertise in evaluation and remediation required to mitigate hazardous waste lead in soil identified by USEPA during its work on the former Lowenthal Metal Site (LMS).

Background

Based on USEPA documents, the Loewenthal Metals property historically operated as a lead smelting facility during the 1940's. The company is also listed in the 1948-49 Standard Metal Directory under aluminum and lead smelter, scrap iron, and metal importers, and exporters of scrap metal. The lead smelter ceased operations in the early 1950's.

Based on USEPA sampling originating on the LMS, it collected additional soil samples east of LMS and west of City of Chicago pedestrian path. The analytical results (see Attachment 1) were reviewed and indicated the potential for characteristically hazardous lead in the soil. USEPA provided its available data, survey and ownership information, via email on August 27, 2013. Based on property ownership records and survey information, the City confirmed the following soil samples collected by USEPA are on City right of way: LM-SB24, LM-SB26, LM-SB28 and LM-SB28. Presumably, lead contamination on the City right of way is due to historical operations on the Loewenthal Metals site.

The City (2FM and its Department of Law) participated in numerous discussions with the USEPA and evaluated the existing site conditions, activity by USEPA contractors and its schedule for mobilization and demobilization from the Lowenthal Metals site. Based on levels of lead contamination observed in soil samples collected in the City's right of way, the City determined it would initiate a limited removal activity on September 23, 2013. SET Environmental Inc (SET), an emergency contractor for the City of Chicago, was procured to complete all sampling, monitoring and soil removal activities. At USEPA's request, based on discussions with Steve Faryan (On Scene Coordinator for the LMS) and Thomas Williams (attorney for USEPA), the City agreed to delay its removal activities until September 30th, 2013 to accommodate USEPA concerns with respect to having multiple active contractors working on or near LMS.

Scope of Work

Task 1 – Pre-excavation and Mobilization Activities

Subcontractor Procurement and Health and Safety Plan

2FM emergency contractor (SET) provided a quote for sampling, construction activities related to remediation activities, oversight, ambient air monitoring and landfill disposal coordination. As part of its normal site mobilization, a standard health and safety was used and a pre-safety meeting was performed prior to starting onsite activities.

Define Extent of Excavation – 2FM met onsite with USEPA (Steve Faryan) to define the proposed extent of excavation based on existing information (see Attachment 2). Excavation activities were planned to remove soil to an approximate depth of two or three feet, dependent on the field screening and laboratory analysis of soil conditions. Field screening with an X-Ray fluorescence (XRF) analyzer was completed to measure the total lead concentrations in soil and evaluate the presence of characteristically hazardous waste levels for lead (5 mg/l) based on observations from soil removal activities by USEPA on the LMS. The final depth of excavation was determined based on soil sample collection and analysis by an approved and accredited laboratory. Soil analysis included total lead, toxicity characteristic leaching procedure (TCLP) and analysis for lead in resultant TCLP extraction. STAT Analysis Corporation (the same laboratory used by USEPA in its evaluation of LMS) conducted laboratory analysis of soil samples.

Onsite Meeting with Contractor – On September 17th, 2013, the City met with its removal contractor SET Environmental Inc. to perform a site walk and confirm extent of the proposed excavation. During the site walk, it was determined overhead electrical lines and an apparent subsurface utility cable would necessitate smaller sized excavation equipment and additional safety precautions to avoid overhead and buried utilities. It was assumed a limited amount of hand digging would be necessary to locate potential utility vaults.

Landfill Disposal Authorizations – SET Environmental Inc. used existing data collected by USEPA to complete landfill acceptance authorization documentation and arranged for disposal of excavated soil, prior to beginning excavation activities:

Characteristically Hazardous Waste Lead Impacted soil was approved for treatment by:

Envirite of Illinois
16435 Center Avenue
Harvey Illinois 60426
USEPA ID Number: ILD 000666206

Non-Hazardous Lead Impacted Soil (non-special waste classification) was approved for landfill disposal by:

Republic Services
EnvironTech Landfill
1800 Ashley Rd
Morris Illinois 60450

Utility Survey – Public utilities were notified using the Illinois Joint Utility Locating Information for Excavators (Julie) locating services and a confirmation number was assigned (376140578) on September 18th, 2013. Based on discussions with an ATT representative, a utility vault was present within the right of way and directly below areas of anticipated excavation. The ultimate depth of excavation was anticipated to be limited by the actual depth of the utility vault. Handing digging and other safety measures were planned to limit any potential of damaging utilities.

Temporary Construction Fence Construction – Based on discussions with USEPA on September 16th and 17th, 2013, a portion of the temporary construction fencing used by its contractors to secure the site was under lease by the City. As part of the USEPA's contractor's demobilization, the fencing was relocated from the public way and stored onsite during the week of September 30th, 2013. Before starting work, SET planned to install the fence on the perimeter of the excavation area in the City's right of way. The public pedestrian/bike path were planned to be enclosed, as required to ensure public safety.

Task 2 – Screening and Removal of Lead Impacted Soil

Soils in the area of sample LM-SB24 were field screened with an X-Ray Fluorescence (XRF) in 1-foot depth intervals and initially in an area of 3-feet by 3-feet. XRF and laboratory sample results for lead were compared to USEPA Removal Management Levels (RML) for industrial soil of 800 mg/kg and to the 40 Code of Federal Regulations (CFR) Part 745 Unoccupied Residential Soil Level (URSL) of 1,200 mg/kg.

Based on the results, soil was evaluated for removal and offsite disposal. Additional screening was completed as material was removed and loaded into trucks for landfill disposal or placed in roll-off boxes for offsite treatment.

Task 3 – Ambient Air Monitoring

During active site operations, SET operated a DataRam air unit to monitor all dust/particulates on Site. The unit was placed near the open excavation and mounted on the fence interior. The action level for nuisance dust was 500 ug/m³. If exceeded, all excavation activities were to stop and amendment of dust control activities were made before continuation of work.

Task 4 – Dust Control

Temporary fencing consisting of six foot high chain-link fabric with wind screen was placed around the perimeter of the site. A plastic carboy was kept on site to store water from a local fire hydrant for wetting of the excavation. Water was applied to open the

excavation and stockpiled material via a pressure washer during excavation activities to minimize the creation of wind borne soil.

Task 5 - Confirmation Sampling

XRF screening was used to determine excavation depths, define aerial extent and determine locations for soil collection and laboratory analysis. In order to confirm remediation was completed, soil samples were collected (based on XRF measurements) and submitted to STAT to evaluate total lead and TCLP lead remaining in soil. A total of five soil sample locations were planned to a depth of 3-foot based on USEPA’s previous soil sample locations (LM-SB-24, LM-SB-26, LM-SB-28, LM-SB-30 and west of LM-SB-32). Field decisions were made based on XRF screening results to determine locations of soil sample collection for laboratory analysis.

Task 6 – Geotextile Installation/Backfill

Excavation backfilling occurred after review of XRF field screening and soil analytical data. Prior to backfilling, a bright orange geotextile was placed at the base of the excavation. Daylight® Orange nonwoven geotextile was used as a visual and physical barrier to remaining soils. Technical specifications are included in Attachment 3.

Depth of backfill ranged from 3-foot on the north end of the excavation (near soil samples exceeding characteristically hazardous waste criteria for lead) to 2-foot on the south end of the excavation.

Summary of Field Activities and Observations

The following is a summary of field activities completed between September 30th and October 11th 2013. All work was performed under contract with SET Environmental Inc., under the direction of 2FM. SET completed all required activities for sampling, monitoring, excavation, backfilling and waste disposal in the City right of way for a total of seven working days. A photolog of field activities is included in Attachment 4. SET’s daily field logs are included in Attachment 5

Field Screening and Confirmation Sample Results

Attachment 6 includes final XRF field screening readings and confirmation sample results. Based on USEPA field screening activities and soil sample data, the XRF was used to evaluate lead in the soil, determine extent of require excavation and define confirmation sample locations. A total of seven soil samples were collected (see Attachment 7) and submitted for laboratory analysis; STAT Analysis completed the soil analysis and the laboratory results are provided in Attachment 8.

Based on USEPA sampling data (SB24), it was anticipated soil meeting characteristically hazardous waste criteria could be encountered on the northern portion of excavation.

SET initially collected the following samples and were analyzed for lead:

SB24ROW	Depth - 2 feet	Soil Sample Results: 2,800 mg/kg; 8.5 mg/l TCLP
SB26ROW	Depth – 2 feet	Soil Sample Results: 25,000 mg/kg

Sample SB24ROW results indicated at a depth of 2-feet, lead was identified above the 5 mg/l criteria of characteristically hazardous waste. Sample SB26ROW was analyzed only for the total lead. However, it was assumed the high concentration would be hazardous.

Prior to excavating additional depth at the locations of samples SB24ROW and SB26ROW, hand digging was conducted to ensure heavy excavation equipment would not contact and potentially damage underground utilities. A light-brown, native clay was encountered several inches below the active excavation (approximately 24 to 30-inches below the original grade) and the final excavation was completed to approximately 3-feet. Soil samples were collected at the bottom of the final excavation (SB24(2)ROW and SB26(2)ROW) based on XRF screening measurements. The results of the soil samples are as follows:

SB24(2)ROW Depth - 3 feet,	Soil Sample Results: 100 mg/kg; 0.47 mg/l
SB26(2)ROW Depth – 3 feet	Soil Sample Results: 36 mg/kg; 0.053 mg/l

Based on these results, lead in soil meeting characteristically hazardous waste criteria was removed from the City right of way.

Additional confirmation sampling was completed in the City right of way, south of the final hazardous waste removal. Based on the results, no soil remains in the City right of way meeting the criteria for characteristically hazardous waste

Soil Excavation

Location of Soil Excavation – Attachment (2) provides the extent and depth of excavated soil. The final depth of excavation was determined based on XRF field screening and results of confirmation soil samples.

Due to several conditions identified in the field, the excavation was limited to a depth of 2-foot on the portion of the right of way extending beyond the southernmost boundary LMS. First, excavation around an existing utility pole was limited as a protective precaution. Second, an AT&T utility vault and shallow manhole was identified in the area of excavation and visually confirmed at a depth between 3 and 4-foot below grade. Since the XRF readings taken from areas south of the SB24(2)ROW and SB26(2)ROW did not indicate the potential for characteristically hazardous waste lead, limiting the soil excavation to a 2-foot depth was considered appropriate.

Soil tested and confirmed to be hazardous were stored in roll-off boxes, pending final acceptance for treatment and disposal; the remaining non-hazardous soil was loaded directly into trucks for immediate landfilling. The roll-off boxes were removed during completion of excavation backfilling activities. Attachment 9 includes the waste manifests for the soil meeting characteristically hazardous waste for lead.

The total tonnage of material includes:
Special waste – 210 tons
Hazardous waste – 63 tons

Geotextile Installation and Backfilling operations

Excavation backfilling was completed in several stages during active excavation activities to minimize any tracking of soil by trucks on to the public streets. Crushed limestone was placed at the bottom of the 3-foot excavation as a haul road for truck traffic. The depth of stone varied from approximately 6 to 12-inches

Prior to final backfilling, an orange geotextile was rolled out on to the base of the excavation and overlapped in a manner to cover the entire excavation. The geotextile in combination with 2-feet of soil is acceptable engineered barrier for soil ingestion exposure. The Illinois Environmental Protection voluntary cleanup program (the Site Remediation Program) has previously approved this combination of soil and geotextile for other sites within the City.

Clean clay was placed above the limestone to a depth of 1-foot below final existing grade and compacted by an excavator. The top 1-foot of the excavation was backfilled with topsoil.

Ambient Air Monitoring and Dust Control Activities

Monitoring during excavation activities did not observe measurements exceeding the level for nuisance dust of 500 ug/m³. Monitoring levels were between 1.7 ug/m³ and 59.6 ug/m³ for the duration of the work, well below the action level.

List of Attachments

- Attachment 1 – USEPA Soil Sample Results
- Attachment 2 – Extent and Depth of Excavation in Right of Way
- Attachment 3 - Geotextile Technical Specifications
- Attachment 4 – Photographic Log of Field Activities
- Attachment 5 – SET Daily Field Logs
- Attachment 6 – XRF Field Screening Measurements and Soil Sampling Results
- Attachment 7 – Confirmation Soil Sample Locations
- Attachment 8 – Soil Sample Analytical Results
- Attachment 9 – Hazardous Waste Manifests

Attachment 1
USEPA Sample Analytical Results

LM-SB24 06/21/13

Depth	Parameter	Result	[Criteria]
1-2	LEAD	6300	[800]
1-2	Lead, TCLP	56	[5]

LM-SB26 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	2100	[800]

LM-SB28 06/21/13

Depth	Parameter	Result	[Criteria]
1-2	LEAD	3100	[800]

LM-SB30 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	840	[800]

LM-SB25 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1500	[800]

LM-SB29 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1600	[800]

LM-SB32 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1700	[800]

LM-SB34 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1000	[800]

Legend

- Sampling Locations - At Least One Exceedance
- Sampling Locations - No Exceedances
- Former Railroad
- Expanded Site Boundary
- Initial Site Boundary

Units:
Total Metals = mg/kg
TCLP Metals = mg/l

Prepared For:
US EPA Region V
Contract No.: EP-S5-06-04
TDD: S05-0001-1201-003
DCN: 1714-

Prepared By:
WESTON SOLUTIONS, INC.
750 E. Bunker Ct, Suite 500
Vernon Hills, Illinois 60061

Figure 1
Sampling Location and Results Map
Railway Area
Loewenthal Metals
Chicago, Cook County, Illinois

Attachment 2
Soil Excavation Area and Depths

LM-SB24 06/21/13

Depth	Parameter	Result	[Criteria]
1-2	LEAD	6300	[800]
1-2	Lead, TCLP	56	[5]

Excavation Depth 3-foot

LM-SB28 06/21/13

Depth	Parameter	Result	[Criteria]
1-2	LEAD	3100	[800]

Excavation Depth 2-foot

LM-SB30

Depth	Parameter	Result	[Criteria]
0-1	LEAD	840	[800]

LM-SB25 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1500	[800]

LM-SB29 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1600	[800]

LM-SB32 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1700	[800]

LM-SB34 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1000	[800]

Legend

- Sampling Locations - At Least One Exceedance
- Sampling Locations - No Exceedances
- Former Railroad
- Expanded Site Boundary
- Initial Site Boundary

0 50

Feet

N

Units:
Total Metals = mg/kg
TCLP Metals = mg/l

<p>Prepared For: US EPA Region V Contract No.: EP-S5-06-04 TDD: S05-0001-1201-003 DCN: 1714-</p>	<p>Prepared By: WESTON SOLUTIONS, INC. 750 E. Bunker Ct, Suite 500 Vernon Hills, Illinois 60061</p>
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Figure 1
Sampling Location and Results Map
Railway Area
Loewenthal Metals
Chicago, Cook County, Illinois

Daylight® Orange Nonwoven Geotextile

Used for soil separation and drainage. Combines high durability with peak physical and hydraulic properties. Manufactured from polypropylene staple fibers, which allows high water flow rates plus durability while still providing excellent soil separation and retention.

- Performs as highly visible nonwoven geotextile
- Resists biological degradation
- Resists naturally encountered chemicals, alkalis, and acids
- Creates separation, filtration and protection
- Useful for "brownfields" and urban gardens
- Meets EPA requirements



KEY INFORMATION:

Daylight Orange® is chemically stable in a wide range of aggressive environments and provides cost effective solutions where soil separation and high permittivity are required. The properties of this geosynthetic allows fluids to pass through while preventing the migration of soil particles. This allows for water to flow freely downward while discouraging water absorption upward.

BENEFITS:

- Transforms unusable areas
- Sold in 15' widths
- Allows for faster installation than other like products
- Has excellent physical and hydraulic properties
- Promotes superb soil retention and subsurface drainage
- Acts as visual barrier

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D 4632	N (lbs)	401 (90)	401(90)
Grab Tensile Elongation	ASTM D 4632	%	50	50
Trapezoid Tear Strength	ASTM D 4533	N (lbs)	178 (40)	178 (40)
CBR Puncture Strength	ASTM D 6241	N (lbs)	1113 (250)	
Apparent Opening Size (AOS) ¹	ASTM D 4751	mm (U.S. Sieve)	0.25 (60)	
Permittivity	ASTM D 4491	sec ⁻¹	2.0	
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	5907 (145)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

¹ ASTM D 4751: AOS is a Maximum Opening Diameter Value

Physical Properties	Test Method	Unit	Typical Value	
Weight	ASTM D 5261	g/m ² (oz/yd ²)	136 (4.0)	
Thickness	ASTM D 5199	mm (mils)	0.9 (35)	
Roll Dimensions (width x length)	--	m (ft)	3.8 x 110 (12.5 x 360)	4.5 x 110 (15 x 360)
Roll Area	--	m ² (yd ²)	418 (500)	502 (600)
Estimated Roll Weight	--	kg (lb)	60 (133)	70 (160)

Available at



Attachment 4

Geotextile Technical Specifications



Truck loading activities

(facing south west)

Picture 1



Truck loading activities behind
perimeter fencing

(facing south east, viewed from the
street)

Picture 2



Truck loading activities

(facing north west)

Picture 3



Dataram air monitor within perimeter
fencing during excavation activities

(east perimeter of excavation)

Picture 4



Trucking activities

(southern portion of excavation facing
north towards Cullerton Ave)

Picture 5



Excavation activities on northend of
right-of-way

(facing northwest towards Cullerton
Ave)

Picture 6



Excavation Activities on northend of right-of-way, initial removal of abandoned rail spur. Note orange markings for utility locations

(facing north towards Cullerton Ave)

Picture 7



Excavation activities along asphalt path; hand digging in preparation for sawcutting of abandoned rail spur.

(facing northwest)

Picture 8



Initial excavation activities along asphalt path. Note proximity to utility manhole (AT&T vault) and electrical pole.

(facing north towards Cullerton Avenue)

Picture 9



Initial excavation activities along asphalt path.

(facing west)

Picture 10



Initial excavation activities along asphalt path, south of former Lowenthal Metals Site.

(facing west)

Picture 11



Excavation activities along asphalt path, south of former Lowenthal Metals Site. Note gravel placed for trucks hauling soil.

(facing northwest)

Picture 12



Excavation facing south, XRF measuring activities.

(facing south)

Picture 13



Hand digging on north end of site to evaluate potential depth of utility vault. Note presence of native clay in shallow hole.

Picture 14



Continued excavation along asphalt path and directly above utility vault.

(facing south)

Picture 15



Excavated area of hazardous material
on north end, along Cullerton Ave.

(facing west)

Picture 16



Bottom of final excavation prior to
installation of geotextile.

(facing north)

Picture 17



Beginning installation of geotextile.

(facing south)

Picture 18



Continued installation of geotextile.

(facing north)

Picture 19



Placement of clean soil above geotextile.

(facing north)

Picture 20



Grading of clean soil to final grade.

(facing northwest)

Picture 21



Final site grade.

(facing south)

Picture 22



FIELD ACTIVITY LOG

Project Name: <u>CITY of CHICAGO Pb SOILS</u>	Project #: <u>1309-0180</u>	Date: <u>10/2/13</u>
Address: <u>947 W. COLLERTON</u>	City: <u>CHICAGO</u>	State: <u>IL</u>

Weather Conditions

Temperature: <u>60-70s</u>	Wind Direction/Speed: <u>5-10</u>	Precipitation: <u>None</u>	Cloudy or Foggy: <u>PC</u>
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Check	Specific Tasks to Complete by End of Shift
<input type="checkbox"/>	EXCAVATE BOTH HAZ & NONHAZ Pb SOILS FOR DISPOSAL
<input type="checkbox"/>	MONITOR AIR QUALITY & WET SOILS FOR DUST CONTROL
<input type="checkbox"/>	SPOT CHECK SOILS FOR TOTAL METALS
<input type="checkbox"/>	ASSIST C of C DETERMINE POSS. 2ND PHASE of DIG AREA.
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	

Time	Project Notes	AIR QUALITY
0530	Q SHOP AND LOAD UP MISC. EQUIPMENT	
0630	Q SITE PREP WORK AREA	<u>Ug/m³</u>
0645	START AIR PUMP FOR DUST MONITORING	<u>20.1</u>
0725	FIRST TRUCK ARRIVES TO LOAD UP SOILS BANK WRITTEN FOR DUST CONTROL	<u>19.6</u>
0800	FIRST TRUCK LEAVES	<u>8.1</u>
0830	AIR MONITOR CK	<u>9.6</u>
	DATE FROM C of C & Q'S MEASURED POSSIBLE NEXT DIG AREA TO THE SOUTH of AREA BEING WORKED ON NOW ALL THE WAY DOWN TO THE NEXT R.O.W. 12' WEST of RAIL ROW TO PATHWAY AVERAGE WIDTH of 11' SPOT LOCATIONS PICKED FOR XRF SPOT SAMPLES TO BE CHECKED	
1000	REDIGGING HIGHER CONCENTRATION AREA PRIOR TO ROLL OFF BOX ARRIVAL TO REMOVE RAIL ROAD SPUR GROUND THROUGH AREA.	
1010	METER READING	<u>59.6</u>
1030	ROLL-OFF ARRIVES	
1040	LOADING BEGINS	<u>35.8</u>
1120	LOAD LEAVES	<u>21.3</u>
1221	METER READING	<u>17.1</u>
1400	2ND ROLL OFF ARRIVES	<u>1.7</u>
1410	METER READING	<u>2.9</u>
1430	2ND ROLL OFF LEAVES	
1500	3RD ROLL OFF ARRIVES	<u>61.2</u>

PRINT NAME AND SIGN



FIELD ACTIVITY LOG CONTINUATION SHEET

Project Name: *Mt Wauson*

Project #: *P09-D180*

Date: *10/2/13*

Address:

City:

State:

Time

Project Notes

1530 END METAL ROAD, also

16.1

10/15/45 OFF SITE

12.2

11:40 OFF CLOCK

PRINT NAME AND SIGN _____

PAGE _____ OF _____



FIELD ACTIVITY LOG

Project Name: City of Chicago Pb Soils Dig Project #: 1309-0180 Date: 10/7/13
 Address: 749 W. COLLETON City: Chicago State: IL

Weather Conditions
 Temperature: 50-60. Wind Direction/Speed: S-15 Precipitation: None Cloudy or Foggy:

Check	Specific Tasks to Complete by End of Shift
<input type="checkbox"/>	<u>FOCUS MAKE EQUIPMENT</u>
<input type="checkbox"/>	<u>EXCAVATE AND LOAD ROLL OFFERS w/ Pb SOILS</u>
<input type="checkbox"/>	<u>MONITOR AIR QUALITY FOR DUST</u>
<input type="checkbox"/>	<u>SPOT CHECK SOILS w/ XRF METAL</u>
<input type="checkbox"/>	<u>SAMPLE SOILS FOR CLOUST</u>
<input type="checkbox"/>	

Time	Project Notes
<u>0530</u>	<u>@ Sharp LOAD UP HARD TOOLS, P WARE ETC</u>
<u>0600</u>	<u>LEAVES Sharp</u>
<u>0700</u>	<u>ARRIVE ON SITE OPEN SITE FOR WORK SET UP AIR MESH</u>
<u>0730</u>	<u>ILLOT RITE ARRIVES w/ MINI SMARTN BUCKET EXCAVATOR</u>
	<u>SPOT CHECK THE HOT SPOTS FROM THURS. 10/3/13 AND</u>
	<u>AROUND SS#14 STILL READING 6500 PPM FOR Pb</u>
<u>0830</u>	<u>FIRST ROLL OFF STARTS BEING LOADED</u>
<u>1000</u>	<u>FIRST ROLL OFF FULL DURNS EXCAVATION CLAY SEAM FOUND</u>
	<u>ABOUT 1' LOWER THAN PREVIOUSLY DUG OUT WILL CONTINUE TO</u>
	<u>DIG DOWN TO CLAY ~ READINGS FROM XRF ARE IN THE</u>
	<u>20-100 PPM RANGE.</u>
<u>1030</u>	<u>RE-DIGGING DOWN TO CLAY SEAM</u>
<u>1045</u>	<u>Pb SPOT CHECKS w/ XRF</u>
<u>1210</u>	<u>2ND ROLL OFF ARRIVES</u>
<u>1340</u>	<u>ROLL OFF FULL AND GONE</u>
<u>1345</u>	<u>SAMPLES of AREA</u>
<u>1430</u>	<u>SAMPLES COMPLETE ALONG w/ DECON of EQUIPMENT</u>
<u>1445</u>	<u>OFF SITE TO STOP @ LAB TO DROP SAMPLES</u>
<u>1545</u>	<u>BACK @ Sharp CLEAN OUT & RE STOCK</u>
<u>1600</u>	<u>OFF CLOCK</u>

Michael Williams
 PRINT NAME AND SIGN



FIELD ACTIVITY LOG

Project Name: *COC*

Project #: *1309-1180*

Date: *10/10/13*

Address: *497 W. Callerton*

City: *Chicago*

State: *IL*

Weather Conditions

Temperature:

Wind Direction/Speed:

Precipitation:

Cloudy or Foggy:

Check Specific Tasks to Complete by End of Shift

Place & compact clay backfill

Time Project Notes

0725 1st Truck arrives

0730 2nd

0745 3rd

0750 4th

0800 Kent Rite arrives with tracked skid loader

1035 5th

1100 6th

1105 7th

1145 8th

1400 Leaving site

1500 Crew off clock

Kyle Carter
PRINT NAME AND SIGN

9/30/13 - 10/2/13

FIELD CALIBRATION

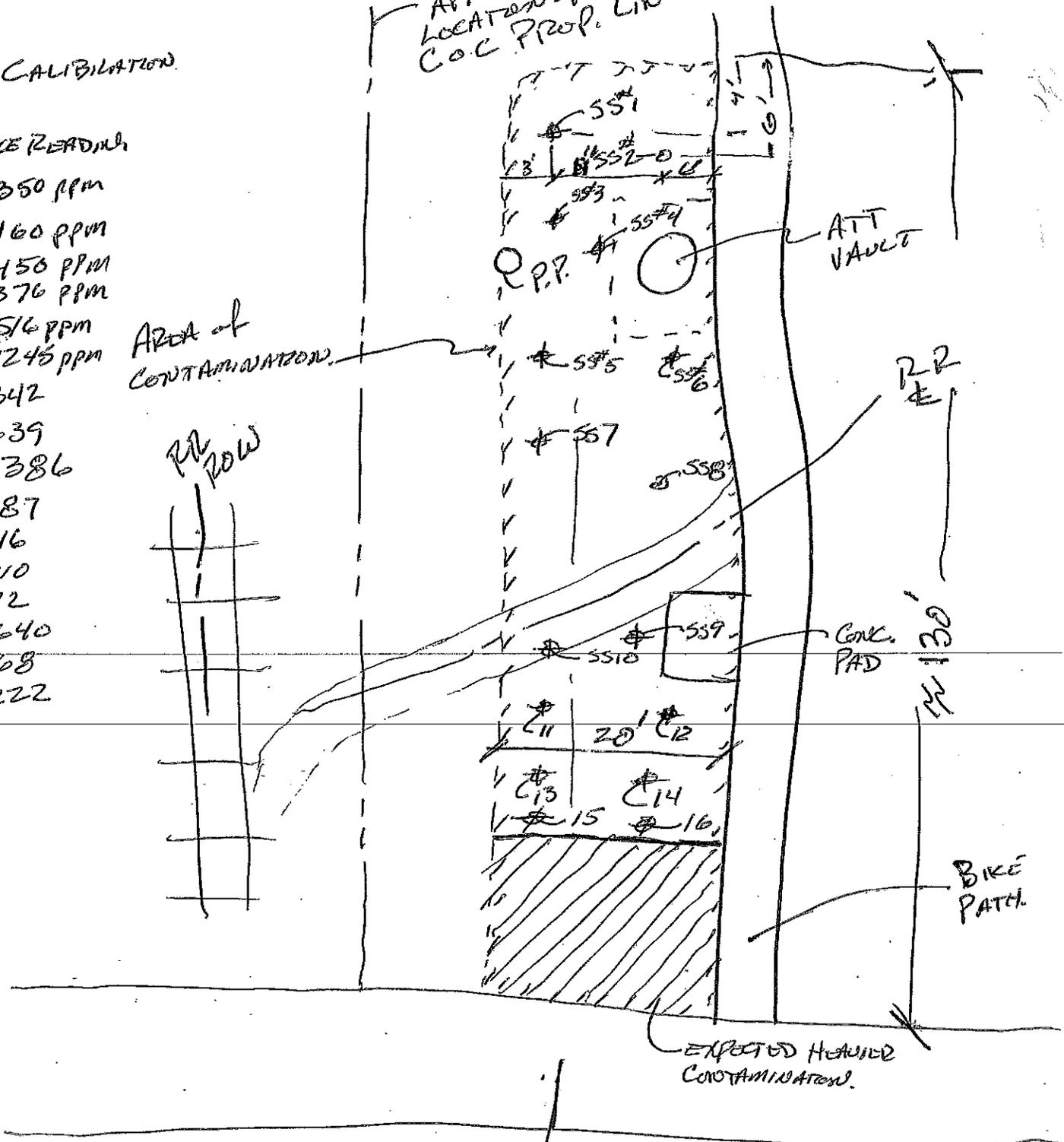
SPIT SAMPLE READINGS

- SS#1 350 ppm
- SS#2 160 ppm
- SS#3 450 ppm
- SS#4 376 ppm
- SS#5 516 ppm
- SS#6 1245 ppm
- SS#7 342
- SS#8 639
- SS#9 1386
- SS#10 687
- SS#11 1716
- SS#12 1910
- SS#13 672
- SS#14 6640
- SS#15 268
- SS#16 2222

AREA of CONTAMINATION

RR ROW

APPROX LOCATION of COC PROP. LIND



← COLLETON ROW →

N
↓

SAGAMON ROW
↓

10/7/13 947 W. COLLETON AVE, CHICAGO, IL

MICHAEL LUGSTON
 KEYS CARROLL
 CHRIS BEAN
 JUSTIN BORDACCHI

FIELD CALIBRATED
 AT EACH STARTUP.
 DATED 10/7/13
 SPOT SAMPLE
 CHECKS W/ XRF

SS#	PPM
100	Ø
101	328
102	46
103	221
104	132
105	328
106	142
107	85
108	20
09	32
10	36
11	42
12	125
13	48
14	112
114	76
115	48
116*	27
117*	

P.R. ROW

STAGANON R.O.W.

AREA of
 EXCAVATION
 9/20-10/3

AREA of RE-DIG

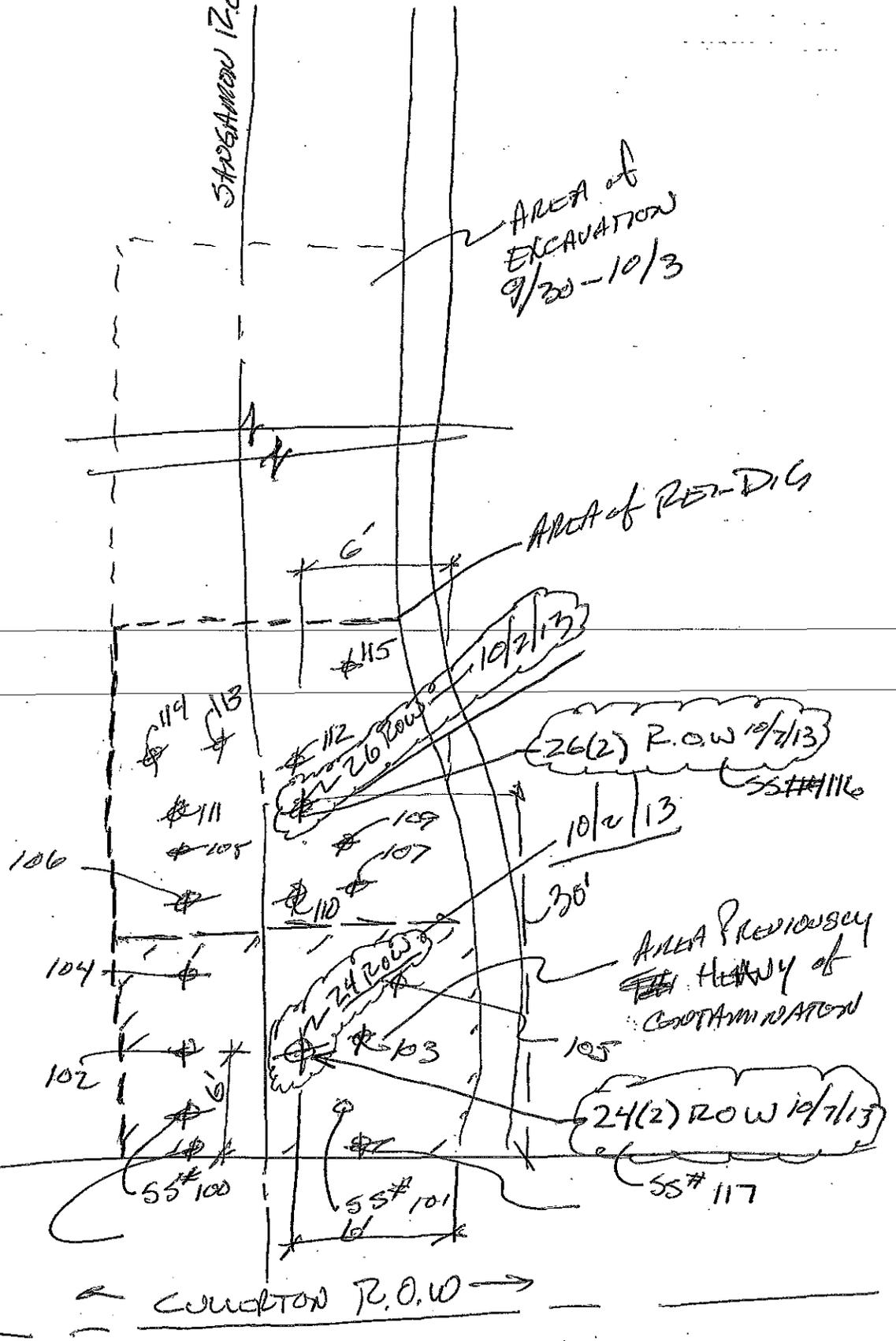
26(2) R.O.W 10/7/13

AREA PREVIOUSLY
 HEAVY of
 CONTAMINATION

24(2) R.O.W 10/7/13

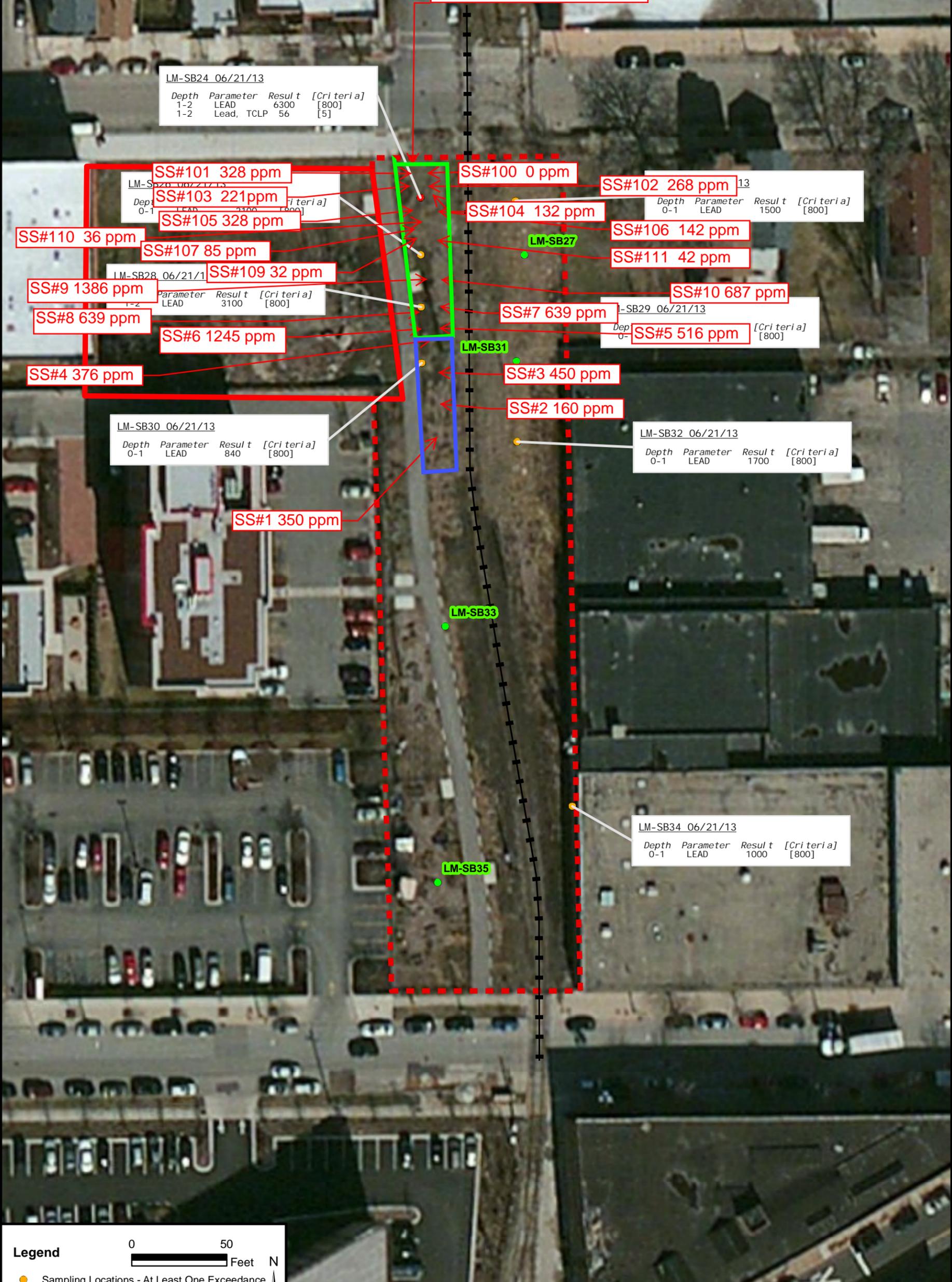
COLLETON R.O.W →

ALSO CLOSED
 SAMPLE LOCATIONS
 SAME AS 24 ROW
 AND 26 ROW
 TAKEN ON
 10/2/13



**Attachment 6
XRF Field Screening
Final Results**

Extent of ROW Remediation



FILE: D:\Loewenthal_Metals\mxd\Railway_SB_Excels_RML3.mxd 7/3/2013 8:58:44 AM wojdakon

Legend

- Sampling Locations - At Least One Exceedance
- Sampling Locations - No Exceedances
- Former Railroad
- - - Expanded Site Boundary
- ▭ Initial Site Boundary

0 50 Feet

Units:
Total Metals = mg/kg
TCLP Metals = mg/l

Prepared For:
US EPA Region V
Contract No.: EP-S5-06-04
TDD: S05-0001-1201-003
DCN: 1714-

Prepared By:
WESTON SOLUTIONS, INC.
750 E. Bunker Ct, Suite 500
Vernon Hills, Illinois 60061

Figure 1
Sampling Location and Results Map
Railway Area
Loewenthal Metals
Chicago, Cook County, Illinois

Attachment 7
Confirmation Soil Sample Locations and Results

Approximate extent of ROW remediation by City of Chicago

LM-SB24 06/21/13

Depth	Parameter	Result	[Criteria]
1-2	LEAD	6300	[800]
1-2	Lead, TCLP	56	[5]

	Depth	Total Lead	TCLP Lead
SB 24ROW	2 - foot	2,800 mg/kg	8.5 mg/l
SB 24(2)ROW	3 - foot	100 mg/kg	0.47 mg/l

LM-SB26 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	2100	[800]

LM-SB25 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1500	[800]

LM-SB28 06/21/13

Depth	Parameter	Result	[Criteria]
1-2	LEAD	3100	[800]

	Depth	Total Lead	TCLP Lead
SB 26ROW	2 - foot	25,000 mg/kg	NA
SB 26(2)ROW	3 - foot	36 mg/kg	0.053

LM-SB29 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1600	[800]

SB28 ROW - Lead Sample Result
Depth - 3 foot 930 mg/kg

LM-SB31

SB 32ROW - Lead sample result
Depth - 2 foot 2,300 mg/kg

LM-SB30 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	840	[800]

LM-SB32 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1700	[800]

SB30 ROW - Lead Sample Result
Depth - 2 foot 870 mg/kg

LM-SB33

LM-SB34 06/21/13

Depth	Parameter	Result	[Criteria]
0-1	LEAD	1000	[800]

LM-SB35

Legend

- Sampling Locations - At Least One Exceedance
- Sampling Locations - No Exceedances
- Former Railroad
- ▭ Expanded Site Boundary
- ▭ Initial Site Boundary

0 50 Feet

Units:
Total Metals = mg/kg
TCLP Metals = mg/l

Prepared For:
US EPA Region V
Contract No.: EP-S5-06-04
TDD: S05-0001-1201-003
DCN: 1714-

Prepared By:
WESTON SOLUTIONS, INC.
750 E. Bunker Ct, Suite 500
Vernon Hills, Illinois 60061

Figure 1
Sampling Location and Results Map
Railway Area
Loewenthal Metals
Chicago, Cook County, Illinois

October 03, 2013

SET Environmental, Inc.
450 Sumac Road
Wheeling, IL 60090
Telephone: (847) 537-9221
Fax: (847) 537-9265

RE: City of Chicago, 947 W. Cullerton Ave, Chicago, IL

STAT Project No 13100052

Dear SET Environmental, Inc.:

STAT Analysis received 4 samples for the referenced project on 10/2/2013 1:40:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla
Project Manager

Client: SET Environmental, Inc.**Project:** City of Chicago, 947 W. Cullerton Ave, Chicago, IL**Lab Order:** 13100052**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13100052-001A	SB24	R.O.W	10/2/2013 1:00:00 PM	10/2/2013
13100052-002A	SB26	R.O.W	10/2/2013 1:10:00 PM	10/2/2013
13100052-003A	SB28	R.O.W	10/2/2013 1:20:00 PM	10/2/2013
13100052-004A	SB30	R.O.W	10/2/2013 1:30:00 PM	10/2/2013

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: October 03, 2013

Date Printed: October 03, 2013

Client: SET Environmental, Inc.

Project: City of Chicago, 947 W. Cullerton Ave, Chicago, IL

Lab Order: 13100052

Lab ID: 13100052-001

Collection Date 10/2/2013 1:00:00 PM

Client Sample ID:SB24 R.O.W

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 10/3/2013		Analyst: JG
Lead	2800	1.2		mg/Kg-dry	20	10/3/2013
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 10/3/2013		Analyst: JG
Lead	8.5	0.005		mg/L	5	10/3/2013
Percent Moisture	D2974			Prep Date: 10/2/2013		Analyst: VA
Percent Moisture	22.1	0.2	*	wt%	1	10/3/2013

Lab ID: 13100052-002

Collection Date 10/2/2013 1:10:00 PM

Client Sample ID:SB26 R.O.W

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 10/3/2013		Analyst: JG
Lead	25000	51		mg/Kg-dry	1000	10/3/2013
Percent Moisture	D2974			Prep Date: 10/2/2013		Analyst: VA
Percent Moisture	11.5	0.2	*	wt%	1	10/3/2013

Lab ID: 13100052-003

Collection Date 10/2/2013 1:20:00 PM

Client Sample ID:SB28 R.O.W

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 10/3/2013		Analyst: JG
Lead	930	5.2		mg/Kg-dry	100	10/3/2013
Percent Moisture	D2974			Prep Date: 10/2/2013		Analyst: VA
Percent Moisture	19.0	0.2	*	wt%	1	10/3/2013

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: October 03, 2013

Date Printed: October 03, 2013

Client: SET Environmental, Inc.**Project:** City of Chicago, 947 W. Cullerton Ave, Chicago, IL**Lab Order:** 13100052**Lab ID:** 13100052-004**Collection Date:** 10/2/2013 1:30:00 PM**Client Sample ID:** SB30 R.O.W**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Metals by ICP/MS**SW6020 (SW3050B)**

Prep Date: 10/3/2013

Analyst: JG

Lead

870

5.3

mg/Kg-dry

100

10/3/2013

Percent Moisture**D2974**

Prep Date: 10/2/2013

Analyst: VA

Percent Moisture

13.8

0.2

*

wt%

1

10/3/2013

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

STAT Analysis Corporation

2242 W. Harrison Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386

e-mail address: STATinfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

→ 947 W. Cullerton Ave

Bill to: SET Environmental Inc

CHAIN OF CUSTODY RECORD

No: 852611

Page: 1 of 1

Company: ~~SECRETED~~ City of Chicago
 Project Number: 1309-0180 Client Tracking No.:
 Project Name: 749 W. CULLERTON ST.
 Project Location: SAN ANTON R.O.W. South of Cullerton
 Sampler(s): M. W. LIVINGSTON
 Report To: DAVE GRAHAM Phone: 312 744 3639
 ACT - MIKE LIVINGSTON Fax: 622 224 688 0679
 QC Level: 1 2 3 4 e-mail:

P.O. No.:
 Quote No.:
 Turn Around:
 Results Needed:
 10/4/13 am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Remarks	Lab No.:
SB 24 R.O.W	10/2/13	1300			X	Ø	2		001
SB 26 R.O.W	10/2/13	1310			X	Ø	2		002
SB 28 R.O.W.	10/2/13	1320			X	Ø	2		003
SB 30 R.O.W.	10/2/13	1330			X	Ø	2		004

~~SECRETED~~
 TOTAL Pb
 TELP
 Friday 10/4/13
 Turn Around: 3 DAY
 Results Needed: 10/4/13 am/pm

Relinquished by: (Signature) *[Signature]* Date/Time: 10/2/13 1340
 Received by: (Signature) *[Signature]* Date/Time: 10/2/13 1710
 Relinquished by: (Signature) *[Signature]* Date/Time: 10/2/13 1340
 Received by: (Signature) Date/Time:
 Relinquished by: (Signature) Date/Time:
 Received by: (Signature) Date/Time:

Comments: City of Chicago
 Project Site: 947 W. Cullerton Ave
 Chicago, IL
 Preservation Code: A = None B = HNO₃ C = NaOH
 D = H₂SO₄ E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 1300052
 Received on Ice: Yes No
 Temperature: 22.9 °C

5 of 6

Sample Receipt Checklist

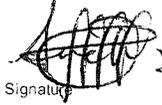
Client Name **SET**

Date and Time Received: **10/2/2013 1:40:00 PM**

Work Order Number **13100052**

Received by: **DO**

Checklist completed by:


Signature

10/2/13

Date

Reviewed by:

FC

Initials

FC
10/2/13

Date

Matrix:

Carrier name: Client Delivered

- | | | | |
|---|---|------------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels/containers? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container or Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Temperature 22.9 °C |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| Water - Samples pH checked? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Checked by: |
| Water - Samples properly preserved? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | pH Adjusted? |

Any No response must be detailed in the comments section below.

Comments: **COC states unspecific TCLP analysis**

Client / Person contacted:

Mike Livingston Date contacted: **10/2/13**

Contacted by: **Frank C. (phone)**

Response:

TCLP lead.

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

October 08, 2013

SET Environmental, Inc.
450 Sumac Road
Wheeling, IL 60090
Telephone: (847) 537-9221
Fax: (847) 537-9265

RE: 1309-01180, City of Chicago, 947 Cullerton

STAT Project No 13100203

Dear SET Environmental, Inc.:

STAT Analysis received 2 samples for the referenced project on 10/7/2013 2:50:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: SET Environmental, Inc.
Project: 1309-01180, City of Chicago, 947 Cullerton
Lab Order: 13100203

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13100203-001A	24(2) R.O.W		10/7/2013 2:00:00 PM	10/7/2013
13100203-002A	26(2) R.O.W		10/7/2013 2:10:00 PM	10/7/2013

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: October 08, 2013

Date Printed: October 08, 2013

Client: SET Environmental, Inc.

Project: 1309-01180, City of Chicago, 947 Cullerton

Lab Order: 13100203

Lab ID: 13100203-001

Collection Date 10/7/2013 2:00:00 PM

Client Sample ID:24(2) R.O.W

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 10/8/2013		Analyst: JG
Lead	100	0.53		mg/Kg-dry	10	10/8/2013
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 10/8/2013		Analyst: JG
Lead	0.47	0.005		mg/L	5	10/8/2013
Percent Moisture	D2974			Prep Date: 10/7/2013		Analyst: SDA
Percent Moisture	17.5	0.2	*	wt%	1	10/8/2013

Lab ID: 13100203-002

Collection Date 10/7/2013 2:10:00 PM

Client Sample ID:26(2) R.O.W

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)			Prep Date: 10/8/2013		Analyst: JG
Lead	36	0.54		mg/Kg-dry	10	10/8/2013
TCLP Metals by ICP/MS	SW1311/6020 (SW3005A)			Prep Date: 10/8/2013		Analyst: JG
Lead	0.053	0.005		mg/L	5	10/8/2013
Percent Moisture	D2974			Prep Date: 10/7/2013		Analyst: SDA
Percent Moisture	13.4	0.2	*	wt%	1	10/8/2013

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

450 Sumac Road, Wheeling, IL 60090 Ph: 847-537-9221 * Fax: 847-537-9265 www.setenv.com

COC #: 29314

Client: <u>CITY of CHICAGO</u> Address: <u>947 COLUMBIA</u> Phone #: <u>7246880679</u> Fax #: P.O. #: <u>1309-01180</u> Proj #: <u>1309-01180</u> Client Contact: <u>MIKE LIVINGSTON</u> Sampler: <u>MIKE LIVINGSTON</u>	Sample Type: 1. Waste Water 4. Sludge 7. Groundwater (filtered) 2. Drinking Water 5. Oil 8. Other _____ 3. Soil 6. Groundwater Container Type: P-Plastic V-VOC Vial O-Other _____ G-Glass B-Tedlar Bag Preservative: 1. None 3. HN03 5. HCl 7. On Ice 2. H2SO4 4. NaOH 6. MeOH 8. Other _____	Analyses <div style="font-size: 2em; font-weight: bold; text-align: center;"> TULL P6 TETAL P6 </div>
---	---	--

Sample I.D. / Drum Numbers	Sample Type	Container			Sampling				Preservation	
		Size	Type	No.	pH	Temp	Date	Time	Field	Lab
24(2) ROW	SOIL	4oz	3	1			10/7	1400		
24(2) ROW	SOIL	4oz	3	1			10/7	1400		
26(2) ROW	SOIL	4oz	3	1			10/7	1410		
26(2) ROW	SOIL	4oz	3	1			10/7	1410		

Relinquished By: <u>MW [Signature]</u>	Date: <u>10/7/13</u> Time: <u>1450</u>	Received By: <u>[Signature]</u>	Date: <u>10/7/13</u> Time: <u>14:50</u>
Relinquished By:	Date: / / Time: :	Received By:	Date: / / Time: :
Relinquished By:	Date: / / Time: :	Received By:	Date: / / Time: :

Notes/Waste Generated:

Received On Ice Yes No

Temperature: Ambient °C

SPECIAL INSTRUCTIONS:

Turnaround Time: Rush (circle one) 2 or 3 day TAT Routine (5-10 days)

SET Contact: MIKE LIVINGSTON Lab: PAVE COZZI

Due Date: _____

Sample Receipt Checklist

Client Name SET
Work Order Number 13100203

Date and Time Received: 10/7/2013 2:50:00 PM
Received by: DO

Checklist completed by: [Signature] 10/7/13
Signature Date

Reviewed by: EMP 10/8/13
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature Ambient °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

October 04, 2013

SET Environmental, Inc.
450 Sumac Road
Wheeling, IL 60090
Telephone: (847) 537-9221
Fax: (847) 537-9265

RE: City of Chicago, 947 W. Cullerton, Chicago, IL

STAT Project No: 13100101

Dear SET Environmental, Inc.:

STAT Analysis received 1 sample for the referenced project on 10/3/2013 12:55:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Frank Capoccia
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

Client: SET Environmental, Inc.
Project: City of Chicago, 947 W. Cullerton, Chicago, IL
Lab Order: 13100101

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13100101-001A	32 ROW		10/3/2013 12:00:00 PM	10/3/2013

STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: October 04, 2013

Date Printed: October 04, 2013

Client: SET Environmental, Inc.

Client Sample ID: 32 ROW

Lab Order: 13100101

Collection Date: 10/3/2013 12:00:00 PM

Project: City of Chicago, 947 W. Cullerton, Chicago, IL

Matrix: Soil

Lab ID: 13100101-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	SW6020 (SW3050B)				Prep Date: 10/4/2013	Analyst: BJA
Lead	2300	1.5		mg/Kg-dry	10	10/4/2013
Percent Moisture	D2974				Prep Date: 10/3/2013	Analyst: VA
Percent Moisture	33.5	0.2	*	wt%	1	10/3/2013

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 HT - Sample received past holding time
 * - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 H - Holding time exceeded

Sample Receipt Checklist

Client Name SET

Date and Time Received: 10/3/2013 12:55:00 PM

Work Order Number 13100101

Received by: TJW

Checklist completed by: [Signature] 10/3/13
Signature Date

Reviewed by: EMUP 10/3/13
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels/containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container or Temp Blank temperature in compliance? Yes No Temperature Ambient °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Samples pH checked? Yes No Checked by: _____
- Water - Samples properly preserved? Yes No pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: _____

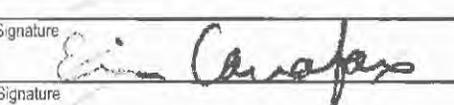
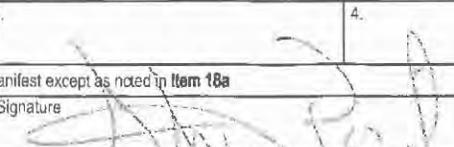
Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

Box 2027 7134051EL 59450

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 ILR000177592	2. Page 1 of 1	3. Emergency Response Phone 877-437-7455	4. Manifest Tracking Number 012226200 JJK		
5. Generator's Name and Mailing Address City of Chicago 2FM 30 N LaSalle Suite 300 Chicago, IL 60602			Generator's Site Address (if different than mailing address) 947 W. Calumet Chicago, IL 60608				
Generator's Phone: 312-744-3839							
6. Transporter 1 Company Name SET Environmental, Inc.				U.S. EPA ID Number ILD981957236			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address Enviro of Illinois 16435 Center Ave. Harvey, IL 60428				U.S. EPA ID Number ILD000666206			
Facility's Phone: (708) 598-7040							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
	RC 1	HAZARDOUS WASTE SOLID A.C.S. (1000) PULV BRGN 171	01	cm	15	Y	RD001
	2.						
	3.						
4.							
14. Special Handling Instructions and Additional Information Lead Contaminated Soil (7134051EL)							
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 MICHAEL LIVINGSTON FOR CITY OF CHICAGO				Signature 		Month Day Year 10 2 13	
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name Eric Canafax			Signature 		Month Day Year 10 02 13	
	Transporter 2 Printed/Typed Name			Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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)							
19. Hazardous Waste Report Management Method Codes (i.e. codes for hazardous waste treatment, disposal, and recycling systems)							
1. H110		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				Signature 		Month Day Year 10 02 13	
Printed/Typed Name Shawn [unclear]							

#20-30 J1340SIEK 59483

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number ILR000177592	2. Page 1 of 1	3. Emergency Response Phone 877-437-7455		4. Manifest Tracking Number 012226276 JJK				
		5. Generator's Name and Mailing Address City of Chicago-2FM 30 N LaSalle Suite 300 Chicago, IL 60602			Generator's Site Address (if different than mailing address) 947 W. Cullerton Chicago, IL 60608			Generator's Phone: 312-744-3639		
6. Transporter 1 Company Name SET Environmental, Inc					U.S. EPA ID Number ILD981957236					
7. Transporter 2 Company Name					U.S. EPA ID Number					
8. Designated Facility Name and Site Address Enviro of Illinois 16435 Center Ave. Harvey, IL 60426					U.S. EPA ID Number ILD000666206					
Facility's Phone: (708) 598-7040										
GENERATOR	9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
					No. Type					
	1. RC		NA3077 Hazardous waste, solid, H.O.S. (D008)		9 001 CM		15	Y	D008	
	2.									
	3.									
4.										
14. Special Handling Instructions and Additional Information Lead Contaminated Soil										
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 MICHAEL L. WILSON FOR City of Chicago					Signature <i>Michael L. Wilson</i>			Month 10	Day 07	Year 13
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
17. Transporter Acknowledgment of Receipt of Materials										
Transporter 1 Printed/Typed Name Eric Carafax					Signature <i>Eric Carafax</i>			Month 10	Day 07	Year 13
Transporter 2 Printed/Typed Name					Signature			Month	Day	Year
18. Discrepancy										
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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 Stewart P...					Signature <i>Stewart P...</i>			Month 10	Day 07	Year 13

* 20-40 J134051EIL 59506

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 IIR000177592	2. Page 1 of 1	3. Emergency Response Phone 877-437-7455		4. Manifest Tracking Number 012226277 JJK			
		5. Generator's Name and Mailing Address City of Chicago-2FM 30 N LaSalle Suite 300 Chicago, IL 60602			Generator's Site Address (if different than mailing address) 947 W. Cullerton Chicago, IL 60608				
6. Transporter 1 Company Name SET Environmental, Inc.		Generator's Phone: 312-744-3539				U.S. EPA ID Number ILD981957236			
7. Transporter 2 Company Name						U.S. EPA ID Number			
8. Designated Facility Name and Site Address Enviro of Illinois 16435 Center Ave. Harvey, IL 60426		Facility's Phone: (708) 596-7040				U.S. EPA ID Number ILD000665206			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol	13. Waste Codes	
	1.	NA3077 Hazardous waste, solid, n.o.s. (TX08) 9 PGIII ERG# 171		No.	Type	15	Y	D008	
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information Lead Contaminated Soil (J134051EIL)									
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/Offor's Printed/Typed Name Michael W. Livingston		Signature <i>Michael Livingston</i>		Month		Day		Year	
				10		07		13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/ext: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Eric Canafax		Signature <i>Eric Canafax</i>		Month		Day		Year	
				10		07		13	
Transporter 2 Printed/Typed Name		Signature		Month		Day		Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____									
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. H110		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 Shawn		Signature <i>Shawn</i>		Month		Day		Year	
				10		12		13	

Box 20-31 J134051EL 59516

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number ILR000177592	2. Page 1 of 1	3. Emergency Response Phone 877-437-7455	4. Manifest Tracking Number 012226199 JJK				
5. Generator's Name and Mailing Address City of Chicago-2FM 30 N LaSalle Suite 300 Chicago, IL 60602				Generator's Site Address (if different than mailing address) 947 W. Cullerton Chicago, IL 60608					
Generator's Phone: 312-744-3639									
6. Transporter 1 Company Name SET Environmental, Inc.				U.S. EPA ID Number ILD981957236					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address Enviro of Illinois 16435 Center Ave. Harvey, IL 60426				U.S. EPA ID Number ILD000666206					
Facility's Phone: (708) 598-7040									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		RC 1. NA3077 Hazardous waste, solid, n.o.s. (TX003)		No.	Type				
		9 PGIII ERG# 171		01	CM	15	Y	D008	
		2.							
		3.							
	4.								
14. Special Handling Instructions and Additional Information 1 - Lead Contaminated Soil									
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 NICHOLAS L. LYSTON FOR CITY OF CHICAGO				Signature <i>Nicholas L. Lyston</i>		Month 10	Day 2	Year 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Michael Neri				Signature <i>Michael Neri</i>		Month 10	Day 2	Year 13	
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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 N. A. ...				Signature <i>N. A. ...</i>		Month 10	Day 2	Year 13	

Box 20-37
JIBHOSIEK

59550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number ILR000177592	2. Page 1 of 1	3. Emergency Response Phone 877-437-7455	4. Manifest Tracking Number 012226198 JJK		
5. Generator's Name and Mailing Address City of Chicago-2FM 30 N LaSalle Suite 300 Chicago, IL 60602 Generator's Phone: 312-744-3838				Generator's Site Address (if different than mailing address) 847 W. Quilerton Chicago, IL 60608			
6. Transporter 1 Company Name SET Environmental, Inc.					U.S. EPA ID Number ILD981957236		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address Enviro of Illinois 16435 Center Ave. Harvey, IL 60426 Facility's Phone: (708) 598-7040					U.S. EPA ID Number ILD000666206		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
RC 1 9	HA3077 Hazardous waste, solid, n.o.s. (TX08) P001 (RC# 17)	01	CM	154	GU LD	D008	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information Lead-Contaminated Soil							
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 MICHAEL W. LIVINGSTON				Signature <i>[Signature]</i>		Month Day Year 10 2 13	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Michael Nevel				Signature <i>[Signature]</i>		Month Day Year 10 2 13	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____							
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.	H110	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 LEONARD E HONAY				Signature <i>[Signature]</i>		Month Day Year 10 2 13	

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY