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September 1st, 2016

Mr. Steven Renninger
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U.S. Environmental Protection Agency, Region 5
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**Subject: Final Removal Assessment Report
Terry Company Site
Dayton, Montgomery County, Ohio
Technical Direction Document No. S05-0001-16-06-001
SRS Contract No. EP-S5-16-01**

Dear Mr. Renninger:

Sustainment and Restoration Services, LLC (SRS) Superfund Technical Assessment and Response Team (START) is submitting the enclosed Terry Company Site Final Removal Assessment (RS) Report dated September 1st, 2016. If you have any questions, please contact me at (312) 220-7171.

Sincerely,

Katherine Cooper for Ryan Stubbs
START Project Manager

**REMOVAL ASSESSMENT REPORT
TERRY COMPANY SITE - RS
DAYTON, MONTGOMERY COUNTY, OHIO**

Final Report

Prepared for:

U.S. Environmental Protection Agency,
Emergency Response Branch Region 5
77 West Jackson Boulevard Chicago, IL 60604

TDD No.:	S05-0001-16-06-001
Date Prepared:	September 1 st , 2016
Contract No.:	EP-S5-16-01
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1. INTRODUCTION

Sustainment and Restoration Services LLC (SRS) performed the Removal Assessment (RS) of the Terry Company Site (Site) located at 750 Albany Street in Dayton, Montgomery County, Ohio. SRS, the Superfund Technical Assessment and Response Team (START) contractor, was tasked by the United States Environmental Protection Agency (U.S. EPA), under contract number EP-S5-16-01 and Technical Direction Document (TDD) No. S05-0001-16-06-001, to perform this RS. SRS START was tasked to prepare a site-specific Health and Safety Plan (HASP) and a field Sampling and Analysis Plan (SAP); procure the services of an analytical laboratory; collect container, drum, and tanker samples; conduct a container, drum, and tanker inventory; document on-site conditions with written logbook notes and still photographs; evaluate analytical data; and prepare this RS report. SRS START members Katherine Cooper and Ryan Stubbs conducted the field investigation and sampling on July 21st, 2016.

This RS report summarizes the Site background; discusses the assessment; provides a summary of the analytical data; and discusses potential site-related threats. The appendices for this report include a sample summary table (Appendix A), figures (Appendix B), photographic log (Appendix C), and the validated sample analytical results (Appendix D).

2 SITE BACKGROUND

This section provides a description of the Site and the Site history.

2.1 Site Description

The Terry Company Site is located at 750 Albany Street, Dayton, Ohio (Figure 1 - Site Location Map). The geographical coordinates for the Site are 39.744325° North latitude and -84.209201° West longitude. In this report, Terry Company and Terry Corporation refer to the same entity. The Site includes a 6,000 square foot (ft²) concrete block building and the surrounding fenced lot. The Site is physically bounded to the north side by two businesses followed by Albany Street, to the south by Homestead Avenue, to the east by Acculube business followed by Carr Street, and to the west by Midwest Iron & Metal business followed by CSX railroad tracks. The area around the Site is a mix of residential and commercial properties. The commercial businesses, Midwest Iron & Metal and Acculube, are located within 30 feet of the Site (Figure 2 – Site Features Map).

2.2 Site History

Terry Corporation operated for 10 years at the Site as a contractor providing water proofing and coating services and closed its business in 2012. During its operations, numerous two part chemical mixtures were stored and mixed on-site for application in commercial and residential buildings. A 6,000-gallon tanker trailer was utilized to mix chemical sealers which was then transferred to 300-gallon totes for crews to apply in buildings.

On April 26, 2010, the City of Dayton Department of Water issued an Administrative Order to Terry Corporation (Terry Corp) for a violation of the City of Dayton Sewer Use Ordinance. Terry Corp violated the City of Dayton Sewer Use Ordinance, which states, “No person shall discharge or cause to be discharged to any of the City’s wastewater facilities any substances, materials, waters, or wastes in such quantities or concentrations which in whole or in part contain any type of oils, fat, or grease that may cause or contribute to the obstruction of the flow in sewers...”. Terry Corp was assessed a fee of \$3,290 in the Administrative Order (City of Dayton, 2010).

On April 19, 2016, City of Dayton Building Services Zoning Department discovered that 750 Albany Street, site of Terry Corp, appeared not to be in operation. The inspection identified drums improperly stored outside, totes of what appeared to be oil stored outside, open containers of 5-gallon buckets of unknown liquids, and a tanker. The lot and grounds of the Site had not been kept up; vegetation growth was noticeable and possible vagrant activity on the Site (City of Dayton, 2016).

On April 20, 2016, the City of Dayton Division of Environmental Management, Ohio EPA, and Dayton Fire Department (DFD) met with the Terry Corp Site owner at the Site. During the site inspection, forty-two drums, several 330 gallon totes and a tanker were in the outside lot on the site. Three drums had tipped over and contents in the drums had leaked out. There were also signs of vagrants on the Site. On April 20, 2016, the DFD issued a Notice of Violation to Terry Corp. DFD noted numerous 55-gallon drums were not marked or labeled and the contents were unknown. DFD required the owner to remove all containers from the Site (DFD, 2016).

On May 11, 2016, the Ohio EPA issued a Notice of Violation to Terry Corporation due to an investigation that was conducted because of a complaint alleging there were 55-gallon drums on-site and there is a concern that the drums are leaking onto the ground. Ohio noted the following hazardous waste rule violations:

Terry Corporation has failed to identify the contents of the forty-three – 55 gallon drums, two – 250 gallon totes and a tanker truck that was observed at the time of the investigation. Terry Corporation has failed to identify the contents of all of the containers that were observed inside the building that is located at 750 Albany Street, Dayton, Ohio.

The Ohio EPA Notice of Violation required Terry Corporation to immediately inventory and identify the contents of all the containers at the Site. The Ohio EPA required Terry Corporation to submit an inventory and evaluations including analytical results within 14 days. In a document dated July 7th, 2016, Ohio EPA formally requested assistance from EPA to determine if the Site meets the criteria for a removal action (Ohio EPA, 2016).

3 REMOVAL ASSESSMENT ACTIVITIES

U.S. EPA and START members performed RS activities on July 21st, 2016. Assessment activities included Site reconnaissance, field screening, and collection of container, drum, and tanker samples. These RS assessment activities are discussed below.

A site-specific SAP was developed prior to mobilizing for the assessment and to perform the fieldwork. The SAP described the data quality objectives (DQO), sampling strategy, sampling locations, sampling methodology, and analytical procedures for analyzing the samples.

This section summarizes site reconnaissance (subsection 3.1) and sampling (subsection 3.2). Table 1 (Appendix A) presents a summary of collected samples. Photographic documentation is provided in Appendix C.

3.1 Site Reconnaissance

U.S. EPA On-Scene Coordinator (OSC) Steven Renninger and START members Katherine Cooper and Ryan Stubbs mobilized to the Site on July 21st, 2016. Site reconnaissance was performed in level “D” personal protective equipment (PPE) in accordance with the approved site-specific HASP. START members calibrated the MultiRAE® Plus photoionization detector (PID) multi-gas monitor and the Ludlum model 192 gamma radiation monitor prior to conducting the Site reconnaissance. The MultiRAE® Plus gas monitor measures carbon monoxide (CO), volatile organic compounds (VOCs), hydrogen sulfide (H₂S), lower explosive limit (LEL), and oxygen(O₂). The Ludlum model is a high-sensitivity gamma radiation MicroR survey meter.

The Site is comprised of a two-story concrete block building and an outside lot. The Site building was secured by locked doors and surrounded by fencing with a locked gate. During the Site inspection START observed approximately 81 55-gallon drums, 230 containers (having a volume of 5-gallons or less), seven 330-gallon totes, and one 6,000-gallon tanker that was half full. Drums and containers were located in the northern portion of the building and in the outside lot (see Figure 2). Drums and containers inside the building were observed as rusted and deteriorated with contents spilled on the floor and in some

places adjacent to floor drains which may lead to the storm water and municipal sewer system. Approximately eight 55-gallon drums located inside the building were labeled “Barriseal-S” and “Hydrocide 700B”. According to the “Barriseal-S” Material Safety and Data Sheet (MSDS), it is a water based asphalt emulsion (Carlisle Coatings and Waterproofing Incorporated, 2016). According to the “Hydrocide 700B” MSDS, it is a coating composed of asphalt petroleum (BASF Building Systems, Inc., 2006). Three compressed gas cylinders were also observed in the northern portion of the building. Groups of smaller containers of waste were located on shelves, cabinets, piles, and comingled with solid waste in storage areas. Puddles of water were observed inside the building on-site indicating potential roof leaks. Forty-two 55-gallon drums, four 330-gallon totes, and one 6000-gallon tanker were located outside the building near the northeastern perimeter of the Site. Drums outside the building were noted as rusted and deteriorated with contents spilled on the ground near an overturned drum. Several bulging drums were also observed outside of the Site building.

3.2 Field Screening and Sampling

Field screening was performed using pH field tests and a MultiRAE® Plus PID multi-gas monitor to screen samples for VOCs prior to collection. Field screening with a pH paper documented some drums and containers having a pH as low as 1 standard unit (SU). Multi RAE Pro screening indicated VOC concentrations as high as 618 parts per million (ppm). Based on field screening results, START members and the OSC selected drums and containers for sample collection and laboratory analysis.

A total of 18 liquid samples, including two duplicates, were collected during the RS investigation. Duplicate sample TCS-24D (native sample TCS-24) was collected for flashpoint determination and duplicate sample TCS-27D (native sample TCS-27) was collected for pH determination.

START members collected liquid container and drum samples from the containers and the overturned drum directly into lab-supplied glass sample containers. The tanker sample was collected using a dedicated bailer and transferring liquid directly into lab supplied glass

sample containers. Sample containers were labeled and placed on ice for shipment to the laboratory.

Samples were submitted to an U.S. EPA approved commercial laboratory for corrosivity determination by pH in accordance with EPA method SW-846 9045C, ignitability determination by flashpoint in accordance with SW-846 1010A, and Total Toxicity Characteristic Leaching Procedure (TCLP) List VOCs in accordance with SW-846 8260B. Sample information is summarized in Appendix A, Table 1.

3.3 Drum and Container Inventory

START members conducted a drum and container inventory during this assessment. There were approximately 81 55-gallon drums, 230 containers (having a volume of 5-gallons or less), seven 330-gallon totes, and one 6,000-gallon tanker on-site. Drums and containers were noted as rusted and deteriorated with contents spilled on the floor in close proximity to floor drains. Forty-two deteriorated 55-gallon drums, four 330-gallon totes, and a half-filled 6,000-gallon tanker trailer were located outside of the Site building.

4 SAMPLE ANALYTICAL RESULTS

START members reviewed the sample analytical data and supporting quality assurance/quality control (QA/QC) data provided by ALS Environmental laboratory and performed data validation of the results. The validated analytical data package is included in Appendix D. Based on START's data validation, the data are acceptable for use as qualified.

The following section summarizes laboratory analytical results for samples collected during the RS field activities. For purposes of evaluating hazardous characteristics, samples were compared to the Code of Federal Regulations (CFR) Title 40 sections 261.21 and 261.22, which identify the characteristics of a hazardous waste for ignitability and corrosivity, respectively. Concentrations of Total VOCs were compared against TCLP regulations under 40 CFR section 261.24 for determining toxicity characteristics of the samples. Table 1 summarizes all detected sample analytical results.

Analytical results of samples submitted for flashpoint determination documented 11 out of 14 samples exhibit the characteristic of ignitability. Analytical results of samples TCS-05, TCS-07, TCS-10, TCS-16, TCS-18, TCS-20, TCS-21, TCS-24, TCS-24D, TCS-34, and TCS-37 documented flashpoint temperatures less than 140 degrees Fahrenheit (°F), which, according to 40 C.F.R. § 261.21, exhibits the characteristic of a hazardous waste for ignitability. A solid waste that exhibits the characteristic of ignitability has the EPA Hazardous Waste Number of D001. Flashpoint temperatures ranged from less than 66 °F to less than 117 °F. The lowest flashpoint temperature documented was in sample TCS-05 collected from drum labelled "Protectosil® CHEM-TRETE 40 VOC – Ethanol". Analytical results from sample TCS-37 collected from the over-turned 55-gallon drum whose contents were spilled on the ground indicated a flashpoint temperature of 96 °F.

Analytical results for samples submitted for pH determination documented four out of five samples exhibit the characteristic of corrosivity. Sample results from samples TCS-27, TCS-27D, TCS-29 and TCS-35 documented liquid having a pH level less than 2.0 standard units (SU), which, according to 40 C.F.R. § 261.22, exhibits the characteristic of a hazardous waste for corrosivity. A solid waste that exhibits the characteristic of corrosivity has the

EPA Hazardous Waste Number of D002. The pH results ranged from less than 1 SU to less than 1.6 SU. The lowest pH was documented in sample TCS-29 collected from container hand-labelled “Hydrochloric Acid”. Analytical results of sample TCS-36 collected from the 6,000-gallon tanker indicated a pH level of 9 SU. Analytical results of the four samples collected during this assessment did not indicate any detections of the site-specific VOCs.

5 POTENTIAL SITE RELATED THREATS

Threats posed by on-site contamination and Site conditions were evaluated in accordance with The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) criteria for initiating removal action listed under Title 40 of the CFR, Section 300.415(b) (2).

Paragraph (b) (2) of 40 CFR Section 300.415 lists factors to be considered when determining the appropriateness of a potential removal action at a site. Potential site-related threats to human health and the environment were evaluated based on the criteria listed in 40 CFR, Sections 261.21 through 261.24. Factors that may be applicable to the Site are discussed below.

Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances or pollutants or contaminants (40 CFR 300.415(b)(2)(i))

During the July 21, 2016, Site investigation, START documented drums and containers containing ignitable and corrosive characteristic material at the Site.

Analytical results of 11 out of 14 samples exhibited the characteristic of ignitability. Sample results from samples TCS-05, TCS-07, TCS-10, TCS-16, TCS-18, TCS-20, TCS-21, TCS-24, TCS-24D, TCS-34, and TCS-37 documented liquid having flashpoint temperatures less than 140°F, exhibiting the characteristic of ignitability and the EPA Hazardous Waste Number of D001. Flashpoint temperatures ranged from less than 66 °F to less than 117 °F. The lowest flashpoint temperature documented was in sample TCS-05 collected from the drum labelled “Protectosil® CHEM-TRETE 40 VOC – Ethanol”.

Analytical results of four out of five samples submitted for pH determination exhibited the characteristic of corrosivity. Sample results from samples TCS-27, TCS-27D, TCS-29 and TCS-35 documented liquid having a pH level less than 2.0 standard units, exhibiting the characteristic of corrosivity and the EPA Hazardous Waste Number of D002. The pH results ranged from less than 1 SU to less than 1.6 SU. The lowest pH was documented in sample TCS-29 collected from the container hand-labelled “Hydrochloric Acid”. Specific VOCs analyzed in Site samples were not detected in any of the samples collected from the Site.

Investigations done by Ohio EPA and U.S. EPA indicate a history of potential vagrants at the Site. The presence of confirmed hazardous materials both inside and outside the building at the Site pose a threat to vandals and trespassers through direct exposure. The close proximity of commercial areas to the abandoned Site greatly increases the likelihood of human health and environmental impacts should such an occurrence or release take place. The floor drain inside of the building at the Site presents an additional migration pathway for potential exposure. Human contact with these materials can result in exposure to corrosive and ignitable hazardous materials.

Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulkstorage containers that may pose a threat of release (40 CFR 300.415(b)(2)(iii))

During the Site investigation, U.S. EPA and START documented approximately 81 55-gallon drums, 230 containers (having a volume of 5-gallons or less), seven 330-gallon totes, and one 6,000-gallon. Drums and containers were observed as rusted and deteriorated with contents spilled on the floor in close proximity to floor drains that lead to the municipal sewer system. Forty-two deteriorated drums, in groups of five to ten, four 330-gallon totes, and a 6,000-gallon tanker were located outside of the Site building. An overturned drum with contents spilled on the ground and several bulging drums were also observed outside of the Site building.

Analytical results of the samples confirmed the presence of ignitable and corrosive waste at the Site. These containers were deteriorating, with visible spilled material on the ground and floor. Analytical results from the sample collected from the over-turned 55-gallon drum whose contents were spilled on the ground (TCS-37) indicated a flashpoint temperature of 96 °F. Pooled water on the floor indicate a leaking roof and may accelerate deterioration of the containers leading to the release of hazardous substances and migration of the hazardous material to off-site locations.

Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released (40 CFR 300.415(b)(2)(v))

Southwestern Ohio receives a substantial amount of precipitation during spring and winter temperatures are normally below freezing. Weather conditions will contribute to further deterioration of the already severely corroded drum and containers that have been documented to contain flammable and corrosive wastes.

There is nothing to prevent freezing and thawing of the contents in the drums and containers. Indoor drums and containers were noted to be open and deteriorated with spilled contents on the floor and in close proximity to floor drains which lead to the municipal sewer system. Forty-two deteriorated drums, in groups of five to ten, were located outside of the Site building. Several drums were noted as bulging due to summer heat and potential volatile organic contents. Additionally, an outdoor drum was observed overturned with its contents spilled on the surrounding soil, enabling contamination to migrate off-site following a rain event.

Threat of fire or explosion (40 CFR 300.415(b)(2)(vi))

Analytical results from this Site investigation documented that material in drums and containers were flammable wastes and posed a threat of fire or explosion. START sampling documented 11 samples having flashpoint results at or below 140 °F, which is the criteria for ignitibility for a RCRA characteristic waste. Flashpoint temperatures ranged from less than 66 °F to less than 117 °F. The lowest flashpoint temperature documented was in sample TCS-05. As such, these materials represent a threat of fire or explosion.

6 SUMMARY

On July 21st, 2016, U.S. EPA and START conducted a removal assessment at the Terry Company Site located in Dayton, Ohio. Field screening with a PID for VOCs and pH field tests were performed on drum and container contents prior to sampling. During sampling, 18 liquid samples were collected and submitted for pH and/or flashpoint determination, as well as Total VOCs analysis.

The analytical results for samples collected and analyzed for corrosivity determination by pH indicated four out of five samples as meeting the characteristic of corrosivity. The result documented liquid having a pH level less than 2.0 standard units which, according to 40 CFR § 261.22, meets the characteristic of a hazardous waste for corrosivity.

The analytical results for samples collected and analyzed for ignitability determination indicated 11 out of 15 samples as meeting the characteristic of ignitability. Analytical results from these samples documented liquid as having flashpoint temperatures less than 140 °F, which, according to 40 CFR§ 261.21, meets the characteristic of a hazardous waste for ignitability.

Abandoned containers holding hazardous material are present on the Terry Company Site property. Based on the proximity of commercial and residential properties and the history of vagrants at the Site, the corrosive and ignitable wastes pose a potential direct contact threat to the public. Additionally, weather conditions and the deteriorated condition of the containers poses a threat of release. The ignitable waste also poses a potential threat of fire and release of hazardous chemicals into the environment.

REFERENCES

1. Barriseal-S; MSDS No. 304920; Carlisle Coatings and Waterproofing Incorporated: Wylie, TX, March 15, 2016.
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11. SRS LLC 2016b. Terry Company Site Removal Assessment Sampling and Analysis Plan. July, 2016.
12. Title 40, Code of Federal Regulations, Part 261.21 through 261.24.
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[bin/retrieveECFR?gp=&SID=ed2b3385fdb87b20b76f206d98312575&n=40y27.0.1.1.2&r=PART&ty=HTML#40:27.0.1.1.2.3.1.2](http://www.ecfr.gov/bin/retrieveECFR?gp=&SID=ed2b3385fdb87b20b76f206d98312575&n=40y27.0.1.1.2&r=PART&ty=HTML#40:27.0.1.1.2.3.1.2). Accessed August 8, 2016.

13. Title 40, Code of Federal Regulations, Part 300.415(b)(2). http://www.ecfr.gov/cgi-bin/textidx?SID=8ec732f4f538f1b3c22207c3300f1e6b&mc=true&node=se40.30.300_1415&rgn=div8. Accessed August 8, 2016.

APPENDIX A

TABLE 1 – SAMPLE SUMMARY

**Table 1
Sample Summary
Terry Company Site
Dayton, Montgomery County, Ohio**

Sample Designation	TCS-05	TCS-07
Container Type	5-gallon plastic	1 Liter metal
Matrix	Liquid	Liquid
Label Information	Protectosil® CHEM-TRETE 40 VOC – Ethanol - Flammable 	Paint additive 
Field Screening Results		
Multi-Rae VOCs Reading	56 ppm	618 ppm
pH	N/A	N/A
Lab Results		
Flashpoint	< 66 °F	85 °F
pH	N/A	N/A
VOCs	U	N/A

Notes:

See last page

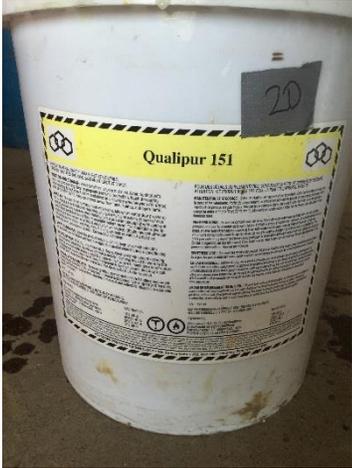
**Table 1 cont.
Sample Summary
Terry Company Site
Dayton, Montgomery County, Ohio**

Sample Designation	TCS-10	TCS-16
Container Type	5-gallon plastic	5-gallon plastic
Matrix	Liquid	Liquid
Label Information	<p>Neogard® - Epoxy Primer – Flammable</p>	<p>RPL 50 – Acrylic Lacquer Thinner – Toluene, Methanol, Acetone, Xylene – Flammable</p>
Field Screening Results		
Multi-Rae VOCs Reading	350 ppm	168 ppm
pH	N/A	N/A
Lab Results		
Flashpoint	< 70 °F	< 70 °F
pH	N/A	N/A
VOCs	N/A	U

Notes:

See last page

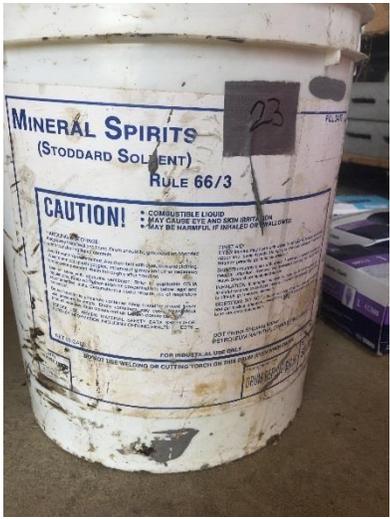
**Table 1 cont.
Sample Summary
Terry Company Site
Dayton, Montgomery County, Ohio**

Sample Designation	TCS-18	TCS-20
Container Type	5-gallon plastic	5-gallon plastic
Matrix	Liquid	Liquid
Label Information	Mel-Prime™ - Solvent-base VOC Primer – Flammable 	Qualipur 151 – Flammable 
Field Screening Results		
Multi-Rae VOCs Reading	515 ppm	15 ppm
pH	N/A	N/A
Lab Results		
Flashpoint	< 70 °F	105 °F
pH	N/A	N/A
VOCs	N/A	N/A

Notes:

See last page

**Table 1 cont.
Sample Summary
Terry Company Site
Dayton, Montgomery County, Ohio**

Sample Designation	TCS-21	TCS-23
Container Type	5-gallon plastic	5-gallon plastic
Matrix	Liquid	Liquid
Label Information	Mineral Spirits – Stoddard Solvent 	Mineral Spirits – Stoddard Solvent 
Field Screening Results		
Multi-Rae VOCs Reading	122 ppm	5 ppm
pH	N/A	N/A
Lab Results		
Flashpoint	117 °F	> 200 °F
pH	N/A	N/A
VOCs	N/A	N/A

Notes:

See last page

Table 1 cont.
Sample Summary
Terry Company Site
Dayton, Montgomery County, Ohio

Sample Designation	TCS-24, TCS-24D (Duplicate)	
Container Type	1 Liter metal	5-gallon plastic overpack
Matrix	Liquid	Liquid
Label Information	Vulkem Primer 17 	Re-containerized sample TCS-24 and TCS-24D 
Field Screening Results		
Multi-Rae VOCs Reading	440 ppm	440 ppm
pH	N/A	N/A
Lab Results		
Flashpoint	96 °F	101 °F
pH	N/A	N/A
VOCs	N/A	N/A

Notes:

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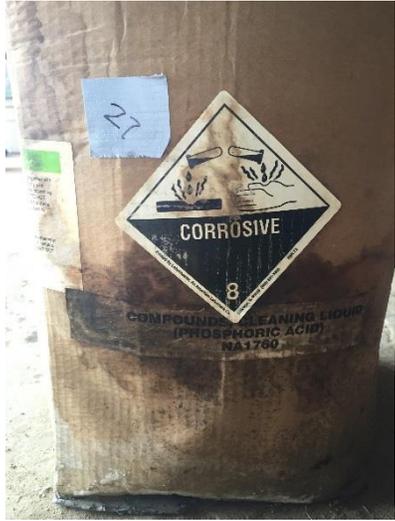
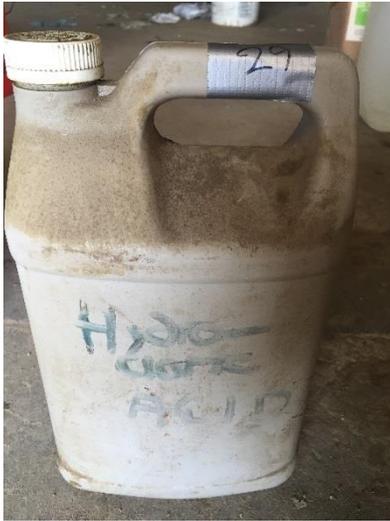
**Table 1 cont.
Sample Summary
Terry Company Site
Dayton, Montgomery County, Ohio**

Sample Designation	TCS-25	TCS-27
Container Type	5-gallon plastic	5-gallon plastic
Matrix	Liquid	Liquid
Label Information	Mineral Spirits – Stoddard Solvent 	Special Truck & Trailer Wash – Corrosive 
Field Screening Results		
Multi-Rae VOCs Reading	13 ppm	N/A
pH	N/A	1 SU
Lab Results		
Flashpoint	> 200 °F	N/A
pH	N/A	1.4 SU
VOCs	N/A	N/A

Notes:

See last page

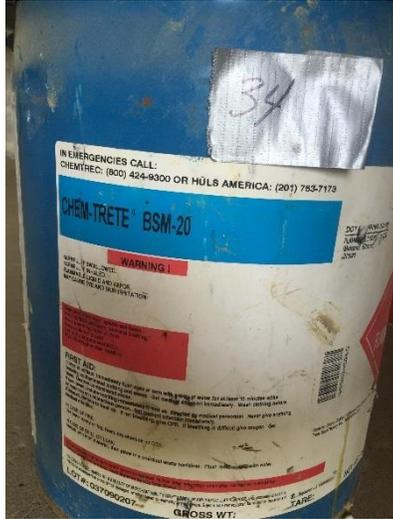
**Table 1 cont.
Sample Summary
Terry Company Site
Dayton, Montgomery County, Ohio**

Sample Designation	TCS-27D	TCS-29
Container Type	5-gallon plastic	1-gallon plastic
Matrix	Liquid	Liquid
Label Information	Special Truck & Trailer Wash – Corrosive 	Hydrochloric Acid (handwritten) 
Field Screening Results		
Multi-Rae VOCs Reading	N/A	N/A
pH	1 SU	<2 SU
Lab Results		
Flashpoint	N/A	145 °F
pH	1.4 SU	<1 SU
VOCs	N/A	N/A

Notes:

See last page

**Table 1 cont.
Sample Summary
Terry Company Site
Dayton, Montgomery County, Ohio**

Sample Designation	TCS-34	TCS-35
Container Type	5-gallon plastic	5-gallon plastic
Matrix	Liquid	Liquid
Label Information	CHEM-TRETE® BSM-20 – Methanol, Ethanol - Flammable	Special Truck & Trailer Wash – Corrosive
		
Field Screening Results		
Multi-Rae VOCs Reading	165 ppm	N/A
pH	N/A	1 SU
Lab Results		
Flashpoint	< 74 °F	1.6 SU
pH	N/A	N/A
VOCs	U	N/A

Notes:

See last page

**Table 1 cont.
Sample Summary
Terry Company Site
Dayton, Montgomery County, Ohio**

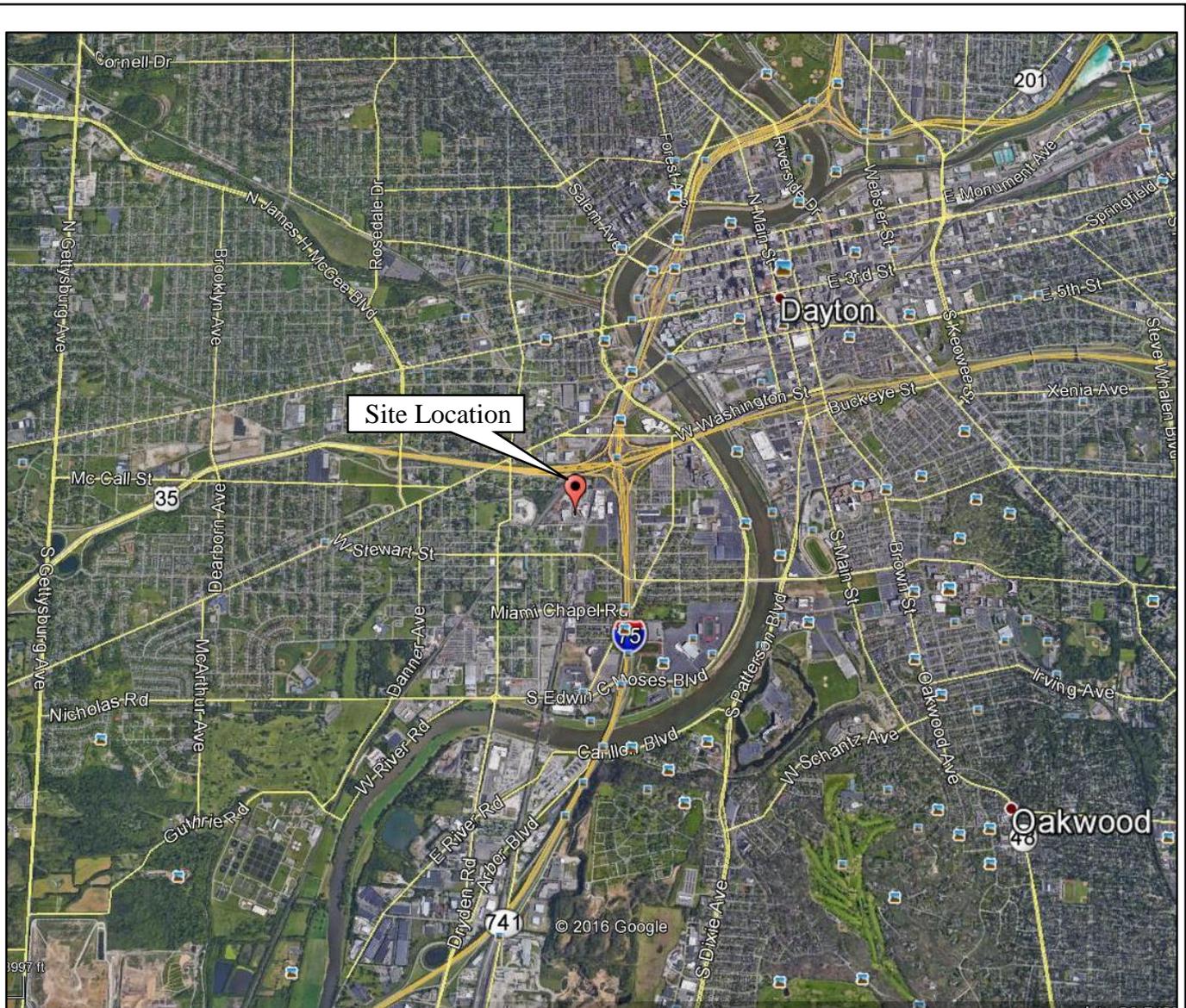
Sample Designation	TCS-36	TCS-37
Container Type	6,000-gallon Tanker	55-gallon metal drum
Matrix	Liquid	Liquid
Label Information	Unlabeled Tanker 	Unlabeled Drum 
Field Screening Results		
Multi-Rae VOCs Reading	N/A	440 ppm
pH	10 SU	N/A
Lab Results		
Flashpoint	N/A	96 °F
pH	9 SU	N/A
VOCs	N/A	U

Notes:

TCS Terry Company Site
VOCs Volatile Organic Compounds
ppm parts per million
SU standard units
N/A not analyzed
°F degrees Fahrenheit
U not detected
< less than
> greater than

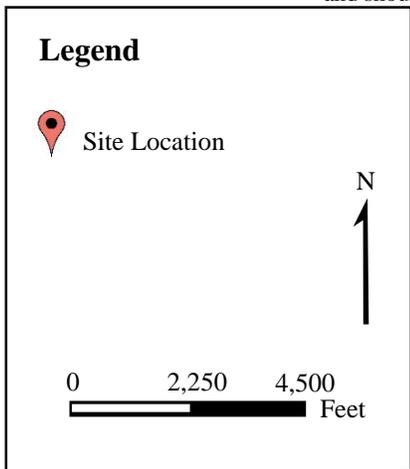
Samples were submitted to ALS Environmental laboratory for analysis under TDD No. S05-0001-16-06-001.

APPENDIX B
FIGURES



Aerial Source: Google Earth 2016

Disclaimer: This map is intended for visual orientation use only and should not be used for precise locational use.

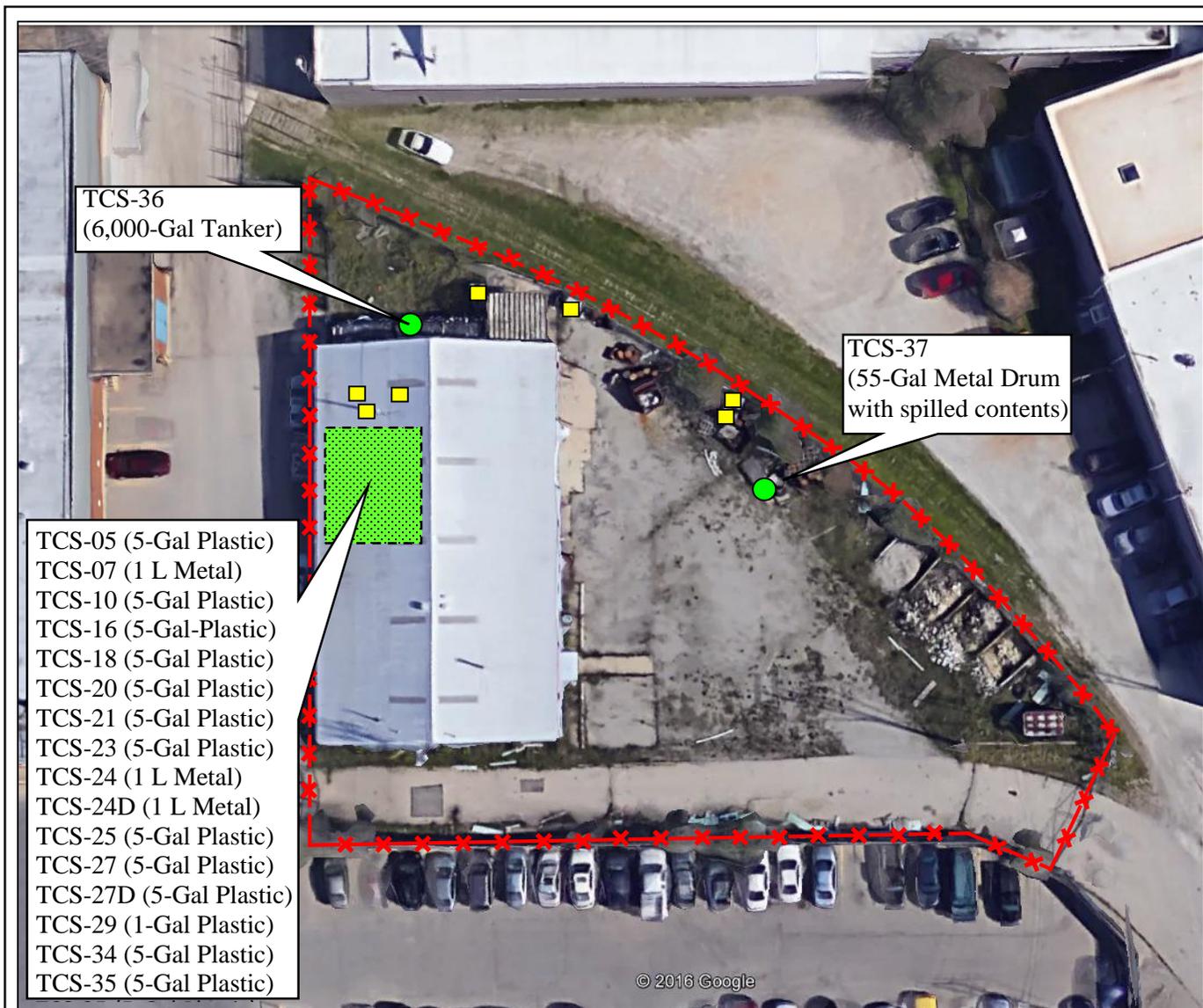



United States Environmental Protection Agency

TERRY COMPANY SITE - RS
DAYTON, MONTGOMERY COUNTY, OH
 TDD No. S05-0001-16-06-001

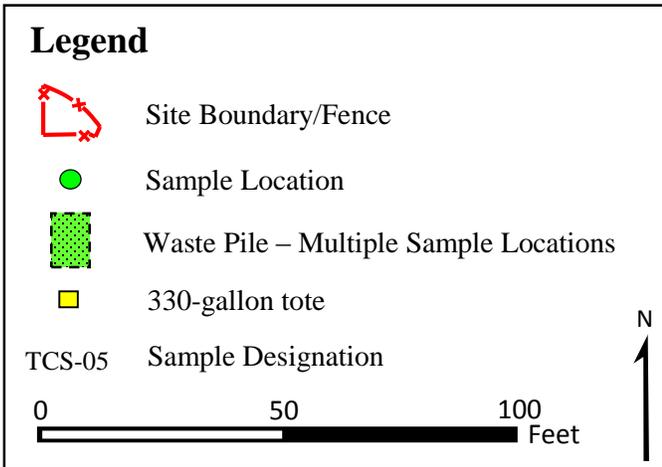
FIGURE 1
SITE LOCATION MAP





Aerial Source: Google Earth 2016

Disclaimer: This map is intended for visual orientation use only and should not be used for precise locational use.



United States Environmental Protection Agency

TERRY COMPANY SITE - RS
DAYTON, MONTGOMERY COUNTY, OH
 TDD No. S05-0001-16-06-001

FIGURE 2
SITE FEATURES AND SAMPLE LOCATION
MAP

SRS
 An Oneida ESC Group Company

APPENDIX C
PHOTOGRAPHIC LOG

Site: Terry Company Site - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-06-001
OSC: Steven Renninger

Date: July 21st, 2016
Photographer:
Katherine Cooper

Official Photograph No.1:
Terry Company Site facing north.



Site: Terry Company Site - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-06-001
OSC: Steven Renninger

Date: July 21, 2016
Photographer:
Katherine Cooper

Official Photograph No.2:
Several drums staged outside
building at the Site facing north.



Site: Terry Company Site - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-06-001
OSC: Steven Renninger

Date: July 21, 2016
Photographer: Katherine Cooper

Official Photograph No.3:
Drum spill outside of the building at the Site, spill material has hardened into a wax-like substance.



Site: Terry Company Site - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-06-001
OSC: Steven Renninger

Date: July 21, 2016
Photographer: Katherine Cooper

Official Photograph No.4:
Bulging drum staged near the north perimeter of the Site.



Site: Terry Company Site - RS

Contract: EP-S5-16-01

TDD: S05-0001-16-06-001

OSC: Steven Renninger

Date: July 21, 2016

Photographer:

Katherine Cooper

Official Photograph No.5:

6,000-gallon tanker and two totes near the north perimeter of the Site. Tanker and totes are approximately half full.



Site: Terry Company Site - RS

Contract: EP-S5-16-01 **TDD:**

S05-0001-16-06-001

OSC: Steven Renninger

Date: July 21, 2016

Photographer:

Katherine Cooper

Official Photograph No.6:

Spill inside the northern portion of the ground floor in the building at the Site. A floor drain which leads to the municipal sewer system is near the spill.



Site: Terry Company Site - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-06-001
OSC: Steven Renninger

Date: July 21, 2016
Photographer: Katherine Cooper

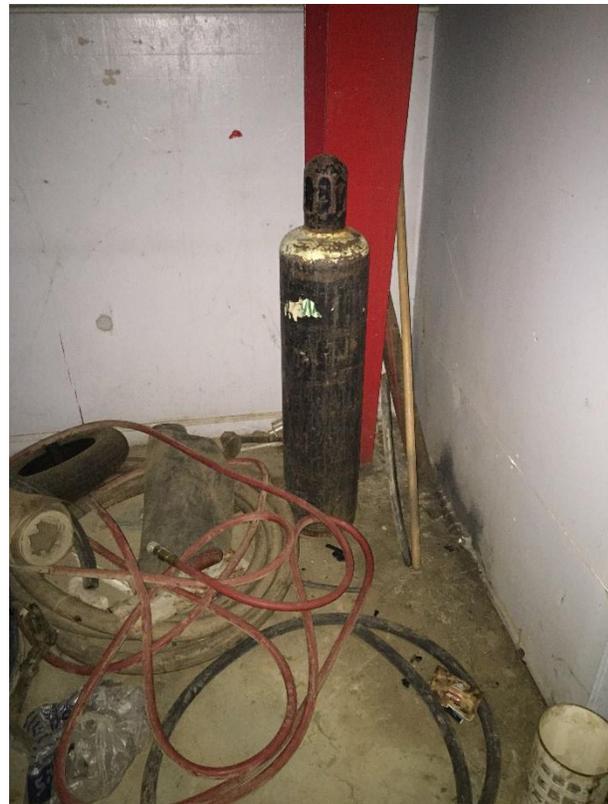
Official Photograph No.7:
Floor drain which leads to the municipal sewer system in the north portion of the building at the Site.



Site: Terry Company Site - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-06-001
OSC: Steven Renninger

Date: July 21, 2016
Photographer: Katherine Cooper

Official Photograph No.8:
One of the three compressed gas cylinders observed in the northern half of the building.



Site: Terry Company Site– RS
Contract: EP-S5-16-01
TDD: S05-0001-16-06-001
OSC: Steven Renninger

Date: July 21, 2016
Photographer: Katherine Cooper

Official Photograph No.9:
Tote outside building at the Site.



Site: Terry Company Site - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-06-001
OSC: Steven Renninger

Date: July 21, 2016
Photographer: Katherine Cooper

Official Photograph No. 10:
330-gallon tote at the north perimeter of the Site.



Site: Terry Company Site - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-06-001
OSC: Steven Renninger

Date: July 21, 2016
Photographer: Katherine Cooper

Official Photograph No.11:
6,000-gallon tanker located at the north perimeter of the Site.



Site: Terry Company Site - RS
Contract: EP-S5-16-01
TDD: S05-0001-16-06-001
OSC: Steven Renninger

Date: July 21, 2016
Photographer: Katherine Cooper

Official Photograph No.12:
Well ventilated staging area for containers to be sampled near the building's garage door.



Site: Terry Company Site - RS

Contract: EP-S5-16-01

TDD: S05-0001-16-06-001

OSC: Steven Renninger

Date: July 21, 2016

Photographer:

Katherine Cooper

Official Photograph No.13:

During container inventory, several 55-gallon drums were observed with the "Barriseal-S" label shown to the right.



Site: Terry Company Site - RS

Contract: EP-S5-16-01

TDD: S05-0001-16-06-001

OSC: Steven Renninger

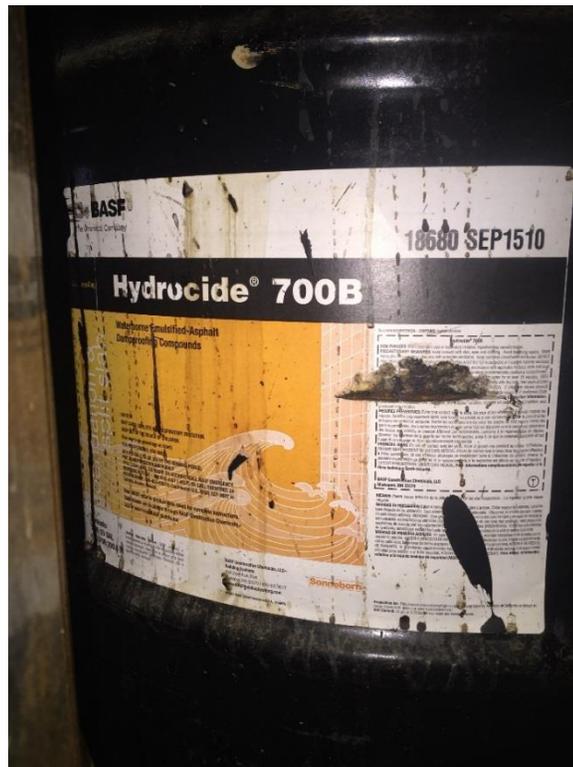
Date: July 21, 2016

Photographer: Katherine

Cooper

Official Photograph No. 14:

During container inventory, several 55-gallon drums were observed with the "Hydrocide 700B" label shown to the right.



APPENDIX D
VALIDATED ANALYTICAL DATA PACKAGE

MEMORANDUM

Date: August 9, 2016

To: Steven Renninger, OSC, US EPA Region 5
Raghu Nagam, Project Manager, SRS
Superfund Technical Assessment and Response Team (START) for Region 5

Prepared by: Richard Baldino, START QAO for Region 5

**QA/QC
Concurrence by:**

Subject: Data Validation for
Terry Company Site
Dayton, OH
Project TDD No. S05-0001-16-06-001

Laboratory: ALS Global, Holland, MI
Sample Delivery Group (SDG): 160713206071320

1.0 INTRODUCTION

The START QAO for Region 5 validated analytical data for 18 liquid samples for analysis of Volatile Organic Compounds (VOCs), Corrosivity, and Flashpoint. Samples were collected at the Terry Company Site located in Dayton, OH on July 21, 2016. The samples were analyzed under SDG 160713206 by ALS Global of Holland, MI using U.S. Environmental Protection Agency (U.S. EPA) methods SW-846 8260B, 1010A, 9040C.

Laboratory data were validated using guidelines set forth in the U.S. EPA Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (EPA-540-R-014-002, August 2014), NFG for Inorganic Data Review (EPA-540-R-013-001, August 2014), and applicable methodologies. The purpose of the chemical data quality evaluation process is to assess the usability of data for the project decision-making process.

Organic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- Surrogate recoveries
- Matrix spike and Matrix Spike Duplicate (MS/MSD) recovery results
- Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) recovery results

Inorganic data validation consisted of a review of the following QC audits:

- Chain of custody and sample receipt forms review
- Sample preservation and holding time
- Blank results
- Duplicate Sample Results
- LCS recovery results
- MS/MSD recovery results

Section 2.0 of this memorandum discusses the results of organic data validation. Section 3.0 of this memorandum discusses the results of inorganic data validation. Section 4.0 presents an overall assessment of

the data. The attachment to this memorandum contains the laboratory reporting forms as well as START's handwritten data qualifications where warranted.

2.0 ORGANIC DATA VALIDATION RESULTS

The results of START's organic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted (see attachment):

- J – The analyte was detected. The reported concentration was considered estimated.
- U – The analyte was not detected.
- UJ – The analyte was not detected. The reporting limit was considered estimated.

After the START project staff received the data packages, they were inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

2.1 LIQUID SAMPLES BY METHOD 8260B

2.1.1 SAMPLE HANDLING

Chain of custody documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. Liquid samples were collected on July 21, 2016 and were received on ice by the laboratory on July 22, 2016. No discrepancies were noted.

2.1.2 SAMPLE PRESERVATION AND HOLDING TIME

VOC samples were analyzed within holding time criteria. No discrepancies were noted.

2.1.3 BLANK RESULTS

The purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory (or field) activities. A laboratory method blank sample (MBLK-89355-89355) was run with this SDG. No method blank detects were noted.

2.1.4 SURROGATE RECOVERIES

Laboratory performance on individual samples is established by means of fortifying each sample with surrogate compounds. Surrogate spike compounds included 1,2-Dichloroethane-d4, 4-Bromofluorobenzene, Dibromofluoromethane, and Toluene-d8. Surrogate recoveries were acceptable. No discrepancies were noted.

2.1.5 MS/MSD RECOVERY RESULTS

Data for MS/MSDs are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

MS/MSD samples were not requested for this SDG. No qualification was attempted based on missing MS/MSD audit results.

2.1.6 LCS/LCSD RECOVERY RESULTS

Data for the LCS/LCSD is generated to provide information on the accuracy of the analytical method and on the laboratory performance. The LCS/LCSD is fortified with Aroclor 1260 and analyzed with each batch of samples. The LCS/LCSD accuracy performance is measured by Percent Recovery (%R). LCS/LCSD recoveries were acceptable. No discrepancies were noted.

2.1.7 FIELD DUPLICATES

Data for field duplicates were collected and analyzed for chemical constituents to measure the cumulative uncertainty (i.e., precision) of the sample collection, splitting, handling, storage, preparation and analysis operations, as well as natural sample heterogeneity that is not eliminated through simple mixing in the field. Field duplicates are two samples prepared by mixing a volume of sample and splitting it into two separate sample containers that are labeled as individual field samples.

Field duplicate samples were not collected. No qualification was attempted based on missing field duplicate audit results.

2.1.8 GENERAL LABORATORY OBSERVATIONS

The laboratory noted that multiple samples were diluted due to high native VOC concentrations. The resulting reporting limits were elevated.

3.0 INORGANIC DATA VALIDATION RESULTS

The results of START's inorganic data validation are summarized below by QC audit reviewed. The data qualifiers listed below were applied to sample analytical results where warranted:

- J – The analyte was detected. The reported concentration was considered estimated.
- U – The analyte was not detected.
- UJ – The analyte was not detected. The reporting limit was considered estimated.

After the START project staff received the data packages, they were inventoried for completeness and then reviewed according to matrix-specific protocols and data quality objectives established for the project.

3.1 LIQUID SAMPLES BY METHOD SW-846 9040CC

3.1.1 SAMPLE HANDLING

Chain of custody documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. Liquid samples were collected on July 21, 2016 and were received on ice by the laboratory on July 22, 2016. No discrepancies were noted.

3.1.2 SAMPLE PRESERVATION AND HOLDING TIME

Samples were analyzed within the holding time criteria. No discrepancies were noted.

3.1.3 BLANK RESULTS

The assessment of blank analysis results is to determine the existence and magnitude of contamination resulting from laboratory and/or field activities. Laboratory method blank samples are not required for method SW9040C. No discrepancies were noted.

3.1.4 LCS RECOVERY RESULTS

The LCS serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. The LCS is fortified with each analyte of interest and analyzed with each batch of samples. The LCS accuracy performance is measured by %R.

LCS samples are not required for method SW9040C. No discrepancies were noted.

3.1.5 MS/MSD RECOVERY RESULTS

The spiked sample analysis is designed to provide information about the effect of each sample matrix on the sample preparation procedures and the measurement methodology. The MS/MSD accuracy performance is measured by %R.

MS/MSD audits are not required for method SW9040C. No discrepancies were noted.

3.1.6 FIELD DUPLICATES

Data for field duplicates were collected and analyzed for chemical constituents to measure the cumulative uncertainty (i.e., precision) of the sample collection, splitting, handling, storage, preparation and analysis operations, as well as natural sample heterogeneity that is not eliminated through simple mixing in the field. Field duplicates are two samples prepared by mixing a volume of sample and splitting it into two separate sample containers that are labeled as individual field samples.

Lab replicate RPDs were 5% or less. No discrepancies were noted.

3.1.7 GENERAL LABORATORY OBSERVATIONS

No laboratory observations were noted.

3.2 LIQUID SAMPLES BY METHOD SW-846 1010A

3.2.1 SAMPLE HANDLING

Chain of custody documentation and sample receipt forms were reviewed to ensure requested analyses were performed and that samples arrived at the laboratory intact. Liquid samples were collected on July 21, 2016 and were received on ice by the laboratory on July 22, 2016. No discrepancies were noted.

3.2.2 SAMPLE PRESERVATION AND HOLDING TIME

Samples were analyzed within the holding time criteria. No discrepancies were noted.

3.2.3 BLANK RESULTS

The assessment of blank analysis results is to determine the existence and magnitude of contamination resulting from laboratory and/or field activities. Laboratory method blank samples are not required for method SW1010A. No discrepancies were noted.

3.2.4 LCS RECOVERY RESULTS

The LCS serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. The LCS is fortified with each analyte of interest and analyzed with each batch of samples. The LCS accuracy performance is measured by %R.

LCS audits are not required for method SW1010A. No discrepancies were noted.

3.2.5 MS/MSD RECOVERY RESULTS

The spiked sample analysis is designed to provide information about the effect of each sample matrix on the sample preparation procedures and the measurement methodology. The MS/MSD accuracy performance is measured by %R.

MS/MSD audits are not required for method SW1010A. No discrepancies were noted.

3.2.6 FIELD DUPLICATES

Data for field duplicates were collected and analyzed for chemical constituents to measure the cumulative uncertainty (i.e., precision) of the sample collection, splitting, handling, storage, preparation and analysis operations, as well as natural sample heterogeneity that is not eliminated through simple mixing in the field.

Field duplicates are two samples prepared by mixing a volume of sample and splitting it into two separate sample containers that are labeled as individual field samples.

Lab replicate RPDs were 5% or less. No discrepancies were noted.

3.2.7 GENERAL LABORATORY OBSERVATIONS

No laboratory observations were noted.

4.0 OVERALL ASSESSMENT OF DATA

The analytical results meet the data quality objectives defined by the applicable method and validation guidance documentation. The analytical data is usable and acceptable as reported by the laboratory.

ATTACHMENT
SUMMARY OF VALIDATED ANALYTICAL RESULTS
AND
CHAIN-OF-CUSTODY

Client: Sustainment and Restoration Services, LLC
 Project: Terry Company Site (S05-0001-16-06-001)
 Work Order: 16071320

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
16071320-01	TCS-05	Liquid		7/21/2016 11:30	7/22/2016 09:30	<input type="checkbox"/>
16071320-02	TCS-07	Liquid		7/21/2016 11:35	7/22/2016 09:30	<input type="checkbox"/>
16071320-03	TCS-10	Liquid		7/21/2016 11:40	7/22/2016 09:30	<input type="checkbox"/>
16071320-04	TCS-16	Liquid		7/21/2016 11:45	7/22/2016 09:30	<input type="checkbox"/>
16071320-05	TCS-18	Liquid		7/21/2016 11:50	7/22/2016 09:30	<input type="checkbox"/>
16071320-06	TCS-20	Liquid		7/21/2016 11:55	7/22/2016 09:30	<input type="checkbox"/>
16071320-07	TCS-21	Liquid		7/21/2016 11:55	7/22/2016 09:30	<input type="checkbox"/>
16071320-08	TCS-23	Liquid		7/21/2016 12:00	7/22/2016 09:30	<input type="checkbox"/>
16071320-09	TCS-24D	Liquid		7/21/2016 12:05	7/22/2016 09:30	<input type="checkbox"/>
16071320-10	TCS-24	Liquid		7/21/2016 12:10	7/22/2016 09:30	<input type="checkbox"/>
16071320-11	TCS-25	Liquid		7/21/2016 12:15	7/22/2016 09:30	<input type="checkbox"/>
16071320-12	TCS-27D	Liquid		7/21/2016 12:20	7/22/2016 09:30	<input type="checkbox"/>
16071320-13	TCS-27	Liquid		7/21/2016 12:25	7/22/2016 09:30	<input type="checkbox"/>
16071320-14	TCS-29	Liquid		7/21/2016 12:30	7/22/2016 09:30	<input type="checkbox"/>
16071320-15	TCS-34	Liquid		7/21/2016 12:35	7/22/2016 09:30	<input type="checkbox"/>
16071320-16	TCS-35	Liquid		7/21/2016 12:40	7/22/2016 09:30	<input type="checkbox"/>
16071320-17	TCS-36	Liquid		7/21/2016 14:30	7/22/2016 09:30	<input type="checkbox"/>
16071320-18	TCS-37	Liquid		7/21/2016 15:00	7/22/2016 09:30	<input type="checkbox"/>

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Work Order: 16071320

Case Narrative

Batch 89355, Method VOC_8260_S, Samples 16071320-01B, -04B, -15A and -18B: The VOC samples ran at a dilution due to high concentrations of non-target analytes.

Batch R193396c, Method PH_9040_W, Sample 16071320-14A: Sample was analyzed outside of the holding time at the request of the client. Results should be considered estimated.

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
WorkOrder: 16071320

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
°F	Degrees Fahrenheit
µg/Kg-dry	Micrograms per Kilogram Dry Weight
s.u.	Standard Units

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-05
Collection Date: 7/21/2016 11:30 AM

Work Order: 16071320
Lab ID: 16071320-01
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B		Prep: SW5035 / 7/29/16		Analyst: AK
1,1-Dichloroethene	U		80,000	300,000	µg/Kg-dry	100	7/30/2016 13:54
1,2-Dichloroethane	U		82,000	300,000	µg/Kg-dry	100	7/30/2016 13:54
1,4-Dichlorobenzene	U		78,000	300,000	µg/Kg-dry	100	7/30/2016 13:54
2-Butanone	U		400,000	2,000,000	µg/Kg-dry	100	7/30/2016 13:54
Benzene	U		68,000	300,000	µg/Kg-dry	100	7/30/2016 13:54
Carbon tetrachloride	U		53,000	300,000	µg/Kg-dry	100	7/30/2016 13:54
Chlorobenzene	U		90,000	300,000	µg/Kg-dry	100	7/30/2016 13:54
Chloroform	U		100,000	300,000	µg/Kg-dry	100	7/30/2016 13:54
Tetrachloroethene	U		150,000	300,000	µg/Kg-dry	100	7/30/2016 13:54
Trichloroethene	U		80,000	300,000	µg/Kg-dry	100	7/30/2016 13:54
Vinyl chloride	U		95,000	300,000	µg/Kg-dry	100	7/30/2016 13:54
Surr: 1,2-Dichloroethane-d4	105			70-130	%REC	100	7/30/2016 13:54
Surr: 4-Bromofluorobenzene	91.4			70-130	%REC	100	7/30/2016 13:54
Surr: Dibromofluoromethane	99.0			70-130	%REC	100	7/30/2016 13:54
Surr: Toluene-d8	103			70-130	%REC	100	7/30/2016 13:54
FLASHPOINT/IGNITABILITY ANALYSIS			Method: SW1010A				Analyst: STP
Flashpoint/Ignitability	<66		0		°F	1	7/26/2016 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-07
Collection Date: 7/21/2016 11:35 AM

Work Order: 16071320
Lab ID: 16071320-02
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
FLASHPOINT/IGNITABILITY ANALYSIS							Analyst: STP
Flashpoint/Ignitability	85.0		0		°F	1	7/26/2016 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-10
Collection Date: 7/21/2016 11:40 AM

Work Order: 16071320
Lab ID: 16071320-03
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
FLASHPOINT/IGNITABILITY ANALYSIS							Analyst: STP
Flashpoint/Ignitability	<70		0		°F	1	7/26/2016 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-16
Collection Date: 7/21/2016 11:45 AM

Work Order: 16071320
Lab ID: 16071320-04
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B		Prep: SW5035 / 7/29/16		Analyst: AK
1,1-Dichloroethene	U		80,000	300,000	µg/Kg-dry	100	7/30/2016 14:19
1,2-Dichloroethane	U		82,000	300,000	µg/Kg-dry	100	7/30/2016 14:19
1,4-Dichlorobenzene	U		78,000	300,000	µg/Kg-dry	100	7/30/2016 14:19
2-Butanone	U		400,000	2,000,000	µg/Kg-dry	100	7/30/2016 14:19
Benzene	U		68,000	300,000	µg/Kg-dry	100	7/30/2016 14:19
Carbon tetrachloride	U		53,000	300,000	µg/Kg-dry	100	7/30/2016 14:19
Chlorobenzene	U		90,000	300,000	µg/Kg-dry	100	7/30/2016 14:19
Chloroform	U		100,000	300,000	µg/Kg-dry	100	7/30/2016 14:19
Tetrachloroethene	U		150,000	300,000	µg/Kg-dry	100	7/30/2016 14:19
Trichloroethene	U		80,000	300,000	µg/Kg-dry	100	7/30/2016 14:19
Vinyl chloride	U		95,000	300,000	µg/Kg-dry	100	7/30/2016 14:19
Surr: 1,2-Dichloroethane-d4	104			70-130	%REC	100	7/30/2016 14:19
Surr: 4-Bromofluorobenzene	95.2			70-130	%REC	100	7/30/2016 14:19
Surr: Dibromofluoromethane	100			70-130	%REC	100	7/30/2016 14:19
Surr: Toluene-d8	102			70-130	%REC	100	7/30/2016 14:19
FLASHPOINT/IGNITABILITY ANALYSIS			Method: SW1010A				Analyst: STP
Flashpoint/Ignitability	<70		0		°F	1	7/26/2016 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-18
Collection Date: 7/21/2016 11:50 AM

Work Order: 16071320
Lab ID: 16071320-05
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
FLASHPOINT/IGNITABILITY ANALYSIS							Analyst: STP
Flashpoint/Ignitability	<70		0		°F	1	7/26/2016 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-20
Collection Date: 7/21/2016 11:55 AM

Work Order: 16071320
Lab ID: 16071320-06
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
FLASHPOINT/IGNITABILITY ANALYSIS							Analyst: STP
Flashpoint/Ignitability	105		0		°F	1	7/27/2016 12:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-21
Collection Date: 7/21/2016 11:55 AM

Work Order: 16071320
Lab ID: 16071320-07
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
FLASHPOINT/IGNITABILITY ANALYSIS							Analyst: STP
Flashpoint/Ignitability	117		0		°F	1	7/27/2016 12:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-23
Collection Date: 7/21/2016 12:00 PM

Work Order: 16071320
Lab ID: 16071320-08
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
FLASHPOINT/IGNITABILITY ANALYSIS							Analyst: STP
Flashpoint/Ignitability	>200		0		°F	1	7/28/2016 08:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-24D
Collection Date: 7/21/2016 12:05 PM

Work Order: 16071320
Lab ID: 16071320-09
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
FLASHPOINT/IGNITABILITY ANALYSIS							Analyst: STP
Flashpoint/Ignitability	101		0		°F	1	7/28/2016 08:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-24
Collection Date: 7/21/2016 12:10 PM

Work Order: 16071320
Lab ID: 16071320-10
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
FLASHPOINT/IGNITABILITY ANALYSIS							Analyst: EE
Flashpoint/Ignitability	96.0		0		°F	1	8/2/2016 10:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-25
Collection Date: 7/21/2016 12:15 PM

Work Order: 16071320
Lab ID: 16071320-11
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
FLASHPOINT/IGNITABILITY ANALYSIS							Analyst: EE
Flashpoint/Ignitability	>200		0		°F	1	8/2/2016 10:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-27D
Collection Date: 7/21/2016 12:20 PM

Work Order: 16071320
Lab ID: 16071320-12
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH (LABORATORY)							
pH (laboratory)	1.4		0		s.u.	1	7/26/2016 12:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-27
Collection Date: 7/21/2016 12:25 PM

Work Order: 16071320
Lab ID: 16071320-13
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH (LABORATORY)							
pH (laboratory)	1.4		0		s.u.	1	7/26/2016 12:40

Method: SW9040C

Analyst: ED
7/26/2016 12:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-29
Collection Date: 7/21/2016 12:30 PM

Work Order: 16071320
Lab ID: 16071320-14
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
FLASHPOINT/IGNITABILITY ANALYSIS							Analyst: EE
Flashpoint/Ignitability	145		0		°F	1	8/2/2016 10:08
PH (LABORATORY)							Analyst: ED
pH (laboratory)	<1	H	0		s.u.	1	8/9/2016 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-34
Collection Date: 7/21/2016 12:35 PM

Work Order: 16071320
Lab ID: 16071320-15
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B		Prep: SW5035 / 7/29/16		Analyst: AK
1,1-Dichloroethene	U		21,000	79,000	µg/Kg-dry	100	7/30/2016 14:45
1,2-Dichloroethane	U		21,000	79,000	µg/Kg-dry	100	7/30/2016 14:45
1,4-Dichlorobenzene	U		21,000	79,000	µg/Kg-dry	100	7/30/2016 14:45
2-Butanone	U		110,000	530,000	µg/Kg-dry	100	7/30/2016 14:45
Benzene	U		18,000	79,000	µg/Kg-dry	100	7/30/2016 14:45
Carbon tetrachloride	U		14,000	79,000	µg/Kg-dry	100	7/30/2016 14:45
Chlorobenzene	U		24,000	79,000	µg/Kg-dry	100	7/30/2016 14:45
Chloroform	U		27,000	79,000	µg/Kg-dry	100	7/30/2016 14:45
Tetrachloroethene	U		39,000	79,000	µg/Kg-dry	100	7/30/2016 14:45
Trichloroethene	U		21,000	79,000	µg/Kg-dry	100	7/30/2016 14:45
Vinyl chloride	U		25,000	79,000	µg/Kg-dry	100	7/30/2016 14:45
Surr: 1,2-Dichloroethane-d4		107		70-130	%REC	100	7/30/2016 14:45
Surr: 4-Bromofluorobenzene		91.1		70-130	%REC	100	7/30/2016 14:45
Surr: Dibromofluoromethane		101		70-130	%REC	100	7/30/2016 14:45
Surr: Toluene-d8		103		70-130	%REC	100	7/30/2016 14:45
FLASHPOINT/IGNITABILITY ANALYSIS			Method: SW1010A				Analyst: EE
Flashpoint/Ignitability	<74		0		°F	1	8/2/2016 10:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-35
Collection Date: 7/21/2016 12:40 PM

Work Order: 16071320
Lab ID: 16071320-16
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH (LABORATORY)							
pH (laboratory)	1.6		0		s.u.	1	7/26/2016 12:40

Method: SW9040C

Analyst: ED
7/26/2016 12:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-36
Collection Date: 7/21/2016 02:30 PM

Work Order: 16071320
Lab ID: 16071320-17
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH (LABORATORY)							
pH (laboratory)	9.0		0		s.u.	1	7/26/2016 12:40

Method: SW9040C

Analyst: ED
7/26/2016 12:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Aug-16

Client: Sustainment and Restoration Services, LLC
Project: Terry Company Site (S05-0001-16-06-001)
Sample ID: TCS-37
Collection Date: 7/21/2016 03:00 PM

Work Order: 16071320
Lab ID: 16071320-18
Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B		Prep: SW5035 / 7/29/16		Analyst: AK
1,1-Dichloroethene	U		80,000	300,000	µg/Kg-dry	100	7/30/2016 15:11
1,2-Dichloroethane	U		82,000	300,000	µg/Kg-dry	100	7/30/2016 15:11
1,4-Dichlorobenzene	U		78,000	300,000	µg/Kg-dry	100	7/30/2016 15:11
2-Butanone	U		400,000	2,000,000	µg/Kg-dry	100	7/30/2016 15:11
Benzene	U		68,000	300,000	µg/Kg-dry	100	7/30/2016 15:11
Carbon tetrachloride	U		53,000	300,000	µg/Kg-dry	100	7/30/2016 15:11
Chlorobenzene	U		90,000	300,000	µg/Kg-dry	100	7/30/2016 15:11
Chloroform	U		100,000	300,000	µg/Kg-dry	100	7/30/2016 15:11
Tetrachloroethene	U		150,000	300,000	µg/Kg-dry	100	7/30/2016 15:11
Trichloroethene	U		80,000	300,000	µg/Kg-dry	100	7/30/2016 15:11
Vinyl chloride	U		95,000	300,000	µg/Kg-dry	100	7/30/2016 15:11
Surr: 1,2-Dichloroethane-d4	105			70-130	%REC	100	7/30/2016 15:11
Surr: 4-Bromofluorobenzene	95.7			70-130	%REC	100	7/30/2016 15:11
Surr: Dibromofluoromethane	97.8			70-130	%REC	100	7/30/2016 15:11
Surr: Toluene-d8	99.0			70-130	%REC	100	7/30/2016 15:11
FLASHPOINT/IGNITABILITY ANALYSIS			Method: SW1010A				Analyst: EE
Flashpoint/Ignitability	96.0		0		°F	1	8/2/2016 10:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Sustainment and Restoration Services, LLC
Work Order: 16071320
Project: Terry Company Site (S05-0001-16-06-001)

QC BATCH REPORT

Batch ID: **89355** Instrument ID **VMS9** Method: **SW8260B**

MBLK		Sample ID: MBLK-89355-89355			Units: µg/Kg-dry			Analysis Date: 7/29/2016 12:29 PM		
Client ID:		Run ID: VMS9_160729A			SeqNo: 3952837		Prep Date: 7/29/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	U	30								
1,2-Dichloroethane	U	30								
1,4-Dichlorobenzene	U	30								
2-Butanone	U	200								
Benzene	U	30								
Carbon tetrachloride	U	30								
Chlorobenzene	U	30								
Chloroform	U	30								
Tetrachloroethene	U	30								
Trichloroethene	U	30								
Vinyl chloride	U	30								
<i>Surr: 1,2-Dichloroethane-d4</i>	982.5	0	1000	0	98.2	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	953	0	1000	0	95.3	70-130	0			
<i>Surr: Dibromofluoromethane</i>	937.5	0	1000	0	93.8	70-130	0			
<i>Surr: Toluene-d8</i>	966.5	0	1000	0	96.6	70-130	0			

LCS		Sample ID: LCS-89355-89355			Units: µg/Kg-dry			Analysis Date: 7/29/2016 11:14 AM		
Client ID:		Run ID: VMS9_160729A			SeqNo: 3952836		Prep Date: 7/29/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	989	30	1000	0	98.9	65-135	0			
1,2-Dichloroethane	971	30	1000	0	97.1	70-135	0			
1,4-Dichlorobenzene	1067	30	1000	0	107	70-125	0			
2-Butanone	887	200	1000	0	88.7	30-160	0			
Benzene	1022	30	1000	0	102	75-125	0			
Carbon tetrachloride	1024	30	1000	0	102	65-135	0			
Chlorobenzene	1098	30	1000	0	110	75-125	0			
Chloroform	980.5	30	1000	0	98	70-125	0			
Tetrachloroethene	1268	30	1000	0	127	64-140	0			
Trichloroethene	1050	30	1000	0	105	75-125	0			
Vinyl chloride	892	30	1000	0	89.2	60-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	961	0	1000	0	96.1	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1017	0	1000	0	102	70-130	0			
<i>Surr: Dibromofluoromethane</i>	990	0	1000	0	99	70-130	0			
<i>Surr: Toluene-d8</i>	1034	0	1000	0	103	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Sustainment and Restoration Services, LLC
 Work Order: 16071320
 Project: Terry Company Site (S05-0001-16-06-001)

QC BATCH REPORT

Batch ID: **89355** Instrument ID **VMS9** Method: **SW8260B**

MS		Sample ID: 16071630-24A MS				Units: µg/Kg-dry		Analysis Date: 7/30/2016 07:52 AM		
Client ID:		Run ID: VMS9_160729B			SeqNo: 3953068		Prep Date: 7/29/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1050	30	1000	0	105	65-135	0			
1,2-Dichloroethane	1012	30	1000	0	101	70-135	0			
1,4-Dichlorobenzene	1051	30	1000	0	105	70-125	0			
2-Butanone	1784	200	1000	27.89	176	30-160	0			S
Benzene	1062	30	1000	0	106	75-125	0			
Carbon tetrachloride	1000	30	1000	0	100	65-135	0			
Chlorobenzene	1117	30	1000	0	112	75-125	0			
Chloroform	1011	30	1000	0	101	70-125	0			
Tetrachloroethene	2060	30	1000	0	206	64-140	0			S
Trichloroethene	1192	30	1000	0	119	75-125	0			
Vinyl chloride	958.5	30	1000	0	95.8	60-125	0			
Surr: 1,2-Dichloroethane-d4	970	0	1000	0	97	70-130	0			
Surr: 4-Bromofluorobenzene	1077	0	1000	0	108	70-130	0			
Surr: Dibromofluoromethane	942	0	1000	0	94.2	70-130	0			
Surr: Toluene-d8	994.5	0	1000	0	99.4	70-130	0			

MSD		Sample ID: 16071630-24A MSD				Units: µg/Kg-dry		Analysis Date: 7/30/2016 08:17 AM		
Client ID:		Run ID: VMS9_160729B			SeqNo: 3953069		Prep Date: 7/29/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1056	30	1000	0	106	65-135	1050	0.57	30	
1,2-Dichloroethane	997	30	1000	0	99.7	70-135	1012	1.54	30	
1,4-Dichlorobenzene	1074	30	1000	0	107	70-125	1051	2.12	30	
2-Butanone	1568	200	1000	27.89	154	30-160	1784	12.8	30	
Benzene	1058	30	1000	0	106	75-125	1062	0.378	30	
Carbon tetrachloride	987	30	1000	0	98.7	65-135	1000	1.31	30	
Chlorobenzene	1092	30	1000	0	109	75-125	1117	2.22	30	
Chloroform	1050	30	1000	0	105	70-125	1011	3.78	30	
Tetrachloroethene	1965	30	1000	0	196	64-140	2060	4.72	30	S
Trichloroethene	1094	30	1000	0	109	75-125	1192	8.53	30	
Vinyl chloride	917	30	1000	0	91.7	60-125	958.5	4.43	30	
Surr: 1,2-Dichloroethane-d4	975.5	0	1000	0	97.6	70-130	970	0.565	30	
Surr: 4-Bromofluorobenzene	1074	0	1000	0	107	70-130	1077	0.326	30	
Surr: Dibromofluoromethane	957.5	0	1000	0	95.8	70-130	942	1.63	30	
Surr: Toluene-d8	999.5	0	1000	0	100	70-130	994.5	0.502	30	

The following samples were analyzed in this batch:

16071320-01B	16071320-04B	16071320-15A
16071320-18B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Sustainment and Restoration Services, LLC
Work Order: 16071320
Project: Terry Company Site (S05-0001-16-06-001)

QC BATCH REPORT

Batch ID: **R192373** Instrument ID **WETCHEM** Method: **SW1010A**

LCS	Sample ID: LCS-R192373-R192373		Units: °F		Analysis Date: 7/26/2016 10:35 AM					
Client ID:	Run ID: WETCHEM_160726I		SeqNo: 3944150		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Flashpoint/Ignitability 83 0 81 0 102 97-103 0

DUP	Sample ID: 16071320-01A DUP		Units: °F		Analysis Date: 7/26/2016 10:35 AM					
Client ID: TCS-05	Run ID: WETCHEM_160726I		SeqNo: 3944152		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Flashpoint/Ignitability U 0 0 0 0 0-0 0 0 10

DUP	Sample ID: 16071320-02A DUP		Units: °F		Analysis Date: 7/26/2016 10:35 AM					
Client ID: TCS-07	Run ID: WETCHEM_160726I		SeqNo: 3944154		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Flashpoint/Ignitability 83 0 0 0 0 0-0 85 2.38 10

DUP	Sample ID: 16071320-03A DUP		Units: °F		Analysis Date: 7/26/2016 10:35 AM					
Client ID: TCS-10	Run ID: WETCHEM_160726I		SeqNo: 3944156		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Flashpoint/Ignitability U 0 0 0 0 0-0 0 0 10

DUP	Sample ID: 16071320-04A DUP		Units: °F		Analysis Date: 7/26/2016 10:35 AM					
Client ID: TCS-16	Run ID: WETCHEM_160726I		SeqNo: 3944158		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Flashpoint/Ignitability U 0 0 0 0 0-0 0 0 10

DUP	Sample ID: 16071320-05A DUP		Units: °F		Analysis Date: 7/26/2016 10:35 AM					
Client ID: TCS-18	Run ID: WETCHEM_160726I		SeqNo: 3944160		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Flashpoint/Ignitability U 0 0 0 0 0-0 0 0 10

The following samples were analyzed in this batch:

16071320-01A	16071320-02A	16071320-03A
16071320-04A	16071320-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Sustainment and Restoration Services, LLC
Work Order: 16071320
Project: Terry Company Site (S05-0001-16-06-001)

QC BATCH REPORT

Batch ID: **R192400** Instrument ID **WETCHEM** Method: **SW9040C**

LCS		Sample ID: WLCSW1-160726-R192400				Units: s.u.		Analysis Date: 7/26/2016 12:40 PM		
Client ID:		Run ID: WETCHEM_1607260		SeqNo: 3944629		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	3.98	0	4	0	99.5	90-110	0			

DUP		Sample ID: 16071166-01A DUP				Units: s.u.		Analysis Date: 7/26/2016 12:40 PM		
Client ID:		Run ID: WETCHEM_1607260		SeqNo: 3944631		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	U	0	0	0	0		0	0	20	

The following samples were analyzed in this batch:

16071320-12A	16071320-13A	16071320-16A
16071320-17A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Sustainment and Restoration Services, LLC
Work Order: 16071320
Project: Terry Company Site (S05-0001-16-06-001)

QC BATCH REPORT

Batch ID: **R192500** Instrument ID **WETCHEM** Method: **SW1010A**

LCS		Sample ID: LCS-R192500-R192500				Units: °F		Analysis Date: 7/27/2016 12:00 PM		
Client ID:		Run ID: WETCHEM_160727P		SeqNo: 3946964		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	83	0	81	0	102	97-103	0			

DUP		Sample ID: 16071320-06A DUP				Units: °F		Analysis Date: 7/27/2016 12:00 PM		
Client ID: TCS-20		Run ID: WETCHEM_160727P		SeqNo: 3946966		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	105	0	0	0	0	0-0	105	0	10	

DUP		Sample ID: 16071320-07A DUP				Units: °F		Analysis Date: 7/27/2016 12:00 PM		
Client ID: TCS-21		Run ID: WETCHEM_160727P		SeqNo: 3946968		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	117	0	0	0	0	0-0	117	0	10	

The following samples were analyzed in this batch:

16071320-06A	16071320-07A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Sustainment and Restoration Services, LLC
Work Order: 16071320
Project: Terry Company Site (S05-0001-16-06-001)

QC BATCH REPORT

Batch ID: **R192575** Instrument ID **WETCHEM** Method: **SW1010A**

LCS		Sample ID: LCS-R192575-R192575				Units: °F		Analysis Date: 7/28/2016 08:10 AM		
Client ID:		Run ID: WETCHEM_160728B		SeqNo: 3949669		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	83	0	81	0	102	97-103	0			

DUP		Sample ID: 16071320-09A DUP				Units: °F		Analysis Date: 7/28/2016 08:10 AM		
Client ID: TCS-24D		Run ID: WETCHEM_160728B		SeqNo: 3949672		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	101	0	0	0	0	0-0	101	0	10	

DUP		Sample ID: 16071582-01A DUP				Units: °F		Analysis Date: 7/28/2016 08:10 AM		
Client ID:		Run ID: WETCHEM_160728B		SeqNo: 3949675		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	145	0	0	0	0	0-0	141	2.8	10	

The following samples were analyzed in this batch:

16071320-08A	16071320-09A
--------------	--------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Sustainment and Restoration Services, LLC
Work Order: 16071320
Project: Terry Company Site (S05-0001-16-06-001)

QC BATCH REPORT

Batch ID: **R192974** Instrument ID **WETCHEM** Method: **SW1010A**

LCS		Sample ID: WLCSW1-080216-R192974				Units: °F		Analysis Date: 8/2/2016 10:08 AM		
Client ID:		Run ID: WETCHEM_160802Q		SeqNo: 3959536		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	83	0	81	0	102	97-103	0			

DUP		Sample ID: 16071320-10A DUP				Units: °F		Analysis Date: 8/2/2016 10:08 AM		
Client ID: TCS-24		Run ID: WETCHEM_160802Q		SeqNo: 3959538		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	99	0	0	0	0	0-0	96	3.08	10	

The following samples were analyzed in this batch:

16071320-10A	16071320-11A	16071320-14A
16071320-15A	16071320-18A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Sustainment and Restoration Services, LLC

Work Order: 16071320

Project: Terry Company Site (S05-0001-16-06-001)

QC BATCH REPORT

Batch ID: **R193396c** Instrument ID **WETCHEM** Method: **SW9040C**

LCS	Sample ID: WLCSW1-160809-R193396c		Units: s.u.		Analysis Date: 8/9/2016 03:05 PM					
Client ID:	Run ID: WETCHEM_160809N		SeqNo: 3969551		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	4.01	0	4	0	100	90-110	0			

The following samples were analyzed in this batch:

16071320-14A



Environmental

Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 2

COC ID: 35942

Houston, TX
+1 281 530 5636

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

ALS Project Manager:

ALS Work Order #: 16071320

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	Terry Company Site	A	Corrosivity											
Work Order		Project Number	S05-0001-16-06-001	B	Ignitability											
Company Name	Sustainment and Restoration Services, LL	Bill To Company	Sustainment and Restoration Services,	C	VOCs											
Send Report To	Katherine Cooper	Invoice Attn	Accounts Payable	D												
Address	79 West Monroe Suite 1119	Address	79 West Monroe Suite 1119	E												
City/State/Zip	Chicago, IL 60603	City/State/Zip	Chicago, IL 60603	F												
Phone	(312) 220-7171	Phone	(312) 220-7171	G												
Fax	(312) 220-7172	Fax	(312) 220-7172	H												
e-Mail Address		e-Mail Address		I												
				J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TCS-05	7/21/16	1130	Liquid	None	2		X	X								
2	TCS-07		1135					X									
3	TCS-10		1140					X									
4	TCS-16		1145					X	X								
5	TCS-18		1150					X									
6	TCS-20		1155					X									
7	TCS-21		1155					X									
8	TCS-23		1200					X									
9	TCS-24D		1205					X									
10	TCS-24		1210					X									

Sampler(s) Please Print & Sign Katherine Cooper <i>Katherine Cooper</i>		Shipment Method FedEx		Turnaround Time in Business Days (BD) <input checked="" type="checkbox"/> 4 BD <input type="checkbox"/> 5 BD <input type="checkbox"/> 8 BD <input type="checkbox"/> 2 BD <input type="checkbox"/> 1 BD				Results Due Date:			
Relinquished by: <i>Katherine Cooper</i>	Date: 7/21/16	Time: 1141	Received by: <i>FedEx</i>		Notes:						
Relinquished by: FedEx	Date: 7/22/16	Time: 0930	Received by (Laboratory): <i>[Signature]</i>		Cooler ID	Cooler Temp 3.4°C	QC Package: (Check One Box Below)				
Logged by (Laboratory): <i>Ken</i>	Date: 7/22/16	Time: 1530	Checked by (Laboratory): <i>[Signature]</i>		<input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other _____						
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other B-4°C 9-5035											

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



Environmental

Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 35944

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

ALS Project Manager:

ALS Work Order #: 16071320

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	<u>Terny Company Site</u>	A	Corrosivity										
Work Order		Project Number	<u>S05-0001-16-06-001</u>	B	Ignitability										
Company Name	<u>Sustainment and Restoration Services, LL</u>	Bill To Company	<u>Sustainment and Restoration Services,</u>	C	VOCs										
Send Report To	<u>Katherine Cooper</u>	Invoice Attn	<u>Accounts Payable</u>	D											
Address	<u>79 West Monroe Suite 1119</u>	Address	<u>79 West Monroe Suite 1119</u>	E											
City/State/Zip	<u>Chicago, IL 60603</u>	City/State/Zip	<u>Chicago, IL 60603</u>	F											
Phone	<u>(312) 220-7171</u>	Phone	<u>(312) 220-7171</u>	G											
Fax	<u>(312) 220-7172</u>	Fax	<u>(312) 220-7172</u>	H											
e-Mail Address		e-Mail Address		I											
				J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
11	<u>TCS-25</u>	<u>7/21/16</u>	<u>1215</u>	<u>Liquid</u>	<u>None</u>	<u>2</u>		X									
12	<u>TCS-27D</u>		<u>1220</u>				X	X									
13	<u>TCS-27</u>		<u>1225</u>				X	X									
14	<u>TCS-29</u>		<u>1230</u>					X									
15	<u>TCS-34</u>		<u>1235</u>				X										
16	<u>TCS-35</u>		<u>1240</u>					X	X								
17	<u>TCS-36</u>		<u>1430</u>				X										
18	<u>TCS-37</u>		<u>1500</u>				X	X	X								
19																	
20																	

Sampler(s) Please Print & Sign Katherine Cooper Katherine Cooper

Shipment Method Fed Ex Turnaround Time in Business Days (BD) 10 BD 5 BD 3 BD 2 BD 1 BD

Results Due Date:

Relinquished by: Katherine Cooper Date: 7/21/16 Time: 1641 Received by: Fed Ex Notes:

Relinquished by: Fed Ex Date: 7/22/16 Time: 0930 Received by (Laboratory):

Logged by (Laboratory): Ker Date: 7/22/16 Time: 1530 Checked by (Laboratory):

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₅ 6-NaHSO₄ 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below)

Level II Std QC TRRP Checklist

Level III Std QC/Raw Data TRRP Level IV

Level IV SW846/CLP

Other

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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ORIGIN ID: CHIA (312) 220-7171
SRS LLC
SRS, LLC
70 W. MONROE ST.
STE 1119
CHICAGO, IL 60603
UNITED STATES US

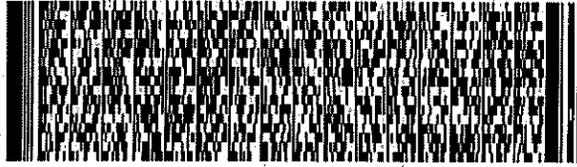
SHIP DATE: 21 JUL 16
ACTWGT: 38.75 LB
CAD: 109155332/NET3780
DIMS: 24x13x13 IN

BILL SENDER

TO JEFF GLASER
ALS ENVIRONMENTAL
3352 128TH AVE

HOLLAND MI 49424
(818) 399-6070 REF
MW
PO DEPT.

544.JT503074EB



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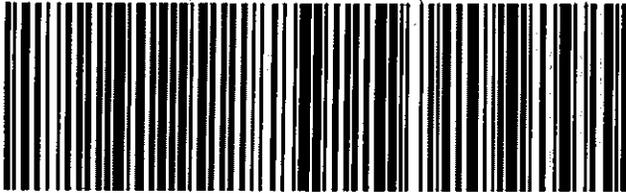
1 of 2

TRK# 7768 1588 9038
0201
MASTER

FRI - 22 JUL 10:30A
PRIORITY OVERNIGHT

NA HLMA

49424
MI-US GRR

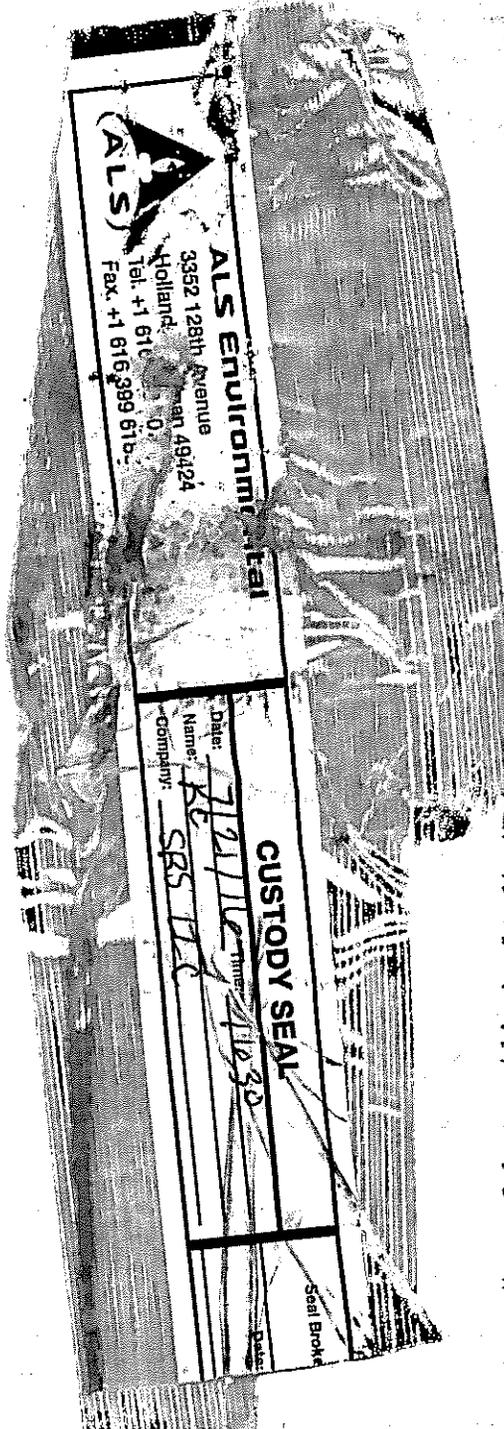


After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Sample Receipt Checklist

Client Name: **SRS**

Date/Time Received: **22-Jul-16 09:30**

Work Order: **16071320**

Received by: **KRW**

Checklist completed by Keith Wierenga 22-Jul-16
eSignature Date

Reviewed by: Chad Whelton 22-Jul-16
eSignature Date

Matrices: Liquid

Carrier name: FedEx

- 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? 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/Temp Blank temperature in compliance? Yes No
- Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: