



Robert Kondreck
Project Manager

February 2, 2016

Ms. Kathy Halbur
On-Scene Coordinator
U.S. Environmental Protection Agency Region 5
2984 Shawano Avenue
Green Bay, Wisconsin 54313

Subject: Final Letter Report – Spencer Drum Site
EPA Contract No. EP-S5-13-01
Technical Direction Document No. S05-0001-1510-011
Document Tracking No. 0538

Dear Ms. Halbur:

Tetra Tech Inc. (Tetra Tech) is submitting the Final Letter Report for the Spencer Drum Site. This Final Letter Report summarizes removal action activities conducted from November 30 through December 3, 2015 and January 4 through 6, 2016. If you have any questions regarding this report, please call me at (312) 201-7479.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert Kondreck'.

Robert Kondreck
Project Manager

Enclosure

cc: Kevin Scott, Tetra Tech Program Manager
TDD File

**FINAL LETTER REPORT
SPENCER DRUM SITE
SPENCER, MARATHON COUNTY, WISCONSIN**

Prepared for

U.S. Environmental Protection Agency
Emergency Response Branch
Region 5
77 West Jackson Blvd. (SE-5J)
Chicago, Illinois USA 60604

Submitted by

Tetra Tech Inc.
1 South Wacker Drive, 37th Floor
Chicago, Illinois 60606

EPA Contract No. EP-S5-13-01

Technical Direction Document No. S05-0001-1510-011
Document Tracking No. 0538

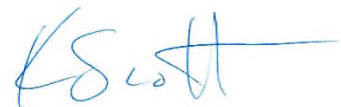
February 2, 2016

Prepared by



Robert Kondreck
Project Manager

Approved by



Kevin Scott
START QC Reviewer

CONTENTS

| <u>Section</u> | <u>Page</u> |
|--|-------------|
| 1.0 INTRODUCTION | 1 |
| 2.0 SITE BACKGROUND | 2 |
| 2.1 SITE LOCATION | 2 |
| 2.2 SITE DESCRIPTION | 2 |
| 3.0 REMOVAL ACTION ACTIVITIES | 4 |
| 3.1 UNKNOWN DRUM SAMPLING AND CHARACTERIZATION | 4 |
| 3.2 WASTE CONSOLIDATION ACTIVITIES | 5 |
| 3.3 DRUM REMOVAL ACTIVITIES | 6 |
| 3.4 AIR MONITORING AND SAMPLING | 6 |
| 3.5 COMMUNITY INTERACTIONS..... | 7 |
| 4.0 SUMMARY OF REMOVAL ACTIVITIES..... | 8 |
| 5.0 REFERENCES | 9 |

Appendix

- A. Site Figure
- B. START Field Notes
- C. Photographic Documentation
- D. Container Summary Table and Field Data Sheets
- E. Laboratory Analytical Results
- F. Waste Manifest
- G. EPA Pollution Situation Reports (Polrep) No. 1 and 2
- H. Access Agreement

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked Tetra Tech Inc. (Tetra Tech), under Superfund Technical Assessment and Response Team (START) Contract EP-S5-13-01, Technical Direction Document (TDD) No. S05-0001-1510-011, to perform the following activities:

- Develop and implement an Air Monitoring Plan
- Conduct air monitoring and assist in unknown drum characterization
- Perform general oversight that includes written and photographic documentation of site activities
- Track costs related to oversight activities
- Develop a letter report of activities completed

These activities were performed as part of an EPA time-critical removal, as described in the 2015 Action Memorandum, for the Spencer Drum Site, located at 408 E Willow Drive, Spencer, Marathon County, Wisconsin (EPA 2015). The purpose of the time-critical removal action was to mitigate threats to public health, welfare, and the environment posed by the presence of uncontrolled hazardous substances at the site. In addition, the EPA committed to conducting air monitoring during removal activities to ensure the safety of on-site workers and to ensure that off-site migration of fugitive emissions from the removal did not adversely affect neighboring residential areas.

This letter report documents removal activities that took place at the Spencer Drum Site from November 30, 2015, through January 6, 2016. Highlights of removal are listed below:

- **November 30 through December 3, 2015:**
 - Mobilize to site
 - Set up decontamination areas
 - Conduct real-time air monitoring
 - Sample all drums and perform field chemistry testing (i.e. hazcatting)
 - Combine liquid waste streams
 - Separate solid/sludge waste streams
- **January 4 through 6, 2015:**
 - Mobilize to site
 - Conduct real-time air monitoring
 - Solidify sludge and dispose of drums
 - Dispose of empty drums, solidified sludge and liquid offsite
 - Remove any spilled contents from the storage room floor

This letter report includes the site description and site background in Section 2.0, removal action activities in Section 3.0, a summary of completed removal action activities in Section 4.0, and references in Section 5.0.

2.0 SITE BACKGROUND

This section describes the site and the site location.

2.1 SITE LOCATION

The Spencer Drum Site (hereinafter referred to as the Site) is located at 408 East Willow Drive, in Spencer, Marathon County, Wisconsin in a mixed residential and commercial area. Commercial properties neighbor the Site to the north and the east. The Spencer Area Fire Department station borders the Site to the South. A residential neighborhood borders the Site to the west. The closest residence is located approximately 200 feet to the west of the Site. A municipal water tower is approximately 100 feet to the northwest of the warehouse located on the Site (see Figure 1 Appendix A).

2.2 SITE DESCRIPTION

The Spencer Drum Site is an approximately 17,000 square foot (ft²) warehouse located in a mixed residential and commercial area in Spencer, Marathon County, WI. The building contains two rooms, a larger room to the north and a much smaller room to the south. The larger room was operated as a mechanic shop from 2012 until December 2014 when the owner passed away. Prior to 2012, the entire warehouse housed a liquidation company and retail shop, known as Don Smith Sales.

The smaller of the two rooms in the warehouse contained approximately 90 drums that were in extremely poor condition. Many of the drums were leaking and some were bulging. The drums were reportedly acquired in the 1970s by the liquidation company. Almost all of the drums were unlabeled and there were no records available regarding the contents of the drums. The liquidation company that acquired the drums is now defunct. A Wisconsin Department of Natural Resources (WDNR) Conservation Warden interviewed personnel associated with the liquidation business, but was unable to acquire any credible generator knowledge regarding the origin of the drums or their contents. The purchaser of the property recently passed, bequeathing the warehouse and its contents to the widow. The widow does not have any knowledge of the origin or contents of the drums. WDNR received an anonymous notification of the drums on June 23, 2015. Shortly thereafter, WDNR requested assistance from the EPA Emergency Response Branch, Superfund Division.

On August 27, 2015, the Marathon County Hazardous Materials Team, Spencer Fire, Wausau Fire, Marathon County Emergency Management, Wisconsin Emergency Management (WEM), WDNR, and EPA conducted an exercise at the Site. Approximately one third of the drums stored at the Site were screened with a Multi-Rae Pro for volatile organic compounds (VOCs), gamma radiation, lower explosive limit, oxygen level, carbon monoxide, and hydrogen sulfide levels. The temperature of the selected

drums was also screened with a Fluke Infrared Thermometer and the condition of the selected drums was assessed. Elevated VOC concentrations were detected from every drum screened; levels ranged from 224 to 99,000 parts per billion (ppb). VOC concentrations exceeding 5,000 ppb are considered to be a respiratory hazard, based on the Occupational Safety and Health Administration (OSHA) short term exposure limit (STEL) for benzene. Benzene was selected because it represents a common constituent of petroleum products (which were observed in some of the drums) and has a conservative STEL. VOC concentrations were higher near the floor than in the breathing zone. Temperatures were relatively consistent, ranging from 62-67°F.

Twelve drums were sampled for additional screening and limited hazard categorization (hazcatting). Almost all of the samples collected were multi-phase; the materials were so old that they were solidifying. The extent of additional evaluation varied based on the constraints of the exercise (i.e., time, darkness, experience levels of the team members). Types of additional screening conducted included general appearance, pH, flammability (pass/fail), water solubility, density, "Spilfyter" strips, Hazmat ID, and Ahura First Defender. Corrosivity (pH>2) and flammability of some of the materials being stored in the warehouse was confirmed using the Spilfyter strips. Of the drums screened, only two appeared to be suitable for shipment without additional repackaging. Many of the drums' contents leaked onto the floor. Contents from the leaking drums have comeingled on the floor of the warehouse. Kitty litter had been previously spread to contain spilled material. The drums were stored very close together. Bulging drums were observed, but not assessed during the exercise due to safety concerns. At the conclusion of the exercise, the agencies gave the owner until September 4, 2015 to hire an environmental contractor or consent to access for an EPA Removal Action. The widow contacted EPA on September 5 providing verbal consent and submitted a signed access agreement on September 8, 2015 (Appendix H).

3.0 REMOVAL ACTION ACTIVITIES

From November 30 to December 3, 2015 and January 4 through 6, 2016, EPA, START, along with the Emergency and Rapid Response Services (ERRS) contractor, conducted unknown waste characterization, consolidation, and removal activities. The On-Scene Coordinator was (OSC) Kathy Halbur. The START contractor was Tetra Tech and the ERRS contractor was Environmental Quality Management (EQM) and their subcontractor Veolia Environmental Services.

Before the removal action a, site-specific health and safety, air monitoring plan, emergency contingency plan and site security plan were developed. Removal activities were conducted under the direction of the on-site EPA OSC in accordance with the Action Memo (EPA 2015). Daily site activities were recorded by EPA and START personnel.

The removal action is discussed in Section 3.0 as five general activities, (1) unknown drum sampling and characterization, (2) waste consolidation, (3) waste removal, (4) air monitoring, and (5) community interactions. Written documentation (START field notes) is provided in Appendix B. Photographic documentation for all site activities are provided in Appendix C. A summary of container contents is provided in a table and field data sheets in Appendix D. Analytical results are provided in Appendix E. The manifest for liquid waste disposed of by SET is provided in Appendix F. EPA's Pollution Report (Polreps) are provided in Appendix G. The property access agreement is provided in Appendix H.

3.1 UNKNOWN DRUM SAMPLING AND CHARACTERIZATION

On November 30 and December 1, 2015, EPA, ERRS, and START sampled (77) 55-gallon drums and (11) small (under 5 gallon) jugs or pails. All samples underwent field chemistry analysis to assess hazardous characteristics of the contents and determine the compatibility of the contents for waste consolidation. Once the waste streams were consolidated, a portion of each waste stream was sent for laboratory analysis to confirm field chemistry results and establish a waste profile. The following section describes procedures used to sample and characterize the unknown containers.

ERRS performed unknown container opening and sampling in level B personal protective equipment (PPE). Most drums were so deteriorated that the contents were exposed, however some drums required unfastening the collar or using a drum deheader (i.e. a device similar to a large can opener). ERRS sampled each container using disposable glass drum thieves or plastic scoops and placed the contents in an 8 ounce glass jar.

Samples from each container were analyzed by ERRS with the assistance of START for flammability, chlorine, water solubility, hexane solubility, and pH using field chemistry testing procedures. Flammability was determine by applying fire to the unknown liquid soaked cotton swab. A Bielstein test was conducted by applying the unknown liquid or solid to a copper ring, then applying fire to determine if a blue or green flame was present. A blue or green flame would indicate potential halogenated organic hydrocarbons. Water solubility and hexane solubility were completed by attempting to mix the unknown liquid or solid in water or hexane. The pH test was completed with pH paper.

Based on the field chemistry test, 5 liquid, solid, or sludge containers tested positive for flammability. None of the flammable containers appeared to contain halogenated organic hydrocarbons. All container contents had a pH between 2 and 12. Results of the field chemistry test and other pertinent container information are provided on the field data sheets in Appendix D. A summary of container contents is provided prior to the field data sheets.

3.2 WASTE CONSOLIDATION

From December 1 through 3, 2015, ERRS consolidated waste into four waste streams (neutral solids, flammable solids, neutral liquids, and flammable liquids) based on the field chemistry tests. Neutral liquids were transferred into (5) 275-gallon totes using an electric pump. Neutral liquids too viscous to be removed by pump, in addition to sludges, were staged separately for later solidification. Flammable liquids were consolidated into one 55-gallon drum. Flammable material (solids and liquids) were then labeled with flammable hazard stickers. ERRS collected representative samples of each of the four waste streams; neutral liquid (SD-N+L Liq-120215), neutral solid (SD-N+L Liq Sol-120215), flammable liquid (SD-N+L Flam Liq-120215), and flammable solid (SD-Flam Sol-120215). An additional sample was collected from a 6 foot diameter, 8 foot deep sump located in the drum room (SD-Pit-120215). The sump was filled with water and was discovered by the property owner prior to EPA mobilization. The sump was sampled due to potential impacts caused by the leaky unknown containers.

Samples collected were submitted to Microbac laboratory in Merrillville, IN for one or more of the following analysis; total metals, VOCs, semi-volatile organic compounds (SVOCs), pH, flammability, sulfide, cyanide, toxicity characteristic leaching procedures (TCLP) metals, TCLP VOCs, and TCLP SVOCs. No significant detections were observed with the exception of flammability. Flammability results were all above 170 °F. Any result above 140 °F is considered low flammability (or combustibility) and therefore qualifies for alternate shipping and disposal options. The full laboratory report is provided in Appendix E.

3.3 WASTE REMOVAL

From January 4 through January 6, 2016, EPA, ERRS, and START, consolidated and solidified sludge, disposed of empty drums, and shipped waste offsite. Two plastic lined 20 yard roll-off boxes were positioned outside the south bay door of the southern building (see drawing on page 11 of the field notebook in Appendix B). A skid steer equipped with a drum handler was used to empty sludge from the original container into a roll-off box containing crushed corn cobs (to absorb the sludge liquid). Once emptied, the container was placed in a second roll-off and crushed using an excavator.

Excess liquids in the sludge roll-off box were further solidified with Portland cement. The room containing the drums was swept clean, disposing of the sweepings in the sludge waste stream. No cracks or foundational issues were observed in the drum room that would indicate a surface to soil pathway. Five totes (containing neutral liquids) and 3 drums (2 solids and 1 liquid that field tested positive for flammability) were removed by SET and disposed of at their facility in Houston Texas under a manifest (Appendix F). Solidified sludge and crushed emptied drums were disposed of at Waste Management Valley Trail Landfill in Berlin, WI.

Water from the sump located in the drum room was not removed based on analytical results (SD-Pit-120215). Analytical results were provided to the property owner, the Spencer Fire Chief, and Spencer Department of Public Works.

3.4 AIR MONITORING

Real-time air monitoring was carried out by START in December 2015 during initial drum opening activities and transferring activities, as described in the Tetra Tech Air Monitoring Plan (Tetra Tech 2015). During initial drum opening and liquid consolidation, START used EPA's AreaRAEs and MultiRAE Pro to assess air quality at the entrance and exit to the drum area and also within the drum area (see figure on page 2 of the field logbook, Appendix B). Air monitoring results for locations in the drum container area and at each of the exits were below site action levels for VOCs, oxygen, and lower explosive limit (LEL). Carbon monoxide was detected at concentrations above the ERRS health and safety plan. Activities ceased to allow for proper ventilation and a third door was opened to the room to mitigate a buildup of carbon monoxide.

During drum removal activities in January 2016, START used EPA's MultiRAE Pro to assess air quality in and downwind of the solidified sludge roll-off box. No readings were detected that were attributed to activities at the site.

3.5 COMMUNITY INTERACTIONS

EPA coordinated with the Spencer Fire Department for use of their nearby facilities and to inform them of the activities. The Wausau Fire Department Hazardous Materials (Hazmat) team was on-site periodically as a follow-up to the Hazmat exercise in August 2015. A representative from the Town of Spencer Public Works was on-site to assess the sump in the drum room and also a second sump discovered in the main (northern) building. This second sump was not sampled. Several representatives from WDNR were on-site to assess ongoing activities and the final condition of the drum room. Based on WDNR assessment the agency will close the spill case. The property owner was onsite periodically and updated on the progress of the cleanup throughout the removal action. EPA produced two pollution/situation reports for the removal action which are provided in Appendix G.

4.0 SUMMARY OF REMOVAL ACTIVITIES

The following is a summary of removal action activities completed from November 30, 2015, through January 6, 2016:

- All immediate threats to human health and the environment were removed and disposed of at appropriate offsite facilities.
- The following amounts of waste were disposed of:
 - 1,250 gallons of bulked neutral liquids
 - 165 gallons of combustible liquids
 - 7.1 tons of bulked neutral sludges and solids
 - 5 tons of Resource Conservation and Recovery Act (RCRA) empty drums and debris
- Air monitoring indicated no sustained air quality concentration above action levels during the removal action, with the exception of carbon monoxide.
- The property owner, community partners and response agencies were notified and consulted throughout the removal activities.

5.0 REFERENCES

Tetra Tech, Inc. 2015. "Final Air Monitoring Plan – Spencer Drum." Prepared for EPA under Contract No. EP-S5-13-01. November 18.

U.S. Environmental Protection Agency (EPA). 2015. Memorandum Regarding Request for Approval and Funding for a Time-Critical Removal Action at the Spencer Drum Site, 408 E Willow Drive, Spencer, Marathon County, Wisconsin (Site ID #C58F) From Kathy Halbur, On-Scene Coordinator. To Richard C. Karl, Director Superfund Division. On-line Address:
https://www.epaossc.org/sites/11240/files/Spencer%20Drum%20Signed%20AM_Redacted.pdf

APPENDIX A
SITE FIGURE



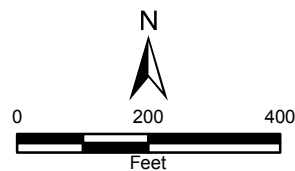
Reference Map



Legend

Approximate Site Boundary

Source: Bing Maps Hybrid, 2013



Spencer Drum Site
408 East Willow Drive
Spencer, Marathon County, Wisconsin

Figure 1 Site Layout Map



Prepared For: US EPA

Prepared By: Tetra Tech

APPENDIX B
START FIELD NOTES

**==DEFYING==
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SINCE 1916



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6 3 2 2 8 1 3 1 1 2 2 5



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LEVEL

Nº 311FX

SPENCER DROM
SPENCER, WI

DECEMBER 2015 → Jan 2016

12-1-15

0700 START (Kondrack) EPA (HARBOR), EGM
(Jeff Rhinck Brian Deskins) Viro-ia (Jiff
(Tyra Roger Bob Amundsen/Ken Lottin Rob
on site. Weather 30s, snow, light
breeze from SE, S. S. fly meeting
haze for supplied air tangled in
from snow hospital rock

0715 ERRS prepare for drum sampling,
EGM Chemist (Brian Deskins) No
prepare hazardous area

0745 Area Raze #1 & #3 calibrated. Area
Raze #3 CO of 2 ppm after calibration.
EPA OSC Harbor Multi Raze Calibrated
Set area Raze in locations from yesterday
Backhoes Sump 6' Diameter and 8' deep
and filled to t/surface with what appear
to be water ~ 226 ¹⁹ ft³ 7.48 gal
in 1 ft³

0800 ERRS continue to sample drums EGM
setting up range hood to sample unknown

0910 ^{drum contents} FIRE Chief (James Fourn) on site

0925 FIRE Chief leaves site

1006 Sample / area observed 57 Drums
Haz Cat 34 Samples

12-1-15

12-1-15

1245 Lunch 1315 Ems Lunch

1430 Finish Hazard & Comp. log sample
volumes - 1,300 gal liquid waste
8 104 gal liquid flammable, 60 gal
Solid Flammable, 284 Solids waste
603 Sludge waste

1530 ERRS transferring liquids into totes
Neutral Liquid 1,440.5 gal
Neutral Solids 742 gal
Flammable liquid 104 gal
Flammable Solids 60 gal

1600 ERRS continue to transfer Neutral liquid
into 275 gallon poly totes; started
2nd tote

Roll off RCRA emptied
Roll off RCRA non-haz solid
5 totes (275 gal) non-haz liquid
2 Drum Flammable Solid
" " liquid

1630 Leave site, Ems Air monitoring
at 1615 no elevated readings
Air Monitoring Area Raze #3
did at some later part of day

12-1-15

Rite in the Rain

12-2-15

- 0730 EPA (Halbur), START (Kondrack), ERM
(Jeff Phibbert, Brian Perkins), Vick
(Rob Morel, Bob Anderson, Tyron Poyser)
- 0800 Performed bump test on AreaRac. Alarms
tested O.K. AreaRac Unit #3 reading 3ppm
CO in ambient air
- 0810 Set AreaRac in same location as 12-1-14
11:30
- 0815 Using forklift set off 1/CO alarm on #3
confirmed with t/Mult.Rac Pro; —
Mult.Rac #3 reading high than Mult.Rac —
Opened second door in S Room to —
allow for better ventilation —
- 0835 Recalibrated AreaRac #3 CO drift
at 0-1 ppm CO —
- 0930 Vick (Kevin Luttman) onsite after picking
up additional totes in M. Room
- 1035 Airgas Picked up supplied Air
- 1055 Guy (name not known) onsite to lock ch
fire door so ERRs can locate out
solid waste upon remediation
AreaRac #1 & #3 switched —
- 1145 Due to the viscosity of t/liquids
the pump keeps breaking down to
- 12-2-15

12-2-15

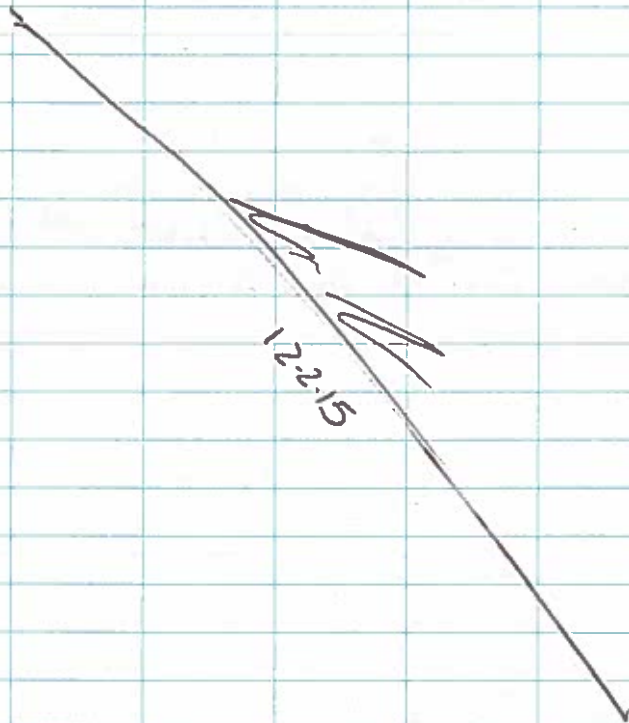
A second pump was brought &
used & also became clogged. ERRs
START to go to lunch while alternate
plan made —

- Beckie 1030 AreaRac CO sensor probably
above 20 ppm due to skid shaker
forklift & compressor Engineering
controls employed —
- 1230 Return from lunch continue to transfer
liquids into totes; liquids transferred are
more easily accessible leaving any
sludge of solids behind —
- 1400 Unit #3 AreaRac battery out, no
read —
- Mult.Rac Pro (Halbur's) put in its
place Unit #3 (by North door) —
- 1415 Changed battery & redeployed —
- 1507 Unit #3 shut off due to memory; no
cord provided therefore will investigate
at t/office ERRs continue to pump
liquids —
- 1545 Pump for removing fluids to bulk container
broken; cease transferring activities
- ~~1600 So Since onsite to end project~~
- 12-2-15

Rite in the Rain

12-2-15

- 1620 End real-time air monitoring; ERRs attempting to fix pump ~~ME~~
- 1-30 leave site except EPA & ERRs (J.H.)
Owner Soc Strickland planned site visit after 1630 ~~ME~~



12-2-15

12-3-15

- 0730 EPA (Hobbs) START (Kendrick), ECH (Jeff Rhin (D), Veda (Bob Ammendson, Kevin Luttinen, Bob Mard, Ty Rogers) onsite. Site Safety meeting. Be careful with opening t/lids. ~~EEEE~~
- 0800 Set up multi-Roc tree in work area. No VOCs detected this far, only CO from ~~site~~ fork lift
- 0815 Attempt to use pump after warning for t/night ~~and running water~~ ~~ME~~
- 0900 Pump still did not function; ERRs went to pick up 2nd pump; operational → continued to pump liquids
- 1130 Finish ~~site~~ removing liquid from drums approx 1,250 gallon removed into 275 gallon totes; sludge material left in bottom. All drums opened; empty drums pushed off to the walls. DO not move drums around for fear of breaking & spilling liquid.
- 1130 Sewerly Door onsite to look at broken south gauge door; ERRs packing equipment into truck for demobilization. 43 drums with remaining solids. 1,250 gallons of residual liquids *left in the rain.* 29 empty drums.

12-3-15

12-3-15

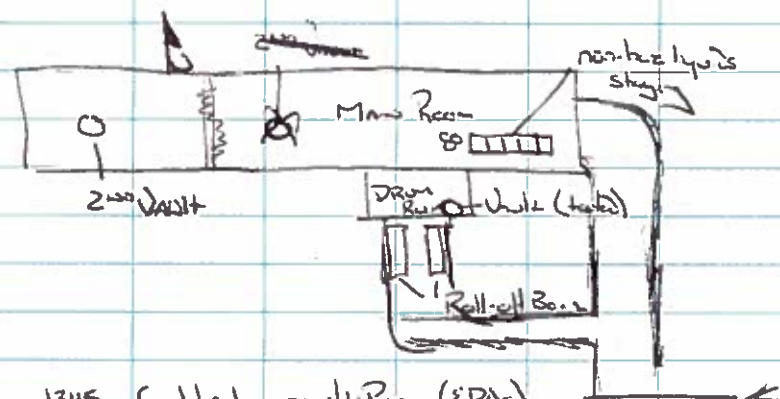
1200 All parties leave site; ———

12-3-15

1/4/16 - Mon

1212 START (Korndorck) onsite. ERRS (Jeff Rhinehart
 Gary Butler - 1 + Ueda (2 labors) onsite
 Site Safety & tutorial Waste Survey
 20s 1.1k to no wind. Laboratory
 analytical determined to be non-flammable
 Behind Ueda (George McDaniel & Mike
 Hutchinson)

1310 Al Antolik Wausau Fire Department
 onsite for site tour. ERRS line 2 roll-off
 boxes (20 yd boxes) ^{w/pots} moved liquid into
 main room.



1345 Calibrate multi-Pace (EPAs)
 Behind Time on photos appear to be off on
 some pictures due to phone rearing
 1400 ERRS dumping semi-liquid material
 into roll-off box from drums then mixing
 with powdered corn cobs. The empty drums
 left in the rain.

1-4-16 Mon

are being placed into a second roll-off box
and smashed both for off-site disposal —
START monitoring drums & liquid containers —
with a multi-Roc Pro, no readings for VOC
or other chemicals (monitoring continued periodically
in & out building)

1432 Joe (contractor) of Spencer Poble Works
wanted to check on result ~~draw~~ EPA will
send results to Joe; left shortly after (5:10 pm)

1447 Jason Fath (Fire Dept Chief) on site, fork
lift mechanical issues, ~3-4 drums emptied

1500 Al Antibaccus site; ERRS dumping of empty
drums into roll-off box

~1505 Sue Strubel on site

1531 Sue Strubel off site

1540 Jason Fath off site

1600 ERRS continue to dump of liquid & solid
neutral liquids/solids

1640 End rotating cleanup work Area. VOCs
& Multi parameters show no readings except
CO near the fork lift.

1-4-16



1-5-16 - Tues

0730 START (Kendrick), EPA (Hansen),
Vedie (George McNeal, Mike Hutchinson)
LOM (Jeff Rhinhardt & Gary Baker)
Weather ~10, light breeze, clear skies
ERRS continue to empty drums into
wash stream (Empty drums sludge to
roll-off box then empty drums in 2nd
container)

0915 Steve Roberts Wausau Fire Dept
on site Assist Hansen (Coordinator)

1005 Steve Roberts off site —
Backhoe Multi-Roc calibrated functioning (confirmed)
within 5% by softener Oxygen above
237, most likely due to cold all other sensors
in & ppm

~0930-1000 OR Tan Hudzak on site

1057 SET on site to pick up liquids

1112 Finish loading sludge & empty drums —
in load off boxes, ERRS starting to
load liquids into SET truck
liquids to be disposed of by at

30x40s & 5 totes SET is Houston, TX

5743 Chestnut, Thruway 015201044

JTK

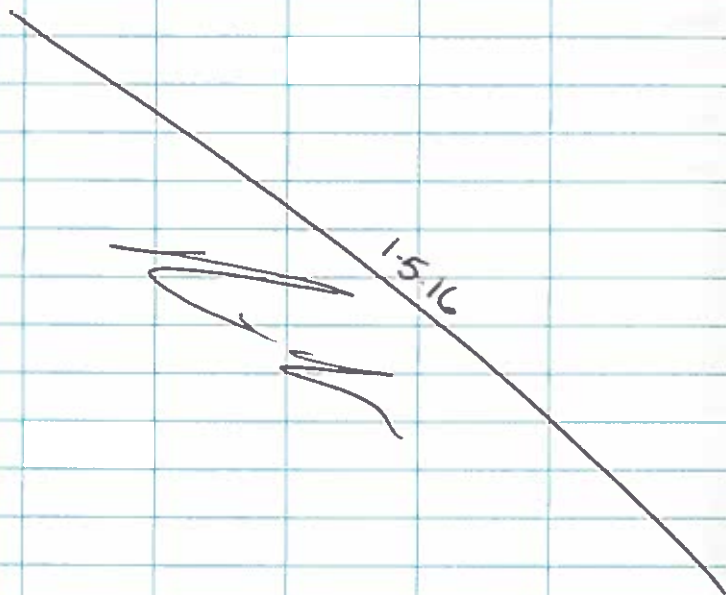
1-5-16



Rite in the Rain

1-5-16 - Tues

- 1145 ERRs finish sweeping floor in drum room.
 Sludge contains more liquid than anticipated.
 therefore ERRs will mix w/ portland ~~cement~~
 cement to solidify mix (in 20yd roll-off).
 Veolia (~~ERR~~ EOM contractor) will clean
 equipment prior to demobilization. STAER
 leaves site; EPA still onsite. ——— ~~11/1~~
 No elevated readings on PID saw
 O₂ elevated for unknown reason
 (probably cold) ——— "



APPENDIX C
PHOTOGRAPHIC DOCUMENTATION



Photographic Documentation

Client: U.S. EPA Region 5

Site Name: Spencer Drum Site

Location: 408 E Willow Drive, Spencer, WI

Prepared by: Tetra Tech, Inc.

TDD Number: S05-0001-1510-011

Dates: November 2015 to January 2016

Photograph No. 1

Photographer:

Robert Kondreck

Description: (West)
Emergency and Rapid
Response Services (ERRS)
contractors performing
unknown container sampling.

Nov 30, 2015, 2:56:18 PM
44.75201603, -90.29606894



Photograph No. 2

Photographer:

Robert Kondreck

Description: (Southeast)
Ambient air monitoring at
the south door using an
AreaRAE.

Nov 30, 2015, 3:55:11 PM
44.75201414, -90.29598881





Photographic Documentation

Client: U.S. EPA Region 5

Site Name: Spencer Drum Site

Location: 408 E Willow Drive, Spencer, WI

Prepared by: Tetra Tech, Inc.

TDD Number: S05-0001-1510-011

Dates: November 2015 to January 2016

Photograph No. 3

Photographer:

Robert Kondreck

Description: (Northwest)
ERRS contractor performing
hazard characterization of
unknown containers.

Dec 1, 2015, 8:48:45 AM



Photograph No. 4

Photographer:

Robert Kondreck

Description: (North) ERRS
consolidating neutral liquids
into a tote in preparation of
off-site disposal.

Dec 1, 2015, 3:54:26 PM
44.75036639,-90.29760867





Photographic Documentation

Client: U.S. EPA Region 5

Site Name: Spencer Drum Site

Location: 408 E Willow Drive, Spencer, WI

Prepared by: Tetra Tech, Inc.

TDD Number: S05-0001-1510-011

Dates: November 2015 to January 2016

Photograph No. 5

Photographer:

Robert Kondreck

Description: (Northeast)

ERRS consolidation activities.
Correct time is 1:46 PM.

Dec 2, 2015, 7:46:32 PM
44.71090947,-90.23093668



Photograph No. 6

Photographer:

Robert Kondreck

Description: (Northeast)

Staged empty containers
with flammable drums in the
forefront.

Dec 3, 2015, 11:48:20 AM
44.75048048,-90.29748944





Photographic Documentation

Client: U.S. EPA Region 5

Site Name: Spencer Drum Site

Location: 408 E Willow Drive, Spencer, WI

Prepared by: Tetra Tech, Inc.

TDD Number: S05-0001-1510-011

Dates: November 2015 to January 2016

Photograph No. 7

Photographer:

Robert Kondreck

Description: (Northwest)

Sludge solidification and empty drum disposal in two 20-yard roll-off boxes.



Photograph No. 8

Photographer:

Robert Kondreck

Description: (East) Emptying

sludge into roll-off box containing ground corn cobs.





Photographic Documentation

Client: U.S. EPA Region 5

Site Name: Spencer Drum Site

Location: 408 E Willow Drive, Spencer, WI

Prepared by: Tetra Tech, Inc.

TDD Number: S05-0001-1510-011

Dates: November 2015 to January 2016

Photograph No. 9

Photographer:

Robert Kondreck

Description: (South) Roll-off box with sludge and ground corn cobs.



Photograph No. 10

Photographer:

Robert Kondreck

Description: (Southeast)
Loading containerized neutral liquids for off-site disposal.





Photographic Documentation

Client: U.S. EPA Region 5
Site Name: Spencer Drum Site
Location: 408 E Willow Drive, Spencer, WI

Prepared by: Tetra Tech, Inc.
TDD Number: S05-0001-1510-011
Dates: November 2015 to January 2016

Photograph No. 11

Photographer:
Kathy Halbur

Date: January 5, 2016

Description: (East) Loading liquid waste into truck for off-site disposal.



Photograph No. 12

Photographer:
Kathy Halbur

Date: January 5, 2016

Description: (East) Cleaned drum room looking east.





Photographic Documentation

Client: U.S. EPA Region 5

Site Name: Spencer Drum Site

Location: 408 E Willow Drive, Spencer, WI

Prepared by: Tetra Tech, Inc.

TDD Number: S05-0001-1510-011

Dates: November 2015 to January 2016

Photograph No. 13

Photographer:

Kathy Halbur

Date: January 5, 2016

Description: (West) Cleaned drum room looking west.



APPENDIX D
CONTAINER SUMMARY TABLE AND FIELD DATA SHEETS

**Container Summary Table
Spencer Drum Site
Spencer, Wisconsin**

| Drum # | Type | Size | Vol | Liq/SI/Sol | Color | Wtr Sol | Hex Sol | React | pH | Cl | Flam |
|--------|-------|------|-----|------------|--------------------|---------|---------|-------|----|----|------|
| D-001 | Steel | 55 | Mt | | | | | | | | |
| D-002 | Steel | 55 | 55 | Sol | Yellow/Clear | I | NA | -- | NA | -- | + |
| D-003 | Steel | 55 | Mt | | | | | | | | |
| D-004 | Steel | 55 | 41 | Liq | Clear/Cloudy | S | I | -- | 7 | -- | -- |
| D-005 | Steel | 55 | 39 | Liq | Pink/Cloudy | S | I | -- | 6 | -- | -- |
| D-006 | Steel | 55 | 33 | Sol | Opaque/Cloudy | I | I | -- | NA | -- | -- |
| D-007 | Steel | 55 | 14 | Sol | Opaque/Cloudy | I | S | -- | NA | -- | -- |
| D-008 | Steel | 55 | 50 | Liq | Pink/Cloudy | S | I | -- | 6 | -- | -- |
| D-009 | Steel | 55 | 6 | Sludge | Opaque/Cloudy | S | I | -- | 7 | -- | -- |
| D-010 | Steel | 55 | 36 | Liq | Opaque/Cloudy | S | I | -- | 6 | -- | -- |
| D-011 | Steel | 55 | 44 | Liq | Brown/Cloudy | S | I | -- | 5 | -- | + |
| D-012 | Steel | 55 | 1 | Sol | Opaque/Cloudy | S | I | -- | 5 | -- | -- |
| D-013 | Fiber | 55 | 28 | Sol | Brown/Clear | I | S | -- | NA | -- | -- |
| D-014 | Fiber | 55 | 33 | Sludge | Brown/Clear | S | I | -- | 7 | -- | -- |
| D-015 | Steel | 55 | 17 | Liq | Opaque/Cloudy | S | I | -- | 6 | -- | -- |
| D-016 | Steel | 55 | 52 | Liq | Black/Clear | S | I | -- | 6 | -- | -- |
| D-017 | Steel | 55 | 25 | Sludge | Opaque/Cloudy | S | I | -- | 7 | -- | -- |
| D-018 | Steel | 55 | 17 | Liq | Opaque/Cloudy | S | I | -- | 6 | -- | -- |
| D-019 | Steel | 55 | 2 | Sludge | Opaque/Cloudy | S | I | -- | 6 | -- | -- |
| D-020 | Steel | 55 | 28 | Liq/Sludg | Opaque/Cloudy | S | I | -- | 6 | -- | -- |
| D-021 | Steel | 55 | 5 | Sol | Opaque/Cloudy | S | I | -- | 6 | -- | -- |
| D-022 | Steel | 55 | 51 | Liq | Opaque/Cloudy | S | I | -- | 8 | -- | -- |
| D-023 | Steel | 55 | 28 | Sludge | Opaque/Cloudy | S | I | -- | 7 | -- | -- |
| D-024 | Steel | 55 | Mt | | | | | | | | |
| D-025 | Steel | 55 | 44 | Sludge | Green/Clear | S | I | -- | 6 | -- | -- |
| D-026 | Steel | 55 | 17 | Liq | Opaque/Cloudy | S | I | -- | 7 | -- | -- |
| D-027 | Steel | 55 | 11 | Liq | Opaque/Cloudy | S | I | -- | 8 | -- | -- |
| D-028 | Steel | 55 | 17 | Sludge | Opaque/Cloudy | S | I | -- | 6 | -- | -- |
| D-029 | Steel | 55 | Mt | | | | | | | | |
| D-030 | Steel | 55 | 55 | Liq | Opaque/Cloudy | S | I | -- | 7 | -- | -- |
| D-031 | Steel | 55 | Mt | | | | | | | | |
| D-032 | Steel | 55 | 14 | Sludge | Opaque/Cloudy | S | I | -- | 7 | -- | -- |
| D-033 | Steel | 55 | 17 | Liq | Yellow/Clear | S | I | -- | 7 | -- | -- |
| D-034 | Steel | 55 | 55 | Liq | Green/Clear | S | I | -- | 6 | -- | -- |
| D-035 | Steel | 55 | 55 | Sol | Opaque/Cloudy | I | I | -- | NA | -- | -- |
| D-036 | Steel | 55 | Mt | | | | | | | | |
| D-037 | Steel | 55 | 28 | Sol | Black/Opaque | S | I | -- | 6 | -- | -- |
| D-038 | Steel | 55 | 55 | Liq | White/Opaque | S | I | -- | 6 | -- | -- |
| D-039 | Steel | 55 | 8 | Sludge | White/Cloudy | S | I | -- | 7 | -- | -- |
| D-040 | Steel | 55 | 3 | Sol | Brown/Opaque | S | I | -- | 6 | -- | -- |
| D-041 | Fiber | 55 | 2 | Liq/Sludge | Milky Brown/Opaque | S | I | -- | 7 | -- | -- |
| D-042 | Steel | 55 | 44 | Liq | Light Green/Clear | S | I | -- | 6 | -- | -- |
| D-043 | Steel | 55 | Mt | | | | | | | | |
| D-044 | Steel | 55 | 28 | Liq | Gray/Clear | S | I | -- | 7 | -- | -- |
| D-045 | Steel | 55 | 6 | Sludge | Milky Brown/Opaque | S | I | -- | 5 | -- | -- |
| D-046 | Steel | 55 | 6 | Sludge | White/Opaque | S | I | -- | 7 | -- | -- |
| D-047 | Steel | 55 | 55 | Sludge | Clear/Clear | I | I | -- | NA | -- | -- |
| D-048 | Steel | 55 | 47 | Sludge | Brown/Opaque | I | I | -- | NA | -- | -- |
| D-049 | Steel | 55 | 55 | Sludge | Brown/Opaque | I | I | -- | 7 | -- | -- |

Container Summary Table
Spencer Drum Site
Spencer, Wisconsin

| Drum # | Type | Size | Vol | Liq/SI/Sol | Color | Wtr Sol | Hex Sol | React | pH | Cl | Flam |
|--------|-------|------|-----|------------|--------------------|---------|---------|-------|----|----|------|
| D-050 | Steel | 55 | 44 | Sludge | Brown/Opaque | I | I | -- | NA | -- | -- |
| D-051 | Steel | 55 | 50 | Liq | Pink/Clear | S | I | -- | 7 | -- | -- |
| D-052 | Steel | 55 | 28 | Liq | Brown/Clear | S | I | -- | 6 | -- | -- |
| D-053 | Steel | 55 | 50 | Liq | White/Opaque | S | I | -- | 8 | -- | -- |
| D-054 | Steel | 55 | 41 | Liq | Yellow/Clear | S | I | -- | 6 | -- | -- |
| D-055 | Steel | 55 | 55 | Liq | Pink/Clear | S | I | -- | 6 | -- | -- |
| D-056 | Steel | 55 | 55 | Liq | White/Pink/Opaque | S | I | -- | 6 | -- | -- |
| D-057 | Steel | 55 | 50 | Liq | Brown | S | I | -- | 7 | -- | -- |
| D-058 | Steel | 55 | Mt | | | | | | | | |
| D-059 | Steel | 55 | 39 | Sol | Brown/Cloudy | S | I | -- | 5 | -- | -- |
| D-060 | Steel | 55 | Mt | | | | | | | | |
| D-061 | Steel | 55 | 55 | Sludge | Brown/Opaque | S | I | -- | 8 | -- | -- |
| D-062 | Steel | 55 | 6 | Sol | White/Opaque | I | I | -- | NA | -- | -- |
| D-063 | Steel | 55 | 33 | Sludge | Brown/Opaque | S | I | -- | 6 | -- | -- |
| D-064 | Steel | 55 | 55 | Sol | Green Brown/Opaque | S | I | -- | 7 | -- | -- |
| D-065 | Steel | 55 | 52 | Liq | White/Opaque | S | I | -- | 6 | -- | -- |
| D-066 | Steel | 55 | 55 | Liq | White/Opaque | S | I | -- | 6 | -- | -- |
| D-067 | Steel | 55 | Mt | | | | | | | | |
| D-068 | Steel | 55 | 52 | Liq | Pink/Clear | S | I | -- | 7 | -- | -- |
| D-069 | Steel | 55 | 32 | Liq | Grn/Clear | S | I | -- | 7 | -- | -- |
| D-070 | Steel | 55 | 55 | Liq | Purple/Opaque | S | I | -- | 7 | -- | -- |
| D-071 | Steel | 55 | 44 | Liq | White/Opaque | S | I | -- | 7 | -- | -- |
| D-072 | Steel | 55 | 44 | Liq | White/Clear | S | I | -- | 6 | -- | -- |
| D-073 | Steel | 55 | 55 | Liq | Gray/Clear | S | I | -- | 6 | -- | + |
| D-074 | Steel | 55 | 17 | Sol | Brown/Opaque | S | I | -- | 7 | -- | -- |
| D-075 | Steel | 55 | 39 | Sludge | Brown/Opaque | S | I | -- | 6 | -- | -- |
| D-076 | Steel | 55 | 55 | Sludge | Brown/Clear | I | I | -- | NA | -- | -- |
| D-077 | Steel | 55 | 39 | Liq | Brown/Opaque | S | I | -- | 6 | -- | -- |
| P-001 | Pail | 5 | 2 | Liq | Black/Clear | S | I | -- | 8 | -- | -- |
| P-002 | Jug | 1 | 0.5 | Liq | Pink/Opaque | S | I | -- | 6 | -- | -- |
| P-003 | Jug | 1 | 1 | Liq | Black/Opaque | S | I | -- | 6 | -- | -- |
| P-004 | Jug | 1 | 1 | Liq | Black/Opaque | S | I | -- | 6 | -- | -- |
| P-005 | Jug | 1 | 1 | Liq | Blue/Opaque | S | I | -- | 7 | -- | -- |
| P-006 | Jug | 1 | 1 | Liq | Blue/Opaque | S | I | -- | 7 | -- | -- |
| P-007 | Jug | 1 | 1 | Liq | Black/Clear | S | I | -- | 7 | -- | -- |
| P-008 | Pail | 5 | 5 | Sludge | Black/Opaque | I | S | -- | NA | -- | + |
| P-009 | Pail | 1 | 1 | Liq | Brown | S | I | -- | 6 | -- | -- |
| P-010 | Pail | 1 | 1 | Sludge | Brown/Opaque | S | I | -- | 6 | -- | -- |
| P-011 | Pail | 5 | 5 | Liq | Black | I | S | -- | NA | -- | + |

Notes:

Highlighted orange row indicates sample tested positive for flammability

| | | | |
|------|-------------|-----|----------------------------|
| -- | Not tested | NA | Not Applicable (too thick) |
| Cl | Chlorinated | S | Soluble |
| Flam | Flammable | SI | Sludge |
| Hex | Hexane | Sol | Solid |
| I | Insoluble | Wtr | Water |
| Liq | Liquid | | |
| Mt | Empty | | |

Emerson 221 USP
BLK DR

HM-1, Rev. 3



ATTACHMENT A

Container No. DI
Waste Stream _____

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Site Name: Spencer Drum Location: Spencer, VT Samplers: Drown
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

MT

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | | | | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | | | | | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: _____

Date: _____

(Top of Drum) Compound Oil
PA - 54855

HM-1, Rev. 3



ATTACHMENT A

Container No. D3
Waste Stream _____

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Site Name: Spencer Drum Location: Spencer, WI Samplers: DEOLA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

MT

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | | | | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations :OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | | | | | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: _____

Date: _____



ATTACHMENT A

 Container No. 1724
 Waste Stream _____

DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: _____ Location: _____ Samplers: _____
 Date: _____ Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Open
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | SOL | |
| Middle | OPQ | CDY | SOL | |
| Bottom | OPQ | CDY | SOL | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

 190
 Looks like
 RUST only
Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | | | | | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: _____

Date: _____



ATTACHMENT A

 Container No. D 29
 Waste Stream _____

DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: _____ Location: _____ Samplers: _____
 Date: _____ Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

MT

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | | | | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | | | | | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: _____

Date: _____



ATTACHMENT A

 Container No. D31
 Waste Stream _____

DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: _____ Location: _____ Samplers: _____
 Date: _____ Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

MT
DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | | | | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | | | | | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: _____

Date: _____



ATTACHMENT A

 Container No. D30
 Waste Stream _____

DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JACQUA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|--------------|------------|----------------|-------------------|
| Top | <u>white</u> | <u>OPQ</u> | <u>LIQ</u> | |
| Middle | <u>white</u> | <u>OPQ</u> | <u>LIQ</u> | |
| Bottom | <u>white</u> | <u>OPQ</u> | <u>LIQ</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

1/16
2
No Sample
Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | | | | | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: _____

 Date: 12-1-15



ATTACHMENT A

 Container No. 043
 Waste Stream _____

DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: _____ Location: _____ Samplers: _____
 Date: _____ Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

MT

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | | | | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | | | | | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: _____

Date: _____



ATTACHMENT A

 Container No. 1758
 Waste Stream _____

DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION
Site Name: SPENCER DRUMLocation: SPENCER, WISamplers: J. COLEDate: 12-1-15

Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: 6/6500
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

MT

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | | | LIQ | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | | | | | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: _____

Date: _____

No Sample



ATTACHMENT A

 Container No. D60
 Waste Stream _____

DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER Drum Location: SPENCER, VT Samplers: J. COLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

MT

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | | | | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | OX | SOL | Cl | Flam. |
|--------|------------|-----------|--------|----|------|-------|----|-----|----|-------|
| Top | | | | | | | | | | |
| Middle | | | | | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: _____

 Date: 12-1-15



ATTACHMENT A

Crushed

Container No. 267
Waste Stream _____

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: _____ Location: _____ Samplers: _____
Date: _____ Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

MT

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | | | | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | | | | | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: _____

Date: _____



ATTACHMENT A

 Container No. P11
 Waste Stream Flam

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: UEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank Pit
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>B/K</u> | <u>B/K</u> | <u>LIQ/SDG</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations :OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | ON | Sulf. | Cl- | Flam. |
|--------|------------|-----------|----------|-----------|------|-------|----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>I</u> | <u>S</u> | <u>-</u> | <u>NA</u> | | | | | <u>-</u> | <u>+</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15

100%
Plastic Cement
TAR
like



ATTACHMENT A

 Container No. D73
 Waste Stream Flam

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, WI Samplers: JEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------------------|------------|----------------|-------------------|
| Top | <u>Light Gray</u> | <u>CLR</u> | <u>LIQ</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Slight Purple tint

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|----------|----------|------|-------|-----------------|-------|-----------------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>+</u> |
| Bottom | | | | | | | | | | |

Low Flam

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

 Container No. D2
 Waste Stream Flam

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPRINGER DRUM Location: SPRINGER WE Samplers: VEOLIA
 Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

Solid state 98% full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|--------|---------|----------------|-------------------|
| Top | Yellow | Clear | Solid | |
| Middle | Yellow | Clear | Solid | |
| Bottom | Yellow | Clear | Solid | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Px. | Ox. | Cl. | Flam. |
|--------|------------|-----------|--------|-----------|-----|-----|-----|-------|
| Top | | | | | | | | |
| Middle | I | Too Thick | - | Too Thick | | | | |
| Bottom | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

 Container No. D11
 Waste Stream FLAM

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, WI Samplers: JEONIA
 Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank

Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN

Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____

Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____

Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____

Condition: Poor Fair Good

80% Full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-----------|---------|----------------|-------------------|
| Top | Brown | CDG | Lg | |
| Middle | Brn/white | CDG | Lg | |
| Bottom | white | CDG | Lg | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Px. | Ox. | OX | SX | Cl | Flam. |
|--------|------------|-----------|--------|----|-----|-----|----|----|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 5 | | | | | - | + |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

 Gray Part
 Container No. P8
 Waste Stream Flam

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SANCTUARY DRUM Location: SANCTUARY, WI Samplers: VEOLA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

100%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|-----------------|-------------------|
| Top | <u>BLK</u> | <u>CDY</u> | <u>>1% C</u> | |
| Middle | <u> </u> | <u> </u> | <u> </u> | |
| Bottom | <u> </u> | <u> </u> | <u> </u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | PS | IL | CL | SD | Cl ⁻ | Flam. |
|--------|------------|-----------|----------|------------------|---------------|---------------|---------------|---------------|-----------------|----------|
| Top | | | | | | | | | | |
| Middle | <u>I</u> | <u>S</u> | <u>-</u> | <u>Too Thick</u> | | | | | <u>-</u> | <u>+</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 Container No. D34
 Waste Stream by hand

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

10096

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | CLR | CLR | LIQ | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BP

 Date: 12-1-15



ATTACHMENT A

Brown
38
Container No. D 38Waste Stream by ventDRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATIONSite Name: SPENCER DRUMLocation: SPENCER, VTSamplers: JeaniaDate: 12-1-15

Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|---------------|------------|----------------|-------------------|
| Top | <u>WH/BRL</u> | <u>OPQ</u> | <u>LIQ</u> | |
| Middle | | <u>OPQ</u> | | |
| Bottom | | <u>OPQ</u> | | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN | Sulf. | Cl | Flam. |
|--------|------------|-----------|----------|----------|------|-------|----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EQ)Date: 12-1-15



ATTACHMENT A

 Container No. D42
 Waste Stream High Neutral
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRAIN Location: SPENCER, VT Samplers: JEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

80%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-----------------|------------|----------------|-------------------|
| Top | <u>Lt Green</u> | <u>CLR</u> | <u>LIQ</u> | |
| Middle | <u>/</u> | <u>/</u> | <u>/</u> | |
| Bottom | <u>/</u> | <u>/</u> | <u>/</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Ox | CM | Sulf | Cl | Flam. |
|--------|------------|-----------|----------|----------|-----|----|----|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EQ)

 Date: 12-1-15



ATTACHMENT A

no lid
Blue
with stripe

Container No. D44
Waste Stream Log Neutral

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: Spencer Drum Location: Spencer, WI Samplers: VEOLIA
Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|--------------|------------|---------------------|-------------------|
| Top | <u>Black</u> | <u>CLR</u> | <u>Log w/ chunk</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxd. | CN | Sulf. | Cl | Flam. |
|--------|------------|-----------|----------|----------|------|------|----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EQ)

Date: 12-1-15



ATTACHMENT A

Container No. D45Waste Stream Liquid ~~Sludge~~
D-4DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATIONSite Name: SPENCER DrumLocation: SPENCER, VTSamplers: DebraDate: 12-1-15

Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

1090

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------------|------------|----------------|-------------------|
| Top | <u>m/kg Brew</u> | <u>OPQ</u> | <u>SDG</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | PS | OXD. | CI | SL | Cl | Flam. |
|--------|------------|-----------|----------|----------|---------------|-----------------|---------------|---------------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>5</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EG)Date: 12-1-15



ATTACHMENT A

 Container No. 051
 Waste Stream High Neutral
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------------|------------|----------------|-------------------|
| Top | <u>Pink</u> | <u>CLR</u> | <u>Liq</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN | Sulf. | Cl- | Flam. |
|--------|------------|-----------|----------|----------|------|-------|----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 Container No. D52
 Waste Stream light
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, WF Samplers: JEOLIA
 Date: _____ Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>BRN</u> | <u>CLR</u> | <u>LIQ</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | Chl. | Sulf. | Cl- | Flam. |
|--------|------------|-----------|----------|----------|------|-------|------|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 Container No. DS3
 Waste Stream leg. Dist.

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

9090

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------------|------------|----------------|-------------------|
| Top | <u>CLR / wTR</u> | <u>OPQ</u> | <u>LIQ</u> | |
| Middle | <u>WH</u> | | | |
| Bottom | <u>WH</u> | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid. | CM | Sulf. | Cl- | Flam. |
|--------|------------|-----------|----------|----------|-----|-------|----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>8</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BPDate: 12.1-15



ATTACHMENT A

 Container No. D54
 Waste Stream Long Island

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|---------------|------------|----------------|-------------------|
| Top | <u>Yellow</u> | <u>CLR</u> | <u>Liq</u> | |
| Middle | <u>1</u> | <u>1</u> | <u>1</u> | |
| Bottom | <u>1</u> | <u>1</u> | <u>1</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | P _{ox} | O ₂ d. | CN | S _{ox} f. | Cl ⁻ | Flam. |
|--------|------------|-----------|----------|----------|-----------------|-------------------|----|--------------------|-----------------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 Container No. D55
 Waste Stream High Well
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION
Site Name: Sawcer DamLocation: Sawcer, WISamplers: UEOLIADate: 12-1-15

Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

100%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------------|------------|----------------|-------------------|
| Top | <u>pink</u> | <u>CLR</u> | <u>LIQ</u> | |
| Middle | <u>l</u> | <u>l</u> | <u>l</u> | |
| Bottom | <u>l</u> | <u>l</u> | <u>l</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid. | Ch | SD | Cl | Flam. |
|--------|------------|-----------|----------|----------|----------------|------------------|---------------|---------------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

 Container No. DSG
 Waste Stream Leach Water

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPRINGER DRAIN Location: SPRINGER, VT Samplers: JEOLIA
 Date: _____ Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

100%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|----------------|------------|----------------|-------------------|
| Top | <u>WH/Pink</u> | <u>OPQ</u> | <u>LIQ</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Ref. | Oxid. | Cor. | Sol. | Cl. | Flam. |
|--------|------------|-----------|----------|----------|------|-------|------|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

 Container No. D57
 Waste Stream Liquid
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: USOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

95%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|--------------------|---------|----------------|-------------------|
| Top | <u>Brown/Black</u> | | <u>Liq</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Ref. | Oxid. | Cl ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|----------|----------|------|-------|-----------------|-------|-----------------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 Container No. D65
 Waste Stream big metal
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, W.F. Samplers: J. E. ...
 Date: 12-1-15 Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)
 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

9070

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-----------|------------|----------------|-------------------|
| Top | <u>WH</u> | <u>OPQ</u> | <u>LIQ</u> | |
| Middle | <u>I</u> | <u>I</u> | <u>I</u> | |
| Bottom | <u>I</u> | <u>I</u> | <u>I</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | Cor. | Self. | Cl. | Flam. |
|--------|------------|-----------|----------|----------|------|-------|------|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 GRN ID#
 Container No. D66
 Waste Stream Liquid

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

10096

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-----------|------------|----------------|-------------------|
| Top | <u>IH</u> | <u>OPQ</u> | <u>Liq</u> | |
| Middle | <u>I</u> | <u>I</u> | <u>I</u> | |
| Bottom | <u>I</u> | <u>I</u> | <u>I</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | PS | Ox. | DN | Sol. | Cl | Flam. |
|--------|------------|-----------|----------|----------|---------------|----------------|---------------|-----------------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 Container No. P68
 Waste Stream High Purity

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, NJ Samplers: VEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: C/covered
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

90%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------------|------------|----------------|-------------------|
| Top | <u>Pink</u> | <u>CLR</u> | <u>LIQ</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Px. | Oxid. | Exp. | St. | Cl. | Flam. |
|--------|------------|-----------|----------|----------|-----|-------|------|-----|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

 Container No. D69
 Waste Stream big vent
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VEOLIA
 Date: 12-1-15 Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)
 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good
DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>CLR</u> | <u>CLR</u> | <u>L-7</u> | |
| Middle | <u>I</u> | <u>I</u> | <u>I</u> | |
| Bottom | <u>OPQ</u> | <u>OPQ</u> | <u>SDG</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid. | EN | Sol. | Cl | Flam. |
|--------|------------|-----------|----------|----------|-----|-------|----|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | <u>S</u> | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 GRU DR
 Container No. D70
 Waste Stream by Distill

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, WI Samplers: JEONIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|---------------|------------|----------------|-------------------|
| Top | <u>Purple</u> | <u>OPQ</u> | <u>L-g</u> | |
| Middle | <u>I</u> | <u>I</u> | <u>I</u> | |
| Bottom | <u>I</u> | <u>I</u> | <u>SDG</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Ox. | DN | SD | Cl | Flam. |
|--------|------------|-----------|----------|----------|----------------|----------------|---------------|---------------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 Container No. D71
 Waste Stream Leaked Neutral

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION
Site Name: SPENCER DRUMLocation: SPENCER, VTSamplers: JEOLIADate: 12-1-15

Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

80%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-----------|------------|----------------|-------------------|
| Top | <u>wh</u> | <u>OPQ</u> | <u>Liq</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | Cor. | Sol. | Cl. | Flam. |
|--------|------------|-----------|----------|----------|------|-------|------|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15

Blue PR



ATTACHMENT A

 Container No. D72
 Waste Stream Liquid Nitrogen
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, WI Samplers: Joan
 Date: 12-1-15 Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)
 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

80%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | CLR | CLR | Liq | |
| Middle | WHT | OPQ | Liq | |
| Bottom | | | SDG | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN | S&H. | Cl | Flam. |
|--------|------------|-----------|--------|----|------|-------|----|------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15

Destroyed lid

HM-1, Rev. 3



ATTACHMENT A

Container No. D77
Waste Stream Liquid Water

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JEOLIA
Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>BRN</u> | <u>OPQ</u> | <u>LIQ</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid. | CN | Sulf. | Cl | Flam. |
|--------|------------|-----------|----------|----------|-----|-------|----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD Date: 12-1-15



ATTACHMENT A

5gal Pail
 Container No. P1
 Waste Stream by N-H1

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER Drum Location: SPENCER DE Samplers: J. EDWIN
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank Pail
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|--------------|---------------|----------------|-------------------|
| Top | <u>Brown</u> | <u>Cloudy</u> | <u>Liq</u> | |
| Middle | | <u>1</u> | <u>1</u> | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CNK | Sulf. | Cl- | Flam. |
|--------|------------|-----------|----------|----------|-----------------|------------------|----------------|------------------|----------------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>8</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EG)

Date: 12-1-15



ATTACHMENT A

 Container No. P2
 Waste Stream High Neutral
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, WI Samplers: VEOLIA
 Date: 12-1-15 Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)

| | | | | | | | |
|------------------|---------|--------|-----------------|------------|------------|------------|--------------|
| Type: | Drum | Vat | Pit | Tank | <u>Tug</u> | | |
| Construction: | Steel | Poly | Fiber | Poly-lined | Open-top | Closed-top | Other: _____ |
| Total Volume: | 85 gal | 55 gal | 30 gal | 10 gal | 5 gal | Other: | <u>1 gal</u> |
| Waste Volume: | 100% | 75% | 50% | 25% | <25% | Empty | Other: _____ |
| Field Screening: | OVA/HNu | %LEL | %O ₂ | Rad. Meter | pH _____ | | |
| Condition: | Poor | Fair | Good | | | | |

> 10%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------------|------------|----------------|-------------------|
| Top | <u>Pink</u> | <u>OPQ</u> | <u>Liq</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Re. | Ox. | Cl. | Suff. | Cl. | Flam. |
|--------|------------|-----------|----------|----------|-----|-----|-----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EQ)

 Date: 12-1-15



ATTACHMENT A

 Container No. 173
 Waste Stream Highly Neutral
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

| | | | | | | | |
|------------------|---------|--------|-----------------|------------|------------|------------|---------------|
| Type: | Drum | Vat | Pit | Tank | <u>Jug</u> | | |
| Construction: | Steel | Poly | Fiber | Poly-lined | Open-top | Closed-top | Other: _____ |
| Total Volume: | 85 gal | 55 gal | 30 gal | 10 gal | 5 gal | Other: | <u>16 gal</u> |
| Waste Volume: | 100% | 75% | 50% | 25% | <25% | Empty | Other: _____ |
| Field Screening: | OVA/HNu | %LEL | %O ₂ | Rad. Meter | pH _____ | | |
| Condition: | Poor | Fair | Good | | | | |

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>B/L</u> | <u>OPQ</u> | <u>Liq</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | Cor. | Sol. | Cl. | Flam. |
|--------|------------|-----------|----------|----------|------|-------|------|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EQ) Date: 12-1-15



ATTACHMENT A

 Container No. P4
 Waste Stream Liquid Metal
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JOELIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

| | | | | | | | |
|------------------|---------|--------|-----------------|------------|------------|---------------------|--------------|
| Type: | Drum | Vat | Pit | Tank | <u>Jug</u> | | |
| Construction: | Steel | Poly | Fiber | Poly-lined | Open-top | Closed-top | Other: _____ |
| Total Volume: | 85 gal | 55 gal | 30 gal | 10 gal | 5 gal | Other: <u>1 Gal</u> | |
| Waste Volume: | 100% | 75% | 50% | 25% | <25% | Empty | Other: _____ |
| Field Screening: | OVA/HNu | %LEL | %O ₂ | Rad. Meter | pH _____ | | |
| Condition: | Poor | Fair | Good | | | | |

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|----------------|------------|----------------|-------------------|
| Top | <u>BLK/GRN</u> | <u>OPQ</u> | <u>LIQ</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CNK | Sulf. | Cl- | Flam. |
|--------|------------|-----------|--------|----------|------|-------|-----|-------|-----|-------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | | <u>L</u> | | | | | | |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 Container No. PS
 Waste Stream Liquid Waste
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: Spencer Dam Location: SPENCER, VT Samplers: JEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

| | | | | | |
|------------------|---------------|------------|-----------------------|---------------------|-------------------------|
| Type: | Drum | Vat | Pit | Tank | |
| Construction: | Steel | Poly | Fiber | Poly-lined Open-top | Closed-top Other: _____ |
| Total Volume: | 85 gal | 55 gal | 30 gal | 10 gal | 5 gal Other: _____ |
| Waste Volume: | 100% | 75% | 50% | 25% | <25% Empty Other: _____ |
| Field Screening: | OVA/HNu _____ | %LEL _____ | %O ₂ _____ | Rad. Meter _____ | pH _____ |
| Condition: | Poor | Fair | Good | | |

7570

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | BLU | OPQ | LIQ | |
| Middle | L+BLU | | | |
| Bottom | WH | | SPG | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Refr. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|-------|-------|-----------------|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 7 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD Date: 12-1-15



ATTACHMENT A

 Container No. P6
 Waste Stream Liquid Waste
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JEOLIA
 Date: 12-1-15 Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)

| | | | | | | | |
|------------------|---------|--------|-----------------|------------|------------|------------|--------------|
| Type: | Drum | Vat | Pit | Tank | <u>Jug</u> | | |
| Construction: | Steel | Poly | Fiber | Poly-lined | Open-top | Closed-top | Other: _____ |
| Total Volume: | 85 gal | 55 gal | 30 gal | 10 gal | 5 gal | Other: | <u>1 Gal</u> |
| Waste Volume: | 100% | 75% | 50% | 25% | <25% | Empty | Other: _____ |
| Field Screening: | OVA/HNu | %LEL | %O ₂ | Rad. Meter | pH _____ | | |
| Condition: | Poor | Fair | Good | | | | |

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|--------------|------------|----------------|-------------------|
| Top | <u>BLU</u> | <u>OPQ</u> | <u>LIQ</u> | |
| Middle | <u>LTBLU</u> | <u>1</u> | <u>LIQ</u> | |
| Bottom | <u>WH</u> | <u>1</u> | <u>SDG</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CM | SDM | Cl | Flam. |
|--------|------------|-----------|----------|----------|------|-------|----|-----|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

 Container No. P7
 Waste Stream Layered Neutral
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION
Site Name: SPENCER DRUMLocation: SPENCER, VTSamplers: JEANNADate: 12-1-15

Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank Jug
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: 1 gal
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-----------------|------------|----------------|-------------------|
| Top | <u>Brownish</u> | <u>CLR</u> | <u>Liq</u> | |
| Middle | | | | |
| Bottom | | | | |

100%

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | ON | Sulf. | Cl | Flam. |
|--------|------------|-----------|----------|----------|------|-------|----|-------|----------|----------|
| Top | | | | <u>7</u> | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

Container No. P9
Waste Stream Liquid Waste

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JEDWA
Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank Pail
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: 1 Pail
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

90/0

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|--------------|------------|----------------|-------------------|
| Top | <u>Brown</u> | <u>EDS</u> | <u>Liq</u> | |
| Middle | <u>1</u> | <u>1</u> | <u>1</u> | |
| Bottom | <u>Wt</u> | <u>1</u> | <u>1</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per _x | Oxid. | GN ⁺ | S _{eff} | Cl ⁻ | Flam. |
|--------|------------|-----------|----------|----------|------------------|-------|-----------------|------------------|-----------------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15

(Painted) 4X
B/K PI



ATTACHMENT A

DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

Container No. D5
Waste Stream Sludge
Solid Waste

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VEOLIA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Open
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------------|------------|----------------|-------------------|
| Top | <u>Pink</u> | <u>CDY</u> | <u>Sol</u> | |
| Middle | <u>Pink</u> | <u>CDY</u> | <u>Sol</u> | |
| Bottom | <u>Pink</u> | <u>CDY</u> | <u>Sol</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Ox. | Cl ⁻ | Flam. |
|--------|------------|-----------|----------|----------|------|-----|-----------------|-------|
| Top | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | |
| Bottom | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15



ATTACHMENT A

Lieberman Dist & Mfg
1639 University Ave
St Paul, MN 55104

Container No. D 6
Waste Stream Solid Neutral

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VEOLIA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: open
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

60% Fe 11

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | SOL | |
| Middle | OPQ | CDY | SOL | |
| Bottom | OPQ | CDY | SOL | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Appears like Drum #2

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Pox. | Oxd. | CK | Sol. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|-----------|------|------|----|------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | I | I | - | Too Thick | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15



ATTACHMENT A

Container No. D7Waste Stream Solid WasteDRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATIONSite Name: SPENCER DRUMLocation: SPENCER, VTSamplers: J. G. W. A.Date: 11-30-15

Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: open
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | SOL | |
| Middle | OPQ | CDY | SOL | |
| Bottom | OPQ | CDY | SOL | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Ox. | ON | Sulf. | Cl | Flam. |
|--------|------------|-----------|--------|-----------|------|-----|----|-------|----|-------|
| Top | | | | | | | | | | |
| Middle | I | S | — | Too Thick | | | | | — | — |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15Highman Dist + Inc
Blue SS

25% Full



ATTACHMENT A

 OX y Sterate
 Container No. D12
 Waste Stream Solid Waste

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: USOLIA
 Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

2% full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | SOL/SDG | |
| Middle | OPQ | CDY | SOL/SDG | |
| Bottom | OPQ | CDY | SOL/SDG | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid | Cor | Sol. | Cl | Flam. |
|--------|------------|-----------|--------|----|-----|------|-----|------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 5 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

Container No. D13
Waste Stream Solid Drum

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VEOLIA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

50% Full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|---------|---------|----------------|-------------------|
| Top | CLR BRW | CLR | Sol | |
| Middle | CLR BRW | CLR | Sol | |
| Bottom | CLR BRW | CLR | Sol | |

Abbreviations :OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | P ₊ | Ox ₊ | CM | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|-----------|----------------|-----------------|----|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | I | S | - | Too Thick | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15



ATTACHMENT A

on pallet
punctured hole

Container No. D14
Waste Stream Solid Waste

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VEOLIA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

60% Full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|---------|---------|----------------|-------------------|
| Top | CLR BRW | CLR | SDG | |
| Middle | CLR BRW | CLR | SDG | |
| Bottom | CLR BRW | CLR | SDG | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Pct. | Oxd. | CN | Sol. | Cl | Flam. |
|--------|------------|-----------|--------|----|------|------|----|------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 7 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15



ATTACHMENT A

Bottom VP
Green
Side open

Container No. D19
Waste Stream Solid Waste

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Site Name: SPENCER DRAIN Location: SPENCER, VT Samplers: DELOIA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | SDG/SOL | |
| Middle | OPQ | CDY | SDG/SOL | |
| Bottom | OPQ | CDY | SDG/SOL | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | OX | ON | SP | Cl | Flam. |
|--------|------------|-----------|--------|----|------|----|----|----|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EC)

Date: 12-1-15



ATTACHMENT A

 Container No. D21
 Waste Stream Solid Neutral
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, WI Samplers: VEDLIA
 Date: 11-30-15 Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)
 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

870 F44

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | SOL | |
| Middle | OPQ | CDY | SOL | |
| Bottom | OPQ | CDY | SOL | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Pk | Oxd. | On | Skr. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|---------------|-----------------|---------------|-----------------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EQ) Date: 12-1-15



ATTACHMENT A

Blue
Rusted Through Tank

Container No. D 28
Waste Stream Solid Waste

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JEOLIA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | SDG | |
| Middle | OPQ | CDY | SDG | |
| Bottom | OPQ | CDY | SDG | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | P _{ox} | O ₂ | C _{ox} | S _{ox} | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|-----------------|----------------|-----------------|-----------------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD(EQ)

Date: 12-1-15



ATTACHMENT A

 Container No. D35
 Waste Stream Solid Waste

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: J. ROWE
 Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: NO LID OPEN
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

100% full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | SOL | |
| Middle | OPQ | CDY | SOL | |
| Bottom | OPQ | CDY | SOL | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid. | Cor. | Flam. | Cl- | Flam. |
|--------|------------|-----------|--------|--------|-----|-------|------|-------|-----|-------|
| Top | | | | | | | | | | |
| Middle | I | IBI | - | Tested | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EG)Date: 12-1-15



ATTACHMENT A

Container No. D37
Waste Stream Solid Waste

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VERONA
Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

50%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>BLK</u> | <u>OPQ</u> | <u>Sol.</u> | |
| Middle | <u>BLK</u> | <u>OPQ</u> | <u>Sol</u> | |
| Bottom | <u>BLK</u> | <u>OPQ</u> | <u>SOL</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | Cor. | Sol. | Cl. | Flam. |
|--------|------------|-----------|----------|----------|------|-------|------|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EQ)

Date: 12-1-15



ATTACHMENT A

Container No. 104
Waste Stream Solid Waste

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUMLocation: SPENCER, VTSamplers: J. G. W.Date: 12-1-15

Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-----------------|------------|----------------|-------------------|
| Top | <u>WH/Brown</u> | <u>CDG</u> | <u>SDG</u> | |
| Middle | <u>/</u> | <u>/</u> | <u>/</u> | |
| Bottom | <u>/</u> | <u>/</u> | <u>/</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Pox. | Oxid. | SM | SM | Cl | Flam. |
|--------|------------|-----------|----------|----------|------|-------|----|----|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>T</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EG)Date: 12-1-15

Bik W90

39



ATTACHMENT A

 collapsed
Bottom up

 Container No. 1240
 Waste Stream Solid Waste

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER Drum Location: SPENCER, VT Samplers: JEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|----------|----------------|-------------------|
| Top | <u>BRN</u> | <u>/</u> | <u>SDRSL</u> | |
| Middle | <u>/</u> | <u>/</u> | <u>SDR</u> | |
| Bottom | <u>/</u> | <u>/</u> | <u>SDR</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid | Cor | Sulf. | Cl- | Flam. |
|--------|------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Top | | | | | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EG)

 Date: 12-1-15



ATTACHMENT A

 Container No. D91
 Waste Stream Solid Metal
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPRINGER DROM Location: SPRINGER, DE Samplers: JEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|--------------------|------------|------------------|-------------------|
| Top | <u>dk. lky BRN</u> | <u>OPQ</u> | <u>LIQ / SDG</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | PS | OXD. | CL | SMF. | CI | Flam. |
|--------|------------|-----------|----------|----------|----|------|----|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EQ) Date: 12-1-15



ATTACHMENT A

 Container No. 1246
 Waste Stream Solid Waste

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VEDLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-----------|------------|----------------|-------------------|
| Top | <u>WH</u> | <u>OPQ</u> | <u>SDR</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | ON | SDR | Cl | Flam. |
|--------|------------|-----------|----------|----------|------|-------|----|-----|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EQ)

 Date: 12-1-15

Red

HM-1, Rev. 3



ATTACHMENT A

Container No. 047
Waste Stream Solid

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Site Name: Spencer Drum Location: Spencer, WI Samplers: UEOLIA
Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | CLR | CLR | SDG | |
| Middle | / | / | Gel like | |
| Bottom | / | / | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | P _{ex} | O _{xi} | CN | S _{ox} | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|-------|-----------------|-----------------|----|-----------------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | I | I | - | Tooth | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EQ)

Date: 12-1-15



ATTACHMENT A

Container No. D48Waste Stream Solid Waste

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUMLocation: SPENCER, VTSamplers: JEOLIADate: 12-1-15

Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

8570

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------------|------------|----------------|-------------------|
| Top | <u>Rust/Gray</u> | <u>OPQ</u> | <u>SDG</u> | |
| Middle | <u>/</u> | <u>/</u> | <u>/</u> | |
| Bottom | <u>/</u> | <u>/</u> | <u>/</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | PS | OX | CN | SD | Cl ⁻ | Flam. |
|--------|------------|-----------|----------|-------------------|---------------|---------------|---------------|---------------|-----------------|----------|
| Top | | | | | | | | | | |
| Middle | <u>I</u> | <u>I</u> | <u>-</u> | <u>Test Thick</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EQ)Date: 12-1-15



ATTACHMENT A

 Container No. D49
 Waste Stream Solid Wm

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, IN Samplers: JEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

100%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------------|------------|----------------|-------------------|
| Top | <u>Gray</u> | <u>OPQ</u> | <u>SDG</u> | |
| Middle | / | / | / | |
| Bottom | / | / | / | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN | Sulf. | Cl | Flam. |
|--------|------------|-----------|----------|----------|------|-------|----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>I</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EQ)

 Date: 12-1-15



ATTACHMENT A

 Container No. D50
 Waste Stream Solid Waste

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: Spencer Dr. Location: Spencer, VT Samplers: J. Quinn
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

80%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|--------------------|-------------------|
| Top | <u>GRB</u> | <u>OPQ</u> | <u>SDG</u> | |
| Middle | | | <u>Grease-like</u> | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid. | CX | Sol. | Cl | Flam. |
|--------|------------|-----------|----------|--------------|-----|-------|----|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>I</u> | <u>I</u> | <u>-</u> | <u>Tooth</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EQ)

 Date: 12-1-15



ATTACHMENT A

no lid
Container No. D59
Waste Stream Solid Neutral

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JOELIA
Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>BRN</u> | <u>CDY</u> | <u>SOL</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque GLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN | Sulf. | Cl | Flam. |
|--------|------------|-----------|----------|----------|------|-------|----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>5</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15



ATTACHMENT A

 Container No. D61
 Waste Stream Solid Waste
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCE DRUM Location: SPENCE, VT Samplers: USOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

100%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | BRN | OPQ | SPE | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Par. | Oxid. | SN | Sulf. | Cl- | Flam. |
|--------|------------|-----------|--------|----|------|-------|----|-------|-----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 8 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

 Container No. D62
 Waste Stream Solid Neutral
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRAIN Location: SPENCER, WI Samplers: VEOLIA
 Date: 12-1-15 Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)
 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good
DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-----------|------------|----------------|-------------------|
| Top | <u>WH</u> | <u>OPQ</u> | <u>SOL</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | P _{ox} | O _{xd} | Q _{st} | S _{lf} | Cl | Flam. |
|--------|------------|-----------|----------|-------------|-----------------|-----------------|-----------------|-----------------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>I</u> | <u>I</u> | <u>-</u> | <u>Rock</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

Container No. D63
Waste Stream Liquid Waste

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Site Name: SPENCER DRAIN Location: SPENCER, WI Samplers: JEONIA
Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

6090

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>BEN</u> | <u>OPQ</u> | <u>SDG/Liq</u> | |
| Middle | <u>/</u> | <u>/</u> | <u>/</u> | |
| Bottom | <u>/</u> | <u>/</u> | <u>/</u> | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per X | Oxid. X | CN X | SOL X | SI X | Flam. |
|--------|------------|-----------|----------|----------|------------------|--------------------|-----------------|------------------|-----------------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: 12-1-15 Date: BD



ATTACHMENT A

 Container No. D64
 Waste Stream Solid Debris

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRAIN Location: SPENCER, VT Samplers: JEOLA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

100%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|---------|---------|----------------|-------------------|
| Top | GRN/BRN | OPQ | SOL | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | P _{ex} | O _{xd} | OX | S_{ox} | Cl | Flam. |
|--------|------------|-----------|--------|----|-----------------|-----------------|---------------|---------------------------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 7 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

Container No. DX
Waste Stream Solid Aqueal

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VEOLIA
Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>BEN</u> | <u>OPQ</u> | <u>SOL</u> | |
| Middle | <u>I</u> | <u>I</u> | <u>I</u> | |
| Bottom | <u>I</u> | <u>I</u> | <u>I</u> | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | OXD. | OX. | Sulf. | Cl. | Flam. |
|--------|------------|-----------|----------|----------|------|------|-----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15

Top Destroyed

3096

Clay 1.k



ATTACHMENT A

Container No. 1775Waste Stream Solid Waste
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION
Site Name: SPENCER DRUMLocation: SPENCER, VTSamplers: JEOLIADate: 12-1-15

Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>BRN</u> | <u>OPQ</u> | <u>SDG</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN | Sulf. | Cl | Flam. |
|--------|------------|-----------|----------|----------|------|-------|----|-------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

Container No. D76
Waste Stream Solid Waste

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, WI Samplers: JEOLIA
Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: close top
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|---------|---------|----------------|-------------------|
| Top | CLR BRN | CLR | SPR | |
| Middle | | | Cell like | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | PS | Oxid | CN | Sol. | Cl | Flam. |
|--------|------------|-----------|--------|-----------|----|------|----|------|----|-------|
| Top | | | | | | | | | | |
| Middle | I | I | - | Too Thick | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15

B L U D G E D Top

100%



ATTACHMENT A

OPEN CONT

 Container No. P10
 Waste Stream Solid Waste

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JOE LIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

| | | | | | |
|------------------|---------------|-------------|-----------------------|------------------|----------------------------------|
| Type: | Drum | Vat | Pit | Tank | |
| Construction: | Steel | <u>Poly</u> | Fiber | Poly-lined | Open-top Closed-top Other: _____ |
| Total Volume: | 85 gal | 55 gal | 30 gal | 10 gal | 5 gal Other: <u>1 gal</u> |
| Waste Volume: | 100% | 75% | 50% | 25% | <25% Empty Other: _____ |
| Field Screening: | OVA/HNu _____ | %LEL _____ | %O ₂ _____ | Rad. Meter _____ | pH _____ |
| Condition: | Poor | Fair | Good | | |

90%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|--------------|------------|----------------|-------------------|
| Top | <u>BROWN</u> | <u>OPQ</u> | <u>SPG</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid. | CM | Sol. | Cl | Flam. |
|--------|------------|-----------|----------|----------|-----|-------|----|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

Amerchol cab
Lot # 198
Blue Dr

Container No. D4
Waste Stream by 12

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: VECHA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: open
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

80% Full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|-----------|----------------|-------------------|
| Top | CLR | CDY | LIQ | 74% |
| Middle | CLR | CDY | LIQ | 4% |
| Bottom | OPQ | Solid/SDG | SOL | 2% |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid. | Cor. | Exp. | Cr | Flam. |
|--------|------------|-----------|--------|----|-----|-------|------|------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 7 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15



ATTACHMENT A

CODE
95129Container No. DS
Waste Stream Log DeckDRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION
 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: J. COLIA
 Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Open
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-----------------|------------|----------------|-------------------|
| Top | <u>pink CLR</u> | <u>CLR</u> | <u>LIQ</u> | |
| Middle | <u>pink CLR</u> | <u>CLR</u> | <u>LIQ</u> | |
| Bottom | <u>pink CLR</u> | <u>CLR</u> | <u>LIQ</u> | |

90%

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CN ⁻ | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|----------|----------|------|-------|-----------------|-------|-----------------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>6</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

Container No. D9
Waste Stream liquid Neutral

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: J. C. C.
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

Turned upside down
1012 in Bottom

10% Full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | SDG | |
| Middle | OPQ | CDY | SDG | |
| Bottom | OPQ | CDY | SDG | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | P _{ex} | O ₂ | CN | S _{ox} | Cl | Flam. |
|--------|------------|-----------|--------|----|-----------------|----------------|----|-----------------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 7 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15

Very Rusty Oil



ATTACHMENT A

Container No. D18
Waste Stream Liquid Detrol

DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VI Samplers: VEOLIA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: _____
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

6690 Fall

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | CLR | CLR | Liq | |
| Middle | OPQ | OPQCDY | Liq | |
| Bottom | OPQ | CDY | Liq | |

Abbreviations :OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Ox. | OX | S&f. | Cl | Flam. |
|--------|------------|-----------|--------|----|------|-----|----|------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD Date: 12-1-15



ATTACHMENT A

 Container No. D15
 Waste Stream hg. Waste
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: J. G. W.
 Date: 11-30-15 Time: _____
DRUM/CONTAINER INFORMATION (circle all that apply)
 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

3070

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | OPQ CLR | Liq | |
| Middle | OPQ | OPQ CLR | Liq | |
| Bottom | OPQ | OPQ CLR | Liq | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | P ₂ | O ₂ | Cl ⁻ | S ₂ | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|----------------|----------------|-----------------|----------------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15



ATTACHMENT A

Dow Glycerin
Green BoxContainer No. 1716
Waste Stream by distDRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATIONSite Name: SPENCER DRUM Location: Spencer, WI Samplers: JOELIA
Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

90%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|----------|---------|----------------|-------------------|
| Top | Blackish | CLR | Liq | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid. | CN | Sol | Cl | Flam. |
|--------|------------|-----------|--------|----|-----|-------|----|-----|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15

Bridge Rd
Blue DR



ATTACHMENT A

Container No. D17
Waste Stream Legacy Drum

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JEOLIA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

4590 Fall

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDG | SDG | |
| Middle | OPQ | CDG | SDG | |
| Bottom | OPQ | CDG | SDG | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | P&C | OxId. | CN | Sol. | Cl | Flam. |
|--------|------------|-----------|--------|----|-----|-------|----|------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 7 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD

Date: 12-1-15



ATTACHMENT A

 Blue
 Container No. D 18
 Waste Stream High Heat

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: Joan
 Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

30% Full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | Liq | |
| Middle | OPQ | CDY | Liq | |
| Bottom | OPQ | CDY | Liq | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | PS | Ox. | Cl | Sol. | Cl | Flam. |
|--------|------------|-----------|--------|----|----|-----|----|------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BDDate: 12-1-15

HM PHOTOGRAPHIC SURFACES

HM-1, Rev. 3



ATTACHMENT A

Container No. D20
Waste Stream Liquid Debit

DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: DELOIA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: OPEN
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

50% Full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | CLR | CLR | LIQ | |
| Middle | OPQ | CDY | SDG | |
| Bottom | OPQ | CDY | SDG | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Pex | Oxm | CN | Sul | Cl | Flam. |
|--------|------------|-----------|--------|----|-----|-----|----|-----|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EQ) Date: 12-1-15



ATTACHMENT A

Green
Soft Soap
Bong Brake Oil = Dr

Container No. D22
Waste Stream by metal

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JOHN
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

9370 Full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | LIQ | |
| Middle | OPQ | CDY | LIQ | |
| Bottom | OPQ | CDY | LIQ | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Ppt. | Oxid. | OX | Sulf. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|------|-------|----|-------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 8 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EQ)

Date: 12-1-15



ATTACHMENT A

 Container No. 1223
 Waste Stream Liquid Waste

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCE DRUM Location: SPENCE, VT Samplers: VERON
 Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

50% Full

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------|------------|----------------|-------------------|
| Top | <u>OPQ</u> | <u>CDY</u> | <u>SDG</u> | |
| Middle | <u>OPQ</u> | <u>CDY</u> | <u>SDG</u> | |
| Bottom | <u>OPQ</u> | <u>CDY</u> | <u>SDG</u> | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Ox | CM | Stf. | Cl | Flam. |
|--------|------------|-----------|----------|----------|-----|----|----|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EO)

 Date: 12-1-15



ATTACHMENT A

 Container No. 125
 Waste Stream kg. Neutral

 DRUM/CONTAINER SAMPLING LOG
 GENERAL INFORMATION

 Site Name: SPENCER Dam Location: SPENCER, WI Samplers: DEOLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum · Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | GRN | CLR | LIQ | |
| Middle | | | SDG | |
| Bottom | | | SDG | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxd. | CN | SDH. | Cl | Flam. |
|--------|------------|-----------|--------|----|-----|------|----|------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 6 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15



ATTACHMENT A

Container No. D26
Waste Stream High Heat

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: J. ELLIS
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

3090

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | Liq | |
| Middle | OPQ | CDY | Liq | |
| Bottom | OPQ | CDY | Liq | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | P _{ex} | O ₂ | PH | Sol. | Cl ⁻ | Flam. |
|--------|------------|-----------|--------|----|-----------------|----------------|----|------|-----------------|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 7 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive - = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EQ)

Date: 12-1-15



ATTACHMENT A

Blue
--- Mineral
Container No. D27
Waste Stream High West

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JOELIA
Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

20% F411

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | Liq | |
| Middle | OPQ | CDY | Liq | |
| Bottom | OPQ | CDY | Liq | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Oxid. | CM | Sol. | Cl | Flam. |
|--------|------------|-----------|--------|----|------|-------|----|------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 8 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EQ)

Date: 12-1-15



ATTACHMENT A

Container No. D30
Waste Stream Hydram

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Site Name: SPENCER DRUM Location: SPENCER, VT Samplers: JEOLIA
Date: _____ Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

Type: Drum Vat Pit Tank
Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
Condition: Poor Fair Good

100%

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | Liq | |
| Middle | OPQ | CDY | Liq | |
| Bottom | OPQ | CDY | Liq | |

Abbreviations : OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Px. | Ox. | CN | Sol. | Cl | Flam. |
|--------|------------|-----------|--------|----|-----|-----|----|------|----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 7 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

Analyst: BD (EG)

Date: 12-1-15



ATTACHMENT A

 Container No. D32
 Waste Stream Leak Water
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: Spencer Dam Location: Spencer, WI Samplers: Deola
 Date: 11-30-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

2570

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|-------|---------|----------------|-------------------|
| Top | OPQ | CDY | SDG | |
| Middle | OPQ | CDY | SDG | |
| Bottom | OPQ | CDY | SDG | |

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per. | Ox. | Ch. | Sol. | Cl. | Flam. |
|--------|------------|-----------|--------|----|------|-----|-----|------|-----|-------|
| Top | | | | | | | | | | |
| Middle | S | I | - | 7 | | | | | - | - |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD (EQ) Date: 12-1-15



ATTACHMENT A

 Container No. D33
 Waste Stream Liquid
DRUM/CONTAINER SAMPLING LOG
GENERAL INFORMATION

 Site Name: SPENCER DRUM Location: SPENCER Samplers: VEROLIA
 Date: 12-1-15 Time: _____

DRUM/CONTAINER INFORMATION (circle all that apply)

 Type: Drum Vat Pit Tank
 Construction: Steel Poly Fiber Poly-lined Open-top Closed-top Other: Closed
 Total Volume: 85 gal 55 gal 30 gal 10 gal 5 gal Other: _____
 Waste Volume: 100% 75% 50% 25% <25% Empty Other: _____
 Field Screening: OVA/HNu _____ %LEL _____ %O₂ _____ Rad. Meter _____ pH _____
 Condition: Poor Fair Good

DRUM/CONTAINER CONTENTS

| Layer | Color | Clarity | Physical State | % of Total Volume |
|--------|------------------|------------|----------------|-------------------|
| Top | <u>Yellow LT</u> | <u>CLR</u> | <u>Liq</u> | |
| Middle | | | | |
| Bottom | | | | |

Abbreviations :OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

| Layer | Water Sol. | Hex. Sol. | React. | pH | Per | Oxid. | CN | Exp. | Cl | Flam. |
|--------|------------|-----------|----------|----------|-----|-------|----|------|----------|----------|
| Top | | | | | | | | | | |
| Middle | <u>S</u> | <u>I</u> | <u>-</u> | <u>7</u> | | | | | <u>-</u> | <u>-</u> |
| Bottom | | | | | | | | | | |

Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier

Reactivity Abbreviations: A = Air Reactive W = Water Reactive -- = No Reaction

Test Results: + = Positive result - = Negative result

 Analyst: BD

 Date: 12-1-15

APPENDIX E
LABORATORY ANALYTICAL REPORTS



December 9, 2015

Environmental Quality Management, Inc.
1800 Carillon Boulevard
Cincinnati, OH 45240-

Work Order No.: 15L0144

Re: 030281.0162 / Spencer Drum / Spencer, WI

Dear Erik Corbin:

Microbac Laboratories, Inc. - Chicagoland Division received 5 sample(s) on 12/2/2015 4:10:00PM for the analyses presented in the following report as Work Order 15L0144.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Robert Crookston, Managing Director, at robert.crookston@microbac.com.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink that reads "Kristen Gehlbach". The signature is fluid and cursive, with the first name "Kristen" and last name "Gehlbach" clearly distinguishable.

Kristen Gehlbach
Senior Project Manager

[Microbac Laboratories, Inc.](http://www.microbac.com)

250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com

**WORK ORDER SAMPLE SUMMARY****Date:** *Wednesday, December 9, 2015*

Client: Environmental Quality Management, Inc.
Project: 030281.0162 / Spencer Drum / Spencer, WI
Lab Order: 15L0144

| Lab Sample ID | Client Sample ID | Tag Number | Collection Date | Date Received |
|---------------|------------------------|------------|------------------|---------------------|
| 15L0144-01 | SD-N+L Liq-120215 | | 12/02/2015 07:30 | 12/2/2015 4:10:00PM |
| 15L0144-02 | SD-N+L Sol-120215 | | 12/02/2015 07:40 | 12/2/2015 4:10:00PM |
| 15L0144-03 | SD-N+L Flam Liq-120215 | | 12/02/2015 07:50 | 12/2/2015 4:10:00PM |
| 15L0144-04 | SD-Flam Sol-120215 | | 12/02/2015 08:00 | 12/2/2015 4:10:00PM |
| 15L0144-05 | SD-Pit-120215 | | 12/01/2015 13:00 | 12/2/2015 4:10:00PM |

Microbac Laboratories, Inc.

250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com

CASE NARRATIVE**Date:** Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Project: 030281.0162 / Spencer Drum / Spencer, WI
Lab Order: 15L0144

Metals

The Laboratory Control Sample failed the acceptance criteria for Selenium. This is considered insignificant, as the bias was high yet the sample concentration was below the reporting limit. This failure affects the following sample:

| <u>Laboratory ID</u> | <u>Sample Name</u> |
|----------------------|--------------------|
| 15L0144-02 | SD-N+L Sol-120215 |

General Chemistry

The Matrix Spike Duplicate performed on the following sample failed the precision criteria for sulfide. The accuracy criteria were met by the Matrix Spike and the Matrix Spike Duplicate. A Post Digestion Spike was analyzed and the acceptance criteria met, indicating interference at the preparation level.

| <u>Laboratory ID</u> | <u>Sample Name</u> |
|----------------------|--------------------|
| 15L0144-02 | SD-N+L Sol-120215 |

VOA

The Laboratory Control Sample and Laboratory Control Sample Duplicate failed the acceptance criteria for chloromethane. This is considered insignificant, as the biases were high yet the sample concentrations were below the reporting limit. These failures affect the following samples.

| <u>Laboratory ID</u> | <u>Sample Name</u> |
|----------------------|------------------------|
| 15L0144-01 | SD-N+L Liq-120215 |
| 15L0144-03 | SD-N+L Flam Liq-120215 |
| 15L0144-05 | SD-Pit-120215 |

At the time of analysis the pHs were greater than 2. This is considered insignificant as the samples were analyzed within the 7 day maximum allowable hold time for Volatile Organics. These failures affect the following samples:

| <u>Laboratory ID</u> | <u>Sample Name</u> |
|----------------------|------------------------|
| 15L0144-01 | SD-N+L Liq-120215 |
| 15L0144-03 | SD-N+L Flam Liq-120215 |
| 15L0144-05 | SD-Pit-120215 |

The following samples required dilutions for the 8260 analyses due to interferences from foaming. Reporting limits have been adjusted to reflect the dilution levels.

| <u>Laboratory ID</u> | <u>Sample Name</u> |
|----------------------|------------------------|
| 15L0144-01 | SD-N+L Liq-120215 |
| 15L0144-02 | SD-N+L Sol-120215 |
| 15L0144-03 | SD-N+L Flam Liq-120215 |

SVOA

The following samples required smaller sample volumes and dilutions for the 8270 analyses. Reporting limits have been adjusted to reflect the dilution levels.

| <u>Laboratory ID</u> | <u>Sample Name</u> |
|----------------------|------------------------|
| 15L0144-01 | SD-N+L Liq-120215 |
| 15L0144-03 | SD-N+L Flam Liq-120215 |

Microbac Laboratories, Inc.



Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-N+L Liq-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-01
Sampled: 12/02/2015 7:30
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|--------------------------------|-----------------------|----|--------|----------------------------------|------|-------|----|------------------|
| Method: SW-846 8270C | | | | Analyst: als | | | | |
| Semivolatile Organic Compounds | Prep Method: 40CFR136 | | | Prep Date/Time: 12/08/2015 12:06 | | | | |
| 1,2,4-Trichlorobenzene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 1,2-Dichlorobenzene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 1,2-Diphenyl-hydrazine | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 1,3-Dichlorobenzene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 1,4-Dichlorobenzene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2,2'-oxybis(1-chloropropane) | m | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2,4,5-Trichlorophenol | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2,4,6-Trichlorophenol | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2,4-Dichlorophenol | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2,4-Dimethylphenol | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2,4-Dinitrophenol | eim | A | ND | 180000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2,4-Dinitrotoluene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2,6-Dichlorophenol | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2,6-Dinitrotoluene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2-Chloronaphthalene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2-Chlorophenol | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2-Methylnaphthalene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2-Methylphenol | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2-Nitroaniline | eim | A | ND | 180000 | | µg/L | 50 | 12/09/2015 13:40 |
| 2-Nitrophenol | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 3,3'-Dichlorobenzidine | eim | A | ND | 180000 | | µg/L | 50 | 12/09/2015 13:40 |
| 3/4-Methylphenol | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 3-Nitroaniline | eim | A | ND | 180000 | | µg/L | 50 | 12/09/2015 13:40 |
| 4,6-Dinitro-2-methylphenol | eim | A | ND | 180000 | | µg/L | 50 | 12/09/2015 13:40 |
| 4-Bromophenyl phenyl ether | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 4-Chloro-3-methylphenol | eim | A | ND | 70000 | | µg/L | 50 | 12/09/2015 13:40 |
| 4-Chloroaniline | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 4-Chlorophenyl phenyl ether | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| 4-Nitroaniline | eim | A | ND | 180000 | | µg/L | 50 | 12/09/2015 13:40 |
| 4-Nitrophenol | eim | A | ND | 180000 | | µg/L | 50 | 12/09/2015 13:40 |
| Acenaphthene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Acenaphthylene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Acetophenone | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Aniline | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Anthracene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Benzidine | eim | A | ND | 180000 | | µg/L | 50 | 12/09/2015 13:40 |
| Benzo[a]anthracene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Benzo[a]pyrene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Benzo[b]fluoranthene | em | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Benzo[g,h,i]perylene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Benzo[k]fluoranthene | em | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Benzoic acid | eim | A | ND | 180000 | | µg/L | 50 | 12/09/2015 13:40 |

Microbac Laboratories, Inc.

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Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-N+L Liq-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-01
Sampled: 12/02/2015 7:30
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|--|-------|----|--------|----------|------|-------|----|------------------|
| Method: SW-846 8270C Analyst: als | | | | | | | | |
| Prep Method: 40CFR136 Prep Date/Time: 12/08/2015 12:06 | | | | | | | | |
| Semivolatile Organic Compounds | | | | | | | | |
| Benzyl alcohol | eim | A | 66000 | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Bis(2-chloroethoxy)methane | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Bis(2-chloroethyl)ether | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Bis(2-ethylhexyl)phthalate | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Butyl benzyl phthalate | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Carbazole | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Chrysene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Dibenz[a,h]anthracene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Dibenzofuran | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Diethyl phthalate | eim | A | 84000 | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Dimethyl phthalate | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Di-n-butyl phthalate | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Di-n-octyl phthalate | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Fluoranthene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Fluorene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Hexachlorobenzene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Hexachlorobutadiene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Hexachlorocyclopentadiene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Hexachloroethane | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Indeno[1,2,3cd]pyrene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Isophorone | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Naphthalene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Nitrobenzene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| N-Nitrosodimethylamine | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| N-Nitrosodi-n-propylamine | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| N-Nitrosodiphenylamine | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Pentachlorophenol | eim | A | ND | 180000 | | µg/L | 50 | 12/09/2015 13:40 |
| Phenanthrene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Phenol | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Pyrene | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Pyridine | eim | A | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Total Cresol | eim | M | ND | 35000 | | µg/L | 50 | 12/09/2015 13:40 |
| Surr: 2,4,6-Tribromophenol | | S | 67.7 | 47.8-138 | | %REC | 50 | 12/09/2015 13:40 |
| Surr: 2-Fluorobiphenyl | | S | 45.5 | 10-110 | | %REC | 50 | 12/09/2015 13:40 |
| Surr: 2-Fluorophenol | | S | 42.0 | 10-110 | | %REC | 50 | 12/09/2015 13:40 |
| Surr: Nitrobenzene-d5 | | S | 70.0 | 10-110 | | %REC | 50 | 12/09/2015 13:40 |
| Surr: Phenol-d5 | | S | 35.0 | 10-60.8 | | %REC | 50 | 12/09/2015 13:40 |
| Surr: Terphenyl-d14 | | S | 29.8 | 16.8-110 | | %REC | 50 | 12/09/2015 13:40 |

Method: SW-846 8260B

Analyst: jln

Volatile Organic Compounds

Prep Date/Time: 12/08/2015 09:34

| | | | | | | | | |
|---------------------------|-----|---|----|-------|--|------|------|------------------|
| 1,1,1,2-Tetrachloroethane | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
|---------------------------|-----|---|----|-------|--|------|------|------------------|

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Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-N+L Liq-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-01
Sampled: 12/02/2015 7:30
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|----------------------------|-------|----|--------|----------------------------------|------|-------|------|------------------|
| Method: SW-846 8260B | | | | Analyst: jln | | | | |
| Volatile Organic Compounds | | | | Prep Date/Time: 12/08/2015 09:34 | | | | |
| 1,1,1-Trichloroethane | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| 1,1,2,2-Tetrachloroethane | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| 1,1,2-Trichloroethane | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| 1,1-Dichloroethane | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| 1,1-Dichloroethene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| 1,2-Dichloroethane | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| 1,2-Dichloropropane | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| 2-Butanone | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
| 2-Hexanone | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
| 4-Methyl-2-Pentanone | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Acetone | eim | A | ND | 50000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Acrolein | eim | A | ND | 100000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Acrylonitrile | eim | A | ND | 100000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Benzene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Bromodichloromethane | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Bromoform | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Bromomethane | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Carbon Disulfide | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Carbon tetrachloride | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Chlorobenzene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Chloroethane | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Chloroform | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Chloromethane | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
| cis-1,2-Dichloroethene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| cis-1,3-Dichloropropene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Dibromochloromethane | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Ethylbenzene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| m,p-Xylene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Methylene chloride | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Methyl-t-Butyl Ether | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| o-Xylene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Styrene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Tetrachloroethene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Toluene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| trans-1,2-Dichloroethene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| trans-1,3-Dichloropropene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Trichloroethene | eim | A | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Trichlorofluoromethane | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Vinyl Acetate | eim | A | ND | 10000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Vinyl chloride | eim | A | ND | 2000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Total 1,2-Dichloroethene | m | M | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |
| Total Xylenes | eim | M | ND | 5000 | | µg/L | 1000 | 12/08/2015 15:27 |

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Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-N+L Liq-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-01
Sampled: 12/02/2015 7:30
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|----------|-------|----|--------|----|------|-------|----|----------|
|----------|-------|----|--------|----|------|-------|----|----------|

Method: SW-846 8260B

Analyst: jln

Prep Date/Time: 12/08/2015 09:34

Volatile Organic Compounds

| | | | | | | | | |
|-----------------------------|--|---|------|----------|--|------|------|------------------|
| Surr: 1,2-Dichloroethane-d4 | | S | 81.5 | 74.5-132 | | %REC | 1000 | 12/08/2015 15:27 |
| Surr: 4-Bromofluorobenzene | | S | 99.2 | 80-120 | | %REC | 1000 | 12/08/2015 15:27 |
| Surr: Dibromofluoromethane | | S | 91.0 | 80-120 | | %REC | 1000 | 12/08/2015 15:27 |
| Surr: Toluene-d8 | | S | 107 | 80-120 | | %REC | 1000 | 12/08/2015 15:27 |

Method: SW-846 6010C

Analyst: SE

Prep Date/Time: 12/03/2015 08:52

Total Metals by ICP

Prep Method: SW846 3005A

| | | | | | | | | |
|----------|-----|---|-------|-------|--|------|---|------------------|
| Arsenic | eim | A | ND | 0.10 | | mg/L | 1 | 12/03/2015 19:53 |
| Barium | eim | A | 0.055 | 0.020 | | mg/L | 1 | 12/03/2015 19:53 |
| Cadmium | eim | A | ND | 0.020 | | mg/L | 1 | 12/03/2015 19:53 |
| Chromium | eim | A | 0.081 | 0.030 | | mg/L | 1 | 12/03/2015 19:53 |
| Lead | eim | A | 0.22 | 0.075 | | mg/L | 1 | 12/03/2015 19:53 |
| Selenium | eim | A | ND | 0.30 | | mg/L | 1 | 12/03/2015 19:53 |
| Silver | eim | A | ND | 0.10 | | mg/L | 1 | 12/03/2015 19:53 |

Method: SW-846 7470A

Analyst: SA

Prep Date/Time: 12/03/2015 09:17

Total Mercury by CVAA

Prep Method: SW-846 7470

| | | | | | | | | |
|---------|-----|---|----|---------|--|------|---|------------------|
| Mercury | eim | A | ND | 0.00020 | | mg/L | 1 | 12/03/2015 13:39 |
|---------|-----|---|----|---------|--|------|---|------------------|

Method: SW-846 9012B

Analyst: GRIEF

Prep Date/Time: 12/09/2015 10:00

Total Cyanide

Prep Method: Aqueous CN Distillation

| | | | | | | | | |
|----------------|----|---|----|-------|--|------|---|------------------|
| Cyanide, Total | ei | A | ND | 0.050 | | mg/L | 1 | 12/09/2015 13:01 |
|----------------|----|---|----|-------|--|------|---|------------------|

Method: SW-846 1010A

Analyst: EB

Prep Date/Time: 12/07/2015 13:20

Ignitability (Closed Cup)

| | | | | | | | | |
|--------------|-----|---|-------|----|--|----|---|------------------|
| Ignitability | eim | A | > 170 | 30 | | °F | 1 | 12/07/2015 13:20 |
|--------------|-----|---|-------|----|--|----|---|------------------|

Method: SW-846 9045D

Analyst: EB

Prep Date/Time: 12/09/2015 13:50

pH

| | | | | | | | | |
|----|-----|---|------|------|---|------------|---|------------------|
| pH | eim | A | 7.56 | 2.00 | H | pH at 25°C | 1 | 12/09/2015 13:50 |
|----|-----|---|------|------|---|------------|---|------------------|

Method: SM 4500-S2 D-2000

Analyst: EB

Prep Date/Time: 12/08/2015 10:10

Total Sulfide

Prep Method: Sulfide Distillation

| | | | | | | | | |
|---------|---|---|-----|------|--|------|---|------------------|
| Sulfide | m | A | 1.8 | 0.50 | | mg/L | 1 | 12/08/2015 17:10 |
|---------|---|---|-----|------|--|------|---|------------------|

Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
 Client Project: 030281.0162 / Spencer Drum / Spencer, WI
 Client Sample ID: SD-N+L Sol-120215
 Sample Description:
 Matrix: Solid

Work Order/ID: 15L0144-02
 Sampled: 12/02/2015 7:40
 Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|----------|-------|----|--------|----|------|-------|----|----------|
|----------|-------|----|--------|----|------|-------|----|----------|

| Method: 1311/8270C | | | | | | Analyst: als | | |
|-------------------------------------|-----|---|-------------------------------------|----------|--|----------------------------------|---|------------------|
| TCLP Semivolatile Organic Compounds | | | Prep Method: SW-846 1311/SW846 3510 | | | Prep Date/Time: 12/04/2015 08:31 | | |
| 2,4,5-Trichlorophenol | eim | A | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| 2,4,6-Trichlorophenol | eim | A | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| 2,4-Dinitrotoluene | eim | A | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| 2-Methylphenol | eim | A | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| 3/4-Methylphenol | eim | A | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| Hexachlorobenzene | eim | A | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| Hexachlorobutadiene | eim | A | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| Hexachloroethane | eim | A | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| Nitrobenzene | eim | A | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| Pentachlorophenol | eim | A | ND | 4.2 | | mg/L | 1 | 12/07/2015 11:00 |
| Pyridine | eim | A | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| Total Cresol | eim | M | ND | 0.85 | | mg/L | 1 | 12/07/2015 11:00 |
| Surr: 2,4,6-Tribromophenol | | S | 119 | 47.8-138 | | %REC | 1 | 12/07/2015 11:00 |
| Surr: 2-Fluorobiphenyl | | S | 67.7 | 10-110 | | %REC | 1 | 12/07/2015 11:00 |
| Surr: 2-Fluorophenol | | S | 78.1 | 10-110 | | %REC | 1 | 12/07/2015 11:00 |
| Surr: Nitrobenzene-d5 | | S | 65.9 | 10-110 | | %REC | 1 | 12/07/2015 11:00 |
| Surr: Phenol-d5 | | S | 82.7 | 43.7-126 | | %REC | 1 | 12/07/2015 11:00 |
| Surr: Terphenyl-d14 | | S | 77.7 | 33.7-136 | | %REC | 1 | 12/07/2015 11:00 |

| TCLP VOA Zero Head Extraction | | | Method: 1311/8260B | | | | Analyst:jln | |
|-------------------------------|-----|---|-----------------------------------|----------|--|------|---------------------------------|------------------|
| | | | Prep Method: SW-846 1311/<noprep> | | | | Prep Date/Time:12/07/2015 08:53 | |
| 1,1-Dichloroethene | eim | A | ND | 2.5 | | mg/L | 500 | 12/07/2015 15:27 |
| 1,2-Dichloroethane | eim | A | ND | 2.5 | | mg/L | 500 | 12/07/2015 15:27 |
| 2-Butanone | eim | A | ND | 5.0 | | mg/L | 500 | 12/07/2015 15:27 |
| Benzene | eim | A | ND | 5.0 | | mg/L | 500 | 12/07/2015 15:27 |
| Carbon tetrachloride | eim | A | ND | 2.5 | | mg/L | 500 | 12/07/2015 15:27 |
| Chlorobenzene | eim | A | ND | 2.5 | | mg/L | 500 | 12/07/2015 15:27 |
| Chloroform | eim | A | ND | 2.5 | | mg/L | 500 | 12/07/2015 15:27 |
| Tetrachloroethene | eim | A | ND | 2.5 | | mg/L | 500 | 12/07/2015 15:27 |
| Trichloroethene | eim | A | ND | 2.5 | | mg/L | 500 | 12/07/2015 15:27 |
| Vinyl chloride | eim | A | ND | 1.0 | | mg/L | 500 | 12/07/2015 15:27 |
| 1,4-Dichlorobenzene | eim | B | ND | 5.0 | | mg/L | 500 | 12/07/2015 15:27 |
| Surr: 1,2-Dichloroethane-d4 | | S | 96.0 | 74.5-132 | | %REC | 500 | 12/07/2015 15:27 |
| Surr: 4-Bromofluorobenzene | | S | 98.5 | 80-120 | | %REC | 500 | 12/07/2015 15:27 |
| Surr: Dibromofluoromethane | | S | 95.8 | 80-120 | | %REC | 500 | 12/07/2015 15:27 |
| Surr: Toluene-d8 | | S | 93.4 | 80-120 | | %REC | 500 | 12/07/2015 15:27 |

| | | | | | | | | |
|--------------------------------------|-----|---|----|--------|--|----------------------------------|---|------------------|
| Method: 1311/7470A | | | | | | Analyst: SA | | |
| Prep Method: SW-846 1311/SW-846 7470 | | | | | | Prep Date/Time: 12/09/2015 14:30 | | |
| TCLP Mercury by CVAA | | | | | | | | |
| Mercury | eim | A | ND | 0.0050 | | mg/L | 1 | 12/09/2015 16:36 |

Method: 1311/6010C

Analyst: SE

TCLP Metals by ICP

Prep Method: SW-846 1311/SW846 3005A

Prep Date/Time: 12/04/2015 08:58

| | | | | | | | | |
|---------|-----|---|----|--------|--|------|---|------------------|
| Arsenic | eim | A | ND | 0.0100 | | mg/L | 1 | 12/04/2015 16:33 |
|---------|-----|---|----|--------|--|------|---|------------------|

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Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-N+L Sol-120215
Sample Description:
Matrix: Solid

Work Order/ID: 15L0144-02
Sampled: 12/02/2015 7:40
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|--|-------|----|---------|---------|------|------------|----|------------------|
| Method: 1311/6010C Analyst: SE Prep Method: SW-846 1311/SW846 3005A Prep Date/Time: 12/04/2015 08:58 | | | | | | | | |
| TCLP Metals by ICP | | | | | | | | |
| Barium | eim | A | ND | 0.500 | | mg/L | 1 | 12/04/2015 16:33 |
| Cadmium | eim | A | ND | 0.00200 | | mg/L | 1 | 12/04/2015 16:33 |
| Chromium | eim | A | 0.00580 | 0.00300 | | mg/L | 1 | 12/04/2015 16:33 |
| Lead | eim | A | ND | 0.00750 | | mg/L | 1 | 12/04/2015 16:33 |
| Selenium | eim | A | ND | 0.0300 | | mg/L | 1 | 12/04/2015 16:33 |
| Silver | eim | A | ND | 0.0100 | | mg/L | 1 | 12/04/2015 16:33 |
| Method: SW-846 9012B Analyst: GRIEF Prep Method: Solid CN Distillation Prep Date/Time: 12/03/2015 11:35 | | | | | | | | |
| Total Cyanide | | | | | | | | |
| Cyanide, Total | ei | A | 1.5 | 0.23 | | mg/Kg | 1 | 12/07/2015 14:38 |
| Method: ASTM D92-90 MOD Analyst: EB Prep Date/Time: 12/07/2015 14:20 | | | | | | | | |
| Ignitability (Open Cup) | | | | | | | | |
| Ignitability | | A | > 170 | 30 | | °F | 1 | 12/07/2015 14:20 |
| Method: SW-846 9045D Analyst: EB Prep Date/Time: 12/09/2015 13:50 | | | | | | | | |
| pH | | | | | | | | |
| pH | eim | A | 7.68 | 2.00 | | pH at 25°C | 1 | 12/09/2015 13:50 |
| Method: SW-846 9030B MOD Analyst: EB Prep Method: Sulfide Distillation Prep Date/Time: 12/08/2015 10:10 | | | | | | | | |
| Total Sulfide | | | | | | | | |
| Sulfide | e | A | 6.1 | 2.4 | | mg/Kg | 1 | 12/08/2015 17:10 |

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Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-N+L Flam Liq-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-03
Sampled: 12/02/2015 7:50
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|--------------------------------|-----------------------|----|--------|----------------------------------|------|-------|----|------------------|
| Method: SW-846 8270C | | | | Analyst: als | | | | |
| Semivolatile Organic Compounds | Prep Method: 40CFR136 | | | Prep Date/Time: 12/08/2015 12:06 | | | | |
| 1,2,4-Trichlorobenzene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 1,2-Dichlorobenzene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 1,2-Diphenyl-hydrazine | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 1,3-Dichlorobenzene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 1,4-Dichlorobenzene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2,2'-oxybis(1-chloropropane) | m | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2,4,5-Trichlorophenol | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2,4,6-Trichlorophenol | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2,4-Dichlorophenol | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2,4-Dimethylphenol | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2,4-Dinitrophenol | eim | A | ND | 500000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2,4-Dinitrotoluene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2,6-Dichlorophenol | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2,6-Dinitrotoluene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2-Chloronaphthalene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2-Chlorophenol | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2-Methylnaphthalene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2-Methylphenol | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2-Nitroaniline | eim | A | ND | 500000 | | µg/L | 50 | 12/09/2015 14:01 |
| 2-Nitrophenol | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 3,3'-Dichlorobenzidine | eim | A | ND | 500000 | | µg/L | 50 | 12/09/2015 14:01 |
| 3/4-Methylphenol | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 3-Nitroaniline | eim | A | ND | 500000 | | µg/L | 50 | 12/09/2015 14:01 |
| 4,6-Dinitro-2-methylphenol | eim | A | ND | 500000 | | µg/L | 50 | 12/09/2015 14:01 |
| 4-Bromophenyl phenyl ether | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 4-Chloro-3-methylphenol | eim | A | ND | 200000 | | µg/L | 50 | 12/09/2015 14:01 |
| 4-Chloroaniline | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 4-Chlorophenyl phenyl ether | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| 4-Nitroaniline | eim | A | ND | 500000 | | µg/L | 50 | 12/09/2015 14:01 |
| 4-Nitrophenol | eim | A | ND | 500000 | | µg/L | 50 | 12/09/2015 14:01 |
| Acenaphthene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Acenaphthylene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Acetophenone | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Aniline | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Anthracene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Benzidine | eim | A | ND | 500000 | | µg/L | 50 | 12/09/2015 14:01 |
| Benzo[a]anthracene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Benzo[a]pyrene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Benzo[b]fluoranthene | em | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Benzo[g,h,i]perylene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Benzo[k]fluoranthene | em | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Benzoic acid | eim | A | ND | 500000 | | µg/L | 50 | 12/09/2015 14:01 |

Microbac Laboratories, Inc.



Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-N+L Flam Liq-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-03
Sampled: 12/02/2015 7:50
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|--|-------|----|--------|----------|------|-------|----|------------------|
| Method: SW-846 8270C Analyst: als | | | | | | | | |
| Prep Method: 40CFR136 Prep Date/Time: 12/08/2015 12:06 | | | | | | | | |
| Semivolatile Organic Compounds | | | | | | | | |
| Benzyl alcohol | eim | A | 130000 | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Bis(2-chloroethoxy)methane | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Bis(2-chloroethyl)ether | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Bis(2-ethylhexyl)phthalate | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Butyl benzyl phthalate | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Carbazole | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Chrysene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Dibenz[a,h]anthracene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Dibenzofuran | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Diethyl phthalate | eim | A | 250000 | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Dimethyl phthalate | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Di-n-butyl phthalate | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Di-n-octyl phthalate | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Fluoranthene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Fluorene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Hexachlorobenzene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Hexachlorobutadiene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Hexachlorocyclopentadiene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Hexachloroethane | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Indeno[1,2,3cd]pyrene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Isophorone | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Naphthalene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Nitrobenzene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| N-Nitrosodimethylamine | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| N-Nitrosodi-n-propylamine | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| N-Nitrosodiphenylamine | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Pentachlorophenol | eim | A | ND | 500000 | | µg/L | 50 | 12/09/2015 14:01 |
| Phenanthrene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Phenol | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Pyrene | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Pyridine | eim | A | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Total Cresol | eim | M | ND | 100000 | | µg/L | 50 | 12/09/2015 14:01 |
| Surr: 2,4,6-Tribromophenol | | S | 107 | 47.8-138 | | %REC | 50 | 12/09/2015 14:01 |
| Surr: 2-Fluorobiphenyl | | S | 90.0 | 10-110 | | %REC | 50 | 12/09/2015 14:01 |
| Surr: 2-Fluorophenol | | S | 53.3 | 10-110 | | %REC | 50 | 12/09/2015 14:01 |
| Surr: Nitrobenzene-d5 | | S | 440 | 10-110 | S | %REC | 50 | 12/09/2015 14:01 |
| Surr: Phenol-d5 | | S | 53.3 | 10-60.8 | | %REC | 50 | 12/09/2015 14:01 |
| Surr: Terphenyl-d14 | | S | 85.0 | 16.8-110 | | %REC | 50 | 12/09/2015 14:01 |

Method: SW-846 8260B

Analyst: jln

Volatile Organic Compounds

Prep Date/Time: 12/08/2015 09:34

| | | | | | | | | |
|---------------------------|-----|---|----|------|--|------|-----|------------------|
| 1,1,1,2-Tetrachloroethane | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
|---------------------------|-----|---|----|------|--|------|-----|------------------|

Microbac Laboratories, Inc.

250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-N+L Flam Liq-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-03
Sampled: 12/02/2015 7:50
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|----------------------------|-------|----|--------|----------------------------------|------|-------|-----|------------------|
| Method: SW-846 8260B | | | | Analyst: jln | | | | |
| Volatile Organic Compounds | | | | Prep Date/Time: 12/08/2015 09:34 | | | | |
| 1,1,1-Trichloroethane | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| 1,1,2,2-Tetrachloroethane | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| 1,1,2-Trichloroethane | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| 1,1-Dichloroethane | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| 1,1-Dichloroethene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| 1,2-Dichloroethane | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| 1,2-Dichloropropane | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| 2-Butanone | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
| 2-Hexanone | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
| 4-Methyl-2-Pentanone | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
| Acetone | eim | A | ND | 25000 | | µg/L | 500 | 12/08/2015 15:07 |
| Acrolein | eim | A | ND | 50000 | | µg/L | 500 | 12/08/2015 15:07 |
| Acrylonitrile | eim | A | ND | 50000 | | µg/L | 500 | 12/08/2015 15:07 |
| Benzene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Bromodichloromethane | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Bromoform | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Bromomethane | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
| Carbon Disulfide | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
| Carbon tetrachloride | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Chlorobenzene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Chloroethane | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
| Chloroform | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Chloromethane | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
| cis-1,2-Dichloroethene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| cis-1,3-Dichloropropene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Dibromochloromethane | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Ethylbenzene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| m,p-Xylene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Methylene chloride | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
| Methyl-t-Butyl Ether | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| o-Xylene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Styrene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Tetrachloroethene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Toluene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| trans-1,2-Dichloroethene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| trans-1,3-Dichloropropene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Trichloroethene | eim | A | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Trichlorofluoromethane | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
| Vinyl Acetate | eim | A | ND | 5000 | | µg/L | 500 | 12/08/2015 15:07 |
| Vinyl chloride | eim | A | ND | 1000 | | µg/L | 500 | 12/08/2015 15:07 |
| Total 1,2-Dichloroethene | m | M | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |
| Total Xylenes | eim | M | ND | 2500 | | µg/L | 500 | 12/08/2015 15:07 |

Microbac Laboratories, Inc.

Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-N+L Flam Liq-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-03
Sampled: 12/02/2015 7:50
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|----------|-------|----|--------|----|------|-------|----|----------|
|----------|-------|----|--------|----|------|-------|----|----------|

Method: SW-846 8260B

Analyst: jln

Prep Date/Time: 12/08/2015 09:34

Volatile Organic Compounds

| | | | | | | | | |
|-----------------------------|--|---|------|----------|--|------|-----|------------------|
| Surr: 1,2-Dichloroethane-d4 | | S | 97.1 | 74.5-132 | | %REC | 500 | 12/08/2015 15:07 |
| Surr: 4-Bromofluorobenzene | | S | 99.4 | 80-120 | | %REC | 500 | 12/08/2015 15:07 |
| Surr: Dibromofluoromethane | | S | 95.0 | 80-120 | | %REC | 500 | 12/08/2015 15:07 |
| Surr: Toluene-d8 | | S | 104 | 80-120 | | %REC | 500 | 12/08/2015 15:07 |

Method: SW-846 6010C

Analyst: SE

Prep Date/Time: 12/03/2015 08:52

Total Metals by ICP

Prep Method: SW846 3005A

| | | | | | | | | |
|----------|-----|---|----|-------|--|------|---|------------------|
| Arsenic | eim | A | ND | 0.10 | | mg/L | 1 | 12/03/2015 19:59 |
| Barium | eim | A | ND | 0.020 | | mg/L | 1 | 12/03/2015 19:59 |
| Cadmium | eim | A | ND | 0.020 | | mg/L | 1 | 12/03/2015 19:59 |
| Chromium | eim | A | ND | 0.030 | | mg/L | 1 | 12/03/2015 19:59 |
| Lead | eim | A | ND | 0.075 | | mg/L | 1 | 12/03/2015 19:59 |
| Selenium | eim | A | ND | 0.30 | | mg/L | 1 | 12/03/2015 19:59 |
| Silver | eim | A | ND | 0.10 | | mg/L | 1 | 12/03/2015 19:59 |

Method: SW-846 7470A

Analyst: SA

Prep Date/Time: 12/03/2015 09:17

Total Mercury by CVAA

Prep Method: SW-846 7470

| | | | | | | | | |
|---------|-----|---|----|---------|--|------|---|------------------|
| Mercury | eim | A | ND | 0.00020 | | mg/L | 1 | 12/03/2015 13:40 |
|---------|-----|---|----|---------|--|------|---|------------------|

Method: SW-846 9012B

Analyst: GRIEF

Prep Date/Time: 12/09/2015 10:00

Total Cyanide

Prep Method: Aqueous CN Distillation

| | | | | | | | | |
|----------------|----|---|----|-------|--|------|---|------------------|
| Cyanide, Total | ei | A | ND | 0.050 | | mg/L | 1 | 12/09/2015 13:02 |
|----------------|----|---|----|-------|--|------|---|------------------|

Method: SW-846 1010A

Analyst: EB

Prep Date/Time: 12/07/2015 14:20

Ignitability (Closed Cup)

| | | | | | | | | |
|--------------|-----|---|-------|----|--|----|---|------------------|
| Ignitability | eim | A | > 170 | 30 | | °F | 1 | 12/07/2015 14:20 |
|--------------|-----|---|-------|----|--|----|---|------------------|

Method: SW-846 9045D

Analyst: EB

Prep Date/Time: 12/09/2015 13:50

pH

| | | | | | | | | |
|----|-----|---|------|------|---|------------|---|------------------|
| pH | eim | A | 7.47 | 2.00 | H | pH at 25°C | 1 | 12/09/2015 13:50 |
|----|-----|---|------|------|---|------------|---|------------------|

Method: SM 4500-S2 D-2000

Analyst: EB

Prep Date/Time: 12/08/2015 10:10

Total Sulfide

Prep Method: Sulfide Distillation

| | | | | | | | | |
|---------|---|---|-----|------|--|------|---|------------------|
| Sulfide | m | A | 1.3 | 0.50 | | mg/L | 1 | 12/08/2015 17:10 |
|---------|---|---|-----|------|--|------|---|------------------|

Analytical Results

Date: Wednesday, December 9, 2015

| | | | |
|----------------------------|--|-----------------------|------------------|
| Client: | Environmental Quality Management, Inc. | Work Order/ID: | 15L0144-04 |
| Client Project: | 030281.0162 / Spencer Drum / Spencer, WI | Sampled: | 12/02/2015 8:00 |
| Client Sample ID: | SD-Flam Sol-120215 | Received: | 12/02/2015 16:10 |
| Sample Description: | | | |
| Matrix: | Solid | | |

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|-------------------------|-------|----|--------|----------------------------------|------|-------|----|------------------|
| Method: ASTM D92-90 MOD | | | | Analyst: EB | | | | |
| Ignitability (Open Cup) | | | | Prep Date/Time: 12/07/2015 15:30 | | | | |
| Ignitability | | A | > 170 | 30 | | °F | 1 | 12/07/2015 15:30 |

Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-Pit-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-05
Sampled: 12/01/2015 13:00
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|--------------------------------|-----------------------|----|--------|----------------------------------|------|-------|----|------------------|
| Method: SW-846 8270C | | | | Analyst: als | | | | |
| Semivolatile Organic Compounds | Prep Method: 40CFR136 | | | Prep Date/Time: 12/08/2015 12:06 | | | | |
| 1,2,4-Trichlorobenzene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 1,2-Dichlorobenzene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 1,2-Diphenyl-hydrazine | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 1,3-Dichlorobenzene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 1,4-Dichlorobenzene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2,2'-oxybis(1-chloropropane) | m | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2,4,5-Trichlorophenol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2,4,6-Trichlorophenol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2,4-Dichlorophenol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2,4-Dimethylphenol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2,4-Dinitrophenol | eim | A | ND | 1000 | | µg/L | 1 | 12/09/2015 14:23 |
| 2,4-Dinitrotoluene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2,6-Dichlorophenol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2,6-Dinitrotoluene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2-Chloronaphthalene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2-Chlorophenol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2-Methylnaphthalene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2-Methylphenol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 2-Nitroaniline | eim | A | ND | 1000 | | µg/L | 1 | 12/09/2015 14:23 |
| 2-Nitrophenol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 3,3'-Dichlorobenzidine | eim | A | ND | 1000 | | µg/L | 1 | 12/09/2015 14:23 |
| 3/4-Methylphenol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 3-Nitroaniline | eim | A | ND | 1000 | | µg/L | 1 | 12/09/2015 14:23 |
| 4,6-Dinitro-2-methylphenol | eim | A | ND | 1000 | | µg/L | 1 | 12/09/2015 14:23 |
| 4-Bromophenyl phenyl ether | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 4-Chloro-3-methylphenol | eim | A | ND | 400 | | µg/L | 1 | 12/09/2015 14:23 |
| 4-Chloroaniline | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 4-Chlorophenyl phenyl ether | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| 4-Nitroaniline | eim | A | ND | 1000 | | µg/L | 1 | 12/09/2015 14:23 |
| 4-Nitrophenol | eim | A | ND | 1000 | | µg/L | 1 | 12/09/2015 14:23 |
| Acenaphthene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Acenaphthylene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Acetophenone | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Aniline | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Anthracene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Benzidine | eim | A | ND | 1000 | | µg/L | 1 | 12/09/2015 14:23 |
| Benzo[a]anthracene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Benzo[a]pyrene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Benzo[b]fluoranthene | em | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Benzo[g,h,i]perylene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Benzo[k]fluoranthene | em | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Benzoic acid | eim | A | ND | 1000 | | µg/L | 1 | 12/09/2015 14:23 |

Microbac Laboratories, Inc.

Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
 Client Project: 030281.0162 / Spencer Drum / Spencer, WI
 Client Sample ID: SD-Pit-120215
 Sample Description:
 Matrix: Aqueous

Work Order/ID: 15L0144-05
 Sampled: 12/01/2015 13:00
 Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|--|-------|----|--------|----------|------|-------|----|------------------|
| Method: SW-846 8270C Analyst: als | | | | | | | | |
| Prep Method: 40CFR136 Prep Date/Time: 12/08/2015 12:06 | | | | | | | | |
| Semivolatile Organic Compounds | | | | | | | | |
| Benzyl alcohol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Bis(2-chloroethoxy)methane | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Bis(2-chloroethyl)ether | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Bis(2-ethylhexyl)phthalate | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Butyl benzyl phthalate | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Carbazole | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Chrysene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Dibenz[a,h]anthracene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Dibenzofuran | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Diethyl phthalate | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Dimethyl phthalate | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Di-n-butyl phthalate | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Di-n-octyl phthalate | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Fluoranthene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Fluorene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Hexachlorobenzene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Hexachlorobutadiene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Hexachlorocyclopentadiene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Hexachloroethane | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Indeno[1,2,3cd]pyrene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Isophorone | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Naphthalene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Nitrobenzene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| N-Nitrosodimethylamine | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| N-Nitrosodi-n-propylamine | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| N-Nitrosodiphenylamine | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Pentachlorophenol | eim | A | ND | 1000 | | µg/L | 1 | 12/09/2015 14:23 |
| Phenanthrene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Phenol | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Pyrene | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Pyridine | eim | A | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Total Cresol | eim | M | ND | 200 | | µg/L | 1 | 12/09/2015 14:23 |
| Surr: 2,4,6-Tribromophenol | | S | 98.4 | 47.8-138 | | %REC | 1 | 12/09/2015 14:23 |
| Surr: 2-Fluorobiphenyl | | S | 59.0 | 10-110 | | %REC | 1 | 12/09/2015 14:23 |
| Surr: 2-Fluorophenol | | S | 45.3 | 10-110 | | %REC | 1 | 12/09/2015 14:23 |
| Surr: Nitrobenzene-d5 | | S | 62.9 | 10-110 | | %REC | 1 | 12/09/2015 14:23 |
| Surr: Phenol-d5 | | S | 34.7 | 10-60.8 | | %REC | 1 | 12/09/2015 14:23 |
| Surr: Terphenyl-d14 | | S | 58.5 | 16.8-110 | | %REC | 1 | 12/09/2015 14:23 |

Method: SW-846 8260B

Analyst: jln

Volatile Organic Compounds

Prep Date/Time: 12/08/2015 09:34

| | | | | | | | | |
|---------------------------|-----|---|----|----|--|------|---|------------------|
| 1,1,1,2-Tetrachloroethane | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
|---------------------------|-----|---|----|----|--|------|---|------------------|

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Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-Pit-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-05
Sampled: 12/01/2015 13:00
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|----------------------------|-------|----|--------|----------------------------------|------|-------|----|------------------|
| Method: SW-846 8260B | | | | Analyst: jln | | | | |
| Volatile Organic Compounds | | | | Prep Date/Time: 12/08/2015 09:34 | | | | |
| 1,1,1-Trichloroethane | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| 1,1,2,2-Tetrachloroethane | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| 1,1,2-Trichloroethane | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| 1,1-Dichloroethane | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| 1,1-Dichloroethene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| 1,2-Dichloroethane | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| 1,2-Dichloropropane | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| 2-Butanone | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
| 2-Hexanone | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
| 4-Methyl-2-Pentanone | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
| Acetone | eim | A | ND | 50 | | µg/L | 1 | 12/08/2015 14:26 |
| Acrolein | eim | A | ND | 100 | | µg/L | 1 | 12/08/2015 14:26 |
| Acrylonitrile | eim | A | ND | 100 | | µg/L | 1 | 12/08/2015 14:26 |
| Benzene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Bromodichloromethane | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Bromoform | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Bromomethane | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
| Carbon Disulfide | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
| Carbon tetrachloride | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Chlorobenzene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Chloroethane | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
| Chloroform | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Chloromethane | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
| cis-1,2-Dichloroethene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| cis-1,3-Dichloropropene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Dibromochloromethane | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Ethylbenzene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| m,p-Xylene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Methylene chloride | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
| Methyl-t-Butyl Ether | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| o-Xylene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Styrene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Tetrachloroethene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Toluene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| trans-1,2-Dichloroethene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| trans-1,3-Dichloropropene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Trichloroethene | eim | A | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Trichlorofluoromethane | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
| Vinyl Acetate | eim | A | ND | 10 | | µg/L | 1 | 12/08/2015 14:26 |
| Vinyl chloride | eim | A | ND | 2.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Total 1,2-Dichloroethene | m | M | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |
| Total Xylenes | eim | M | ND | 5.0 | | µg/L | 1 | 12/08/2015 14:26 |

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Analytical Results

Date: Wednesday, December 9, 2015

Client: Environmental Quality Management, Inc.
Client Project: 030281.0162 / Spencer Drum / Spencer, WI
Client Sample ID: SD-Pit-120215
Sample Description:
Matrix: Aqueous

Work Order/ID: 15L0144-05
Sampled: 12/01/2015 13:00
Received: 12/02/2015 16:10

| Analyses | Certs | AT | Result | RL | Qual | Units | DF | Analyzed |
|----------|-------|----|--------|----|------|-------|----|----------|
|----------|-------|----|--------|----|------|-------|----|----------|

Method: SW-846 8260B

Analyst: jln

Prep Date/Time: 12/08/2015 09:34

Volatile Organic Compounds

| | | | | | | | | |
|-----------------------------|--|---|------|----------|--|------|---|------------------|
| Surr: 1,2-Dichloroethane-d4 | | S | 92.8 | 74.5-132 | | %REC | 1 | 12/08/2015 14:26 |
| Surr: 4-Bromofluorobenzene | | S | 98.6 | 80-120 | | %REC | 1 | 12/08/2015 14:26 |
| Surr: Dibromofluoromethane | | S | 94.3 | 80-120 | | %REC | 1 | 12/08/2015 14:26 |
| Surr: Toluene-d8 | | S | 106 | 80-120 | | %REC | 1 | 12/08/2015 14:26 |

Method: SW-846 6010C

Analyst: SE

Prep Date/Time: 12/03/2015 08:52

Total Metals by ICP

Prep Method: SW846 3005A

| | | | | | | | | |
|----------|-----|---|------|-------|--|------|---|------------------|
| Arsenic | eim | A | ND | 0.10 | | mg/L | 1 | 12/03/2015 20:04 |
| Barium | eim | A | 0.12 | 0.020 | | mg/L | 1 | 12/03/2015 20:04 |
| Cadmium | eim | A | ND | 0.020 | | mg/L | 1 | 12/03/2015 20:04 |
| Chromium | eim | A | ND | 0.030 | | mg/L | 1 | 12/03/2015 20:04 |
| Lead | eim | A | ND | 0.075 | | mg/L | 1 | 12/03/2015 20:04 |
| Selenium | eim | A | ND | 0.30 | | mg/L | 1 | 12/03/2015 20:04 |
| Silver | eim | A | ND | 0.10 | | mg/L | 1 | 12/03/2015 20:04 |

Method: SW-846 7470A

Analyst: SA

Prep Date/Time: 12/03/2015 09:17

Total Mercury by CVAA

Prep Method: SW-846 7470

| | | | | | | | | |
|---------|-----|---|----|---------|--|------|---|------------------|
| Mercury | eim | A | ND | 0.00020 | | mg/L | 1 | 12/03/2015 13:42 |
|---------|-----|---|----|---------|--|------|---|------------------|

Method: SW-846 9012B

Analyst: GRIEF

Prep Date/Time: 12/09/2015 10:00

Total Cyanide

Prep Method: Aqueous CN Distillation

| | | | | | | | | |
|----------------|----|---|----|-------|--|------|---|------------------|
| Cyanide, Total | ei | A | ND | 0.050 | | mg/L | 1 | 12/09/2015 13:04 |
|----------------|----|---|----|-------|--|------|---|------------------|

Method: SW-846 1010A

Analyst: EB

Prep Date/Time: 12/07/2015 15:30

Ignitability (Closed Cup)

| | | | | | | | | |
|--------------|-----|---|-------|----|--|----|---|------------------|
| Ignitability | eim | A | > 170 | 30 | | °F | 1 | 12/07/2015 15:30 |
|--------------|-----|---|-------|----|--|----|---|------------------|

Method: SW-846 9045D

Analyst: EB

Prep Date/Time: 12/09/2015 13:50

pH

| | | | | | | | | |
|----|-----|---|------|------|---|------------|---|------------------|
| pH | eim | A | 7.07 | 2.00 | H | pH at 25°C | 1 | 12/09/2015 13:50 |
|----|-----|---|------|------|---|------------|---|------------------|

Method: SM 4500-S2 D-2000

Analyst: EB

Prep Date/Time: 12/08/2015 10:10

Total Sulfide

Prep Method: Sulfide Distillation

| | | | | | | | | |
|---------|---|---|----|-----|--|------|----|------------------|
| Sulfide | m | A | 32 | 5.0 | | mg/L | 10 | 12/08/2015 17:10 |
|---------|---|---|----|-----|--|------|----|------------------|



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

B = Detected in the associated method Blank at a concentration above the routine RL
b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL
b* = Detected in the associated method Blank at a concentration greater than half the RL
CFU = Colony forming units
D = Dilution performed on sample
DF = Dilution Factor
g = Gram
E = Value above quantitation range
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference
J = Analyte concentration detected between RL and MDL (Metals / Organics)
LOD = Limit of Detection
LOQ = Limit of Quantitation
m3 = Meters cubed
MDL = Method Detection Limit
mg/Kg = Milligrams per Kilogram (ppm)
mg/L = Milligrams per Liter (ppm)
NA = Not Analyzed
ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
NR = Not Recovered
R = RPD outside accepted recovery limits
RL = Reporting Limit
S = Spike recovery outside recovery limits
Surr = Surrogate
U = Undetected
> = Greater than
< = Less than
% = Percent
* = Result exceeds project specific limits

ANALYTE TYPES: (AT)

A,B = Target Analyte
I = Internal Standard
M = Summation Analyte
S = Surrogate
T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

| | |
|---------------------------------------|---|
| BLK = Method Blank | ICSA = Interference Check Standard "A" |
| DUP = Method Duplicate | ICSAB = Interference Check Standard "AB" |
| BS = Method Blank Spike | BSD = Method Blank Spike Duplicate |
| MS = Matrix Spike | MSD = Matrix Spike Duplicate |
| ICB = Initial Calibration Blank | ICV = Initial Calibration Verification |
| CCB = Continuing Calibration Blank | CCV = Continuing Calibration Verification |
| CRL = Client Required Reporting Limit | OPR = Ongoing Precision and Recovery Standard |
| PDS = Post Digestion Spike | SD = Serial Dilution |
| QCS = Quality Control Standard | |

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- ^a The American Association for Laboratory Accreditation [A2LA] for Biological Testing, ISO/IEC 17025 (Certificate# 3045.01)
- ^b The American Association for Laboratory Accreditation [A2LA] for Environmental Department of Defense Testing, ISO/IEC 17025 (Certificate# 3045.02)
- ^c Center for Disease Control [CDC] ELITE Proficiency Program member
- ^d Illinois DOPH for the microbiological analysis of drinking water (registry #1755266)
- ^e Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #200064)
- ^f Indiana DEM approved support laboratory for solid waste and wastewater analyses
- ^g Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
- ^h Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
- ⁱ Indiana State Board of Animal Health for microbiological analysis of dairy containers (18137)
- ^j Kansas DPHE for the analysis of drinking water, wastewater, and solid hazardous waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Certificate No. E-10397)
- ^k Kentucky DEP for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
- ^l Kentucky EEC Wastewater Laboratory Certification Program for the analysis of wastewater (lab #90147)
- ^m New York SDOH in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Lab#12006)
- ⁿ North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- ^o Pennsylvania Department of Environmental Protection [NELAP] (Lab# 68-04863)
- ^p United States Department of Agriculture Animal and Plant Health Inspection Service Permit To Receive Soil (Permit #P330-12-00174))
- ^q Virginia VELAP Department of General Services Division of Consolidated Laboratory Services [NELAP] (lab #460280)
- ^r Washington State Department of Ecology in accordance to Ch. 173-50 WAC (lab #C992)

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COOLER INSPECTION

Client Name: Environmental Quality Management, Inc.

Date: Wednesday, December 9, 2015

Date/Time Received: 12/02/2015 16:10

Work Order Number: 15L0144

Received by: Dave Bryant

Checklist completed by: 12/2/2015 5:12:00PM Dave Bryant

Reviewed by: 12/3/2015 KG

Carrier Name: Client Delivered

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 6.0° C

| | | | | | |
|---|-----|-------------------------------------|----|-------------------------------------|---|
| After-Hour Arrival? | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | |
| 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 containers? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| COC present? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| COC included sufficient client identification? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| COC included sufficient sample collector information? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| COC included a sample description? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| COC agrees with sample labels? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| COC identified the appropriate matrix? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| COC included date of collection? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| COC included time of collection? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| COC identified the appropriate number of 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"/> | |
| If the samples are preserved, are the preservatives identified? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |

If No, adjusted by: _____

| | | | | | |
|--|-----|-------------------------------------|----|--------------------------|--|
| COC included the requested analyses? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| COC signed when relinquished and received? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Samples received on ice? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Samples properly preserved? | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | |
| Voa vials for aqueous samples have zero headspace? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |

Cooler Comments: _____

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

| Sample ID | Client Sample ID | Comments |
|------------|------------------------|----------|
| 15L0144-01 | SD-N+L Liq-120215 | |
| 15L0144-02 | SD-N+L Sol-120215 | |
| 15L0144-03 | SD-N+L Flam Liq-120215 | |
| 15L0144-04 | SD-Flam Sol-120215 | |
| 15L0144-05 | SD-Pit-120215 | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Semivolatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078636 **Prep:** SW-846 1311/SW846 3510

TCLP Semivolatile Organic Compounds

| Sample ID: Blank (B078636-BLK1) | | Method: 1311/8270C | | Prepped: 12/04/2015 08:31 | | | | | | |
|--|--------|---------------------------|-------|-----------------------------------|--------|------|----------|-----|-------|------|
| Source: | | | | Analyzed: 12/04/2015 15:54 | | | | | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 2,4,5-Trichlorophenol | ND | 0.050 | mg/L | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 0.050 | mg/L | | | | | | | |
| 2,4-Dinitrotoluene | ND | 0.050 | mg/L | | | | | | | |
| 2-Methylphenol | ND | 0.050 | mg/L | | | | | | | |
| 3/4-Methylphenol | ND | 0.050 | mg/L | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | mg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.050 | mg/L | | | | | | | |
| Hexachloroethane | ND | 0.050 | mg/L | | | | | | | |
| Nitrobenzene | ND | 0.050 | mg/L | | | | | | | |
| Pentachlorophenol | ND | 0.25 | mg/L | | | | | | | |
| Pyridine | ND | 0.050 | mg/L | | | | | | | |
| Total Cresol | ND | 0.050 | mg/L | | | | | | | |
| Surrogate: 2,4,6-Tribromophenol | 0.68 | | mg/L | 0.7500 | | 91.2 | 47.8-138 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.25 | | mg/L | 0.5000 | | 49.8 | 10-110 | | | |
| Surrogate: 2-Fluorophenol | 0.52 | | mg/L | 0.7500 | | 69.1 | 10-110 | | | |
| Surrogate: Nitrobenzene-d5 | 0.28 | | mg/L | 0.5000 | | 56.9 | 10-110 | | | |
| Surrogate: Phenol-d5 | 0.57 | | mg/L | 0.7500 | | 76.2 | 43.7-126 | | | |
| Surrogate: Terphenyl-d14 | 0.34 | | mg/L | 0.5000 | | 68.2 | 33.7-136 | | | |

| Sample ID: Blank (B078636-BLK2) | | Method: 1311/8270C | | Prepped: 12/04/2015 08:31 | | | | | | |
|--|--------|---------------------------|-------|-----------------------------------|--------|------|----------|-----|-------|------|
| Source: | | | | Analyzed: 12/04/2015 16:15 | | | | | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 2,4,5-Trichlorophenol | ND | 0.050 | mg/L | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 0.050 | mg/L | | | | | | | |
| 2,4-Dinitrotoluene | ND | 0.050 | mg/L | | | | | | | |
| 2-Methylphenol | ND | 0.050 | mg/L | | | | | | | |
| 3/4-Methylphenol | ND | 0.050 | mg/L | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | mg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.050 | mg/L | | | | | | | |
| Hexachloroethane | ND | 0.050 | mg/L | | | | | | | |
| Nitrobenzene | ND | 0.050 | mg/L | | | | | | | |
| Pentachlorophenol | ND | 0.25 | mg/L | | | | | | | |
| Pyridine | ND | 0.050 | mg/L | | | | | | | |
| Total Cresol | ND | 0.050 | mg/L | | | | | | | |
| Surrogate: 2,4,6-Tribromophenol | 0.72 | | mg/L | 0.7500 | | 95.5 | 47.8-138 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.26 | | mg/L | 0.5000 | | 51.9 | 10-110 | | | |
| Surrogate: 2-Fluorophenol | 0.53 | | mg/L | 0.7500 | | 70.9 | 10-110 | | | |
| Surrogate: Nitrobenzene-d5 | 0.30 | | mg/L | 0.5000 | | 60.4 | 10-110 | | | |
| Surrogate: Phenol-d5 | 0.57 | | mg/L | 0.7500 | | 76.6 | 43.7-126 | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Semivolatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078636 **Prep:** SW-846 1311/SW846 3510

| | | | | | | | | | | |
|--------------------------|----------------------|-------|-------|--------|----------------|------------|----------|------------------|------------------|------|
| Sample ID: | Blank (B078636-BLK2) | | | | Method: | 1311/8270C | | Prepped: | 12/04/2015 08:31 | |
| Source: | | | | | | | | Analyzed: | 12/04/2015 16:15 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Surrogate: Terphenyl-d14 | 0.38 | | mg/L | 0.5000 | | 75.2 | 33.7-136 | | | |

| | | | | | | | | | | |
|---------------------------------|----------------------|-------|-------|--------|----------------|------------|----------|------------------|------------------|------|
| Sample ID: | Blank (B078636-BLK3) | | | | Method: | 1311/8270C | | Prepped: | 12/04/2015 08:31 | |
| Source: | | | | | | | | Analyzed: | 12/04/2015 16:37 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 2,4,5-Trichlorophenol | ND | 0.050 | mg/L | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 0.050 | mg/L | | | | | | | |
| 2,4-Dinitrotoluene | ND | 0.050 | mg/L | | | | | | | |
| 2-Methylphenol | ND | 0.050 | mg/L | | | | | | | |
| 3/4-Methylphenol | ND | 0.050 | mg/L | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | mg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.050 | mg/L | | | | | | | |
| Hexachloroethane | ND | 0.050 | mg/L | | | | | | | |
| Nitrobenzene | ND | 0.050 | mg/L | | | | | | | |
| Pentachlorophenol | ND | 0.25 | mg/L | | | | | | | |
| Pyridine | ND | 0.050 | mg/L | | | | | | | |
| Total Cresol | ND | 0.050 | mg/L | | | | | | | |
| Surrogate: 2,4,6-Tribromophenol | 0.59 | | mg/L | 0.7500 | | 78.0 | 47.8-138 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.21 | | mg/L | 0.5000 | | 42.8 | 10-110 | | | |
| Surrogate: 2-Fluorophenol | 0.41 | | mg/L | 0.7500 | | 55.1 | 10-110 | | | |
| Surrogate: Nitrobenzene-d5 | 0.23 | | mg/L | 0.5000 | | 46.3 | 10-110 | | | |
| Surrogate: Phenol-d5 | 0.46 | | mg/L | 0.7500 | | 60.7 | 43.7-126 | | | |
| Surrogate: Terphenyl-d14 | 0.32 | | mg/L | 0.5000 | | 64.4 | 33.7-136 | | | |

| | | | | | | | | | | |
|---------------------------------|----------------------|-------|-------|--------|----------------|------------|----------|------------------|------------------|------|
| Sample ID: | Blank (B078636-BLK4) | | | | Method: | 1311/8270C | | Prepped: | 12/04/2015 08:31 | |
| Source: | | | | | | | | Analyzed: | 12/04/2015 16:58 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 2,4,5-Trichlorophenol | ND | 0.050 | mg/L | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 0.050 | mg/L | | | | | | | |
| 2,4-Dinitrotoluene | ND | 0.050 | mg/L | | | | | | | |
| 2-Methylphenol | ND | 0.050 | mg/L | | | | | | | |
| 3/4-Methylphenol | ND | 0.050 | mg/L | | | | | | | |
| Hexachlorobenzene | ND | 0.050 | mg/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.050 | mg/L | | | | | | | |
| Hexachloroethane | ND | 0.050 | mg/L | | | | | | | |
| Nitrobenzene | ND | 0.050 | mg/L | | | | | | | |
| Pentachlorophenol | ND | 0.25 | mg/L | | | | | | | |
| Pyridine | ND | 0.050 | mg/L | | | | | | | |
| Total Cresol | ND | 0.050 | mg/L | | | | | | | |
| Surrogate: 2,4,6-Tribromophenol | 0.60 | | mg/L | 0.7500 | | 80.3 | 47.8-138 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.21 | | mg/L | 0.5000 | | 42.6 | 10-110 | | | |
| Surrogate: 2-Fluorophenol | 0.40 | | mg/L | 0.7500 | | 53.4 | 10-110 | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Semivolatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078636 **Prep:** SW-846 1311/SW846 3510

| | | | | | | | | | | |
|----------------------------|----------------------|-------|-------|--------|----------------|------------|----------|------------------|------------------|------|
| Sample ID: | Blank (B078636-BLK4) | | | | Method: | 1311/8270C | | Prepped: | 12/04/2015 08:31 | |
| Source: | | | | | | | | Analyzed: | 12/04/2015 16:58 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Surrogate: Nitrobenzene-d5 | 0.23 | | mg/L | 0.5000 | | 45.6 | 10-110 | | | |
| Surrogate: Phenol-d5 | 0.44 | | mg/L | 0.7500 | | 59.2 | 43.7-126 | | | |
| Surrogate: Terphenyl-d14 | 0.32 | | mg/L | 0.5000 | | 64.0 | 33.7-136 | | | |

| | | | | | | | | | | |
|---------------------------------|-------------------|-------|-------|--------|----------------|------------|-----------|------------------|------------------|------|
| Sample ID: | LCS (B078636-BS1) | | | | Method: | 1311/8270C | | Prepped: | 12/04/2015 08:31 | |
| Source: | | | | | | | | Analyzed: | 12/04/2015 17:19 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 2,4,5-Trichlorophenol | 0.321 | 0.050 | mg/L | 0.5000 | | 64.2 | 31.6-113 | | | |
| 2,4,6-Trichlorophenol | 0.299 | 0.050 | mg/L | 0.5000 | | 59.8 | 28.2-108 | | | |
| 2,4-Dinitrotoluene | 0.298 | 0.050 | mg/L | 0.5000 | | 59.6 | 32.4-114 | | | |
| 2-Methylphenol | 0.313 | 0.050 | mg/L | 0.5000 | | 62.6 | 25.4-89.6 | | | |
| 3/4-Methylphenol | 0.620 | 0.050 | mg/L | 1.000 | | 62.0 | 24.8-94.2 | | | |
| Hexachlorobenzene | 0.307 | 0.050 | mg/L | 0.5000 | | 61.4 | 33.9-115 | | | |
| Hexachlorobutadiene | 0.164 | 0.050 | mg/L | 0.5000 | | 32.8 | 18.4-79.1 | | | |
| Hexachloroethane | 0.173 | 0.050 | mg/L | 0.5000 | | 34.6 | 10-97.2 | | | |
| Nitrobenzene | 0.274 | 0.050 | mg/L | 0.5000 | | 54.7 | 10.9-112 | | | |
| Pentachlorophenol | 0.223 | 0.25 | mg/L | 0.5000 | | 44.5 | 21.3-103 | | | |
| Pyridine | 0.146 | 0.050 | mg/L | 0.5000 | | 29.3 | 10-84.8 | | | |
| Surrogate: 2,4,6-Tribromophenol | 0.65 | | mg/L | 0.7500 | | 86.4 | 47.8-138 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.24 | | mg/L | 0.5000 | | 47.5 | 10-110 | | | |
| Surrogate: 2-Fluorophenol | 0.52 | | mg/L | 0.7500 | | 69.7 | 10-110 | | | |
| Surrogate: Nitrobenzene-d5 | 0.29 | | mg/L | 0.5000 | | 57.2 | 10-110 | | | |
| Surrogate: Phenol-d5 | 0.57 | | mg/L | 0.7500 | | 75.6 | 43.7-126 | | | |
| Surrogate: Terphenyl-d14 | 0.34 | | mg/L | 0.5000 | | 68.3 | 33.7-136 | | | |

| | | | | | | | | | | |
|---------------------------------|----------------------------|-------|-------|--------|----------------|------------|----------|------------------|------------------|------|
| Sample ID: | Matrix Spike (B078636-MS1) | | | | Method: | 1311/8270C | | Prepped: | 12/04/2015 08:31 | |
| Source: | 15K1484-03 | | | | | | | Analyzed: | 12/04/2015 18:44 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 2,4,5-Trichlorophenol | 0.341 | 0.050 | mg/L | 0.5000 | ND | 68.1 | 50-150 | | | |
| 2,4,6-Trichlorophenol | 0.322 | 0.050 | mg/L | 0.5000 | ND | 64.5 | 50-150 | | | |
| 2,4-Dinitrotoluene | 0.324 | 0.050 | mg/L | 0.5000 | ND | 64.8 | 22.6-110 | | | |
| 2-Methylphenol | 0.287 | 0.050 | mg/L | 0.5000 | ND | 57.3 | 50-150 | | | |
| 3/4-Methylphenol | 0.571 | 0.050 | mg/L | 1.000 | ND | 57.1 | 50-150 | | | |
| Hexachlorobenzene | 0.339 | 0.050 | mg/L | 0.5000 | ND | 67.8 | 50-150 | | | |
| Hexachlorobutadiene | 0.216 | 0.050 | mg/L | 0.5000 | ND | 43.2 | 10-110 | | | |
| Hexachloroethane | 0.216 | 0.050 | mg/L | 0.5000 | ND | 43.2 | 30-123 | | | |
| Nitrobenzene | 0.280 | 0.050 | mg/L | 0.5000 | ND | 56.0 | 25-190 | | | |
| Pentachlorophenol | 0.278 | 0.25 | mg/L | 0.5000 | ND | 55.6 | 10-110 | | | |
| Pyridine | 0.146 | 0.050 | mg/L | 0.5000 | ND | 29.3 | 10-120 | | | |
| Surrogate: 2,4,6-Tribromophenol | 0.71 | | mg/L | 0.7500 | | 94.7 | 47.8-138 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.27 | | mg/L | 0.5000 | | 53.3 | 10-110 | | | |
| Surrogate: 2-Fluorophenol | 0.47 | | mg/L | 0.7500 | | 63.0 | 10-110 | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Semivolatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078636 **Prep:** SW-846 1311/SW846 3510

| | | | | | | | | | | |
|----------------------------|----------------------------|-------|-------|----------------|------------|------|------------------|------------------|-------|------|
| Sample ID: | Matrix Spike (B078636-MS1) | | | Method: | 1311/8270C | | Prepped: | 12/04/2015 08:31 | | |
| Source: | 15K1484-03 | | | | | | Analyzed: | 12/04/2015 18:44 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Surrogate: Nitrobenzene-d5 | 0.29 | | mg/L | 0.5000 | | 57.2 | 10-110 | | | |
| Surrogate: Phenol-d5 | 0.51 | | mg/L | 0.7500 | | 68.0 | 43.7-126 | | | |
| Surrogate: Terphenyl-d14 | 0.37 | | mg/L | 0.5000 | | 74.1 | 33.7-136 | | | |

| | | | | | | | | | | |
|---------------------------------|---------------------------------|-------|-------|----------------|------------|------|------------------|------------------|-------|------|
| Sample ID: | Matrix Spike Dup (B078636-MSD1) | | | Method: | 1311/8270C | | Prepped: | 12/04/2015 08:31 | | |
| Source: | 15K1484-03 | | | | | | Analyzed: | 12/04/2015 19:05 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 2,4,5-Trichlorophenol | 0.315 | 0.050 | mg/L | 0.5000 | ND | 63.0 | 50-150 | 7.79 | 30 | |
| 2,4,6-Trichlorophenol | 0.296 | 0.050 | mg/L | 0.5000 | ND | 59.2 | 50-150 | 8.55 | 30 | |
| 2,4-Dinitrotoluene | 0.289 | 0.050 | mg/L | 0.5000 | ND | 57.9 | 22.6-110 | 11.3 | 30 | |
| 2-Methylphenol | 0.279 | 0.050 | mg/L | 0.5000 | ND | 55.8 | 50-150 | 2.65 | 30 | |
| 3/4-Methylphenol | 0.562 | 0.050 | mg/L | 1.000 | ND | 56.2 | 50-150 | 1.71 | 30 | |
| Hexachlorobenzene | 0.302 | 0.050 | mg/L | 0.5000 | ND | 60.5 | 50-150 | 11.5 | 30 | |
| Hexachlorobutadiene | 0.197 | 0.050 | mg/L | 0.5000 | ND | 39.5 | 10-110 | 8.95 | 30 | |
| Hexachloroethane | 0.207 | 0.050 | mg/L | 0.5000 | ND | 41.5 | 30-123 | 4.06 | 30 | |
| Nitrobenzene | 0.249 | 0.050 | mg/L | 0.5000 | ND | 49.9 | 25-190 | 11.5 | 30 | |
| Pentachlorophenol | 0.245 | 0.25 | mg/L | 0.5000 | ND | 48.9 | 10-110 | 12.8 | 30 | |
| Pyridine | 0.238 | 0.050 | mg/L | 0.5000 | ND | 47.7 | 10-120 | 47.8 | 30 | R |
| Surrogate: 2,4,6-Tribromophenol | 0.63 | | mg/L | 0.7500 | | 83.4 | 47.8-138 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.24 | | mg/L | 0.5000 | | 47.7 | 10-110 | | | |
| Surrogate: 2-Fluorophenol | 0.47 | | mg/L | 0.7500 | | 62.2 | 10-110 | | | |
| Surrogate: Nitrobenzene-d5 | 0.26 | | mg/L | 0.5000 | | 51.8 | 10-110 | | | |
| Surrogate: Phenol-d5 | 0.50 | | mg/L | 0.7500 | | 67.2 | 43.7-126 | | | |
| Surrogate: Terphenyl-d14 | 0.36 | | mg/L | 0.5000 | | 71.2 | 33.7-136 | | | |

Batch: B078768 **Prep:** 40CFR136

Semivolatile Organic Compounds

| | | | | | | | | | | |
|------------------------------|----------------------|-------|-------|----------------|--------------|------|------------------|------------------|-------|------|
| Sample ID: | Blank (B078768-BLK1) | | | Method: | SW-846 8270C | | Prepped: | 12/08/2015 12:06 | | |
| Source: | | | | | | | Analyzed: | 12/09/2015 10:02 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 1,2,4-Trichlorobenzene | ND | 10 | µg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 10 | µg/L | | | | | | | |
| 1,2-Diphenyl-hydrazine | ND | 10 | µg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 10 | µg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 10 | µg/L | | | | | | | |
| 2,2'-oxybis(1-chloropropane) | ND | 10 | µg/L | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 10 | µg/L | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 10 | µg/L | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | µg/L | | | | | | | |
| 2,4-Dimethylphenol | ND | 10 | µg/L | | | | | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Semivolatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078768 **Prep:** 40CFR136

Sample ID: Blank (B078768-BLK1) **Method:** SW-846 8270C **Prepped:** 12/08/2015 12:06
Source: **Analyzed:** 12/09/2015 10:02

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
|-----------------------------|--------|-------|-------|-------|--------|------|--------|-----|-------|------|
| 2,4-Dinitrophenol | ND | 50 | µg/L | | | | | | | |
| 2,4-Dinitrotoluene | ND | 10 | µg/L | | | | | | | |
| 2,6-Dichlorophenol | ND | 10 | µg/L | | | | | | | |
| 2,6-Dinitrotoluene | ND | 10 | µg/L | | | | | | | |
| 2-Chloronaphthalene | ND | 10 | µg/L | | | | | | | |
| 2-Chlorophenol | ND | 10 | µg/L | | | | | | | |
| 2-Methylnaphthalene | ND | 10 | µg/L | | | | | | | |
| 2-Methylphenol | ND | 10 | µg/L | | | | | | | |
| 2-Nitroaniline | ND | 50 | µg/L | | | | | | | |
| 2-Nitrophenol | ND | 10 | µg/L | | | | | | | |
| 3,3'-Dichlorobenzidine | ND | 50 | µg/L | | | | | | | |
| 3/4-Methylphenol | ND | 10 | µg/L | | | | | | | |
| 3-Nitroaniline | ND | 50 | µg/L | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 50 | µg/L | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 10 | µg/L | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 20 | µg/L | | | | | | | |
| 4-Chloroaniline | ND | 10 | µg/L | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 10 | µg/L | | | | | | | |
| 4-Nitroaniline | ND | 50 | µg/L | | | | | | | |
| 4-Nitrophenol | ND | 50 | µg/L | | | | | | | |
| Acenaphthene | ND | 10 | µg/L | | | | | | | |
| Acenaphthylene | ND | 10 | µg/L | | | | | | | |
| Acetophenone | ND | 10 | µg/L | | | | | | | |
| Aniline | ND | 10 | µg/L | | | | | | | |
| Anthracene | ND | 10 | µg/L | | | | | | | |
| Benzidine | ND | 50 | µg/L | | | | | | | |
| Benzo[a]anthracene | ND | 10 | µg/L | | | | | | | |
| Benzo[a]pyrene | ND | 10 | µg/L | | | | | | | |
| Benzo[b]fluoranthene | ND | 10 | µg/L | | | | | | | |
| Benzo[g,h,i]perylene | ND | 10 | µg/L | | | | | | | |
| Benzo[k]fluoranthene | ND | 10 | µg/L | | | | | | | |
| Benzoic acid | ND | 50 | µg/L | | | | | | | |
| Benzyl alcohol | ND | 20 | µg/L | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 10 | µg/L | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 10 | µg/L | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 10 | µg/L | | | | | | | |
| Butyl benzyl phthalate | ND | 10 | µg/L | | | | | | | |
| Carbazole | ND | 10 | µg/L | | | | | | | |
| Chrysene | ND | 10 | µg/L | | | | | | | |
| Dibenz[a,h]anthracene | ND | 10 | µg/L | | | | | | | |
| Dibenzofuran | ND | 10 | µg/L | | | | | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Semivolatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078768 **Prep:** 40CFR136

| Sample ID: | Blank (B078768-BLK1) | | | | Method: | SW-846 8270C | | Prepped: | 12/08/2015 12:06 | |
|---------------------------------|----------------------|-------|-------|-------|----------------|--------------|----------|------------------|------------------|------|
| Source: | | | | | | | | Analyzed: | 12/09/2015 10:02 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Diethyl phthalate | ND | 10 | µg/L | | | | | | | |
| Dimethyl phthalate | ND | 10 | µg/L | | | | | | | |
| Di-n-butyl phthalate | ND | 10 | µg/L | | | | | | | |
| Di-n-octyl phthalate | ND | 10 | µg/L | | | | | | | |
| Fluoranthene | ND | 10 | µg/L | | | | | | | |
| Fluorene | ND | 10 | µg/L | | | | | | | |
| Hexachlorobenzene | ND | 10 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 10 | µg/L | | | | | | | |
| Hexachlorocyclopentadiene | ND | 10 | µg/L | | | | | | | |
| Hexachloroethane | ND | 10 | µg/L | | | | | | | |
| Indeno[1,2,3cd]pyrene | ND | 10 | µg/L | | | | | | | |
| Isophorone | ND | 10 | µg/L | | | | | | | |
| Naphthalene | ND | 10 | µg/L | | | | | | | |
| Nitrobenzene | ND | 10 | µg/L | | | | | | | |
| N-Nitrosodimethylamine | ND | 10 | µg/L | | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 10 | µg/L | | | | | | | |
| N-Nitrosodiphenylamine | ND | 10 | µg/L | | | | | | | |
| Pentachlorophenol | ND | 50 | µg/L | | | | | | | |
| Phenanthrene | ND | 10 | µg/L | | | | | | | |
| Phenol | ND | 10 | µg/L | | | | | | | |
| Pyrene | ND | 10 | µg/L | | | | | | | |
| Pyridine | ND | 10 | µg/L | | | | | | | |
| Total Cresol | ND | 10 | µg/L | | | | | | | |
| Surrogate: 2,4,6-Tribromophenol | 110 | | µg/L | 150.0 | | 71.3 | 47.8-138 | | | |
| Surrogate: 2-Fluorobiphenyl | 40 | | µg/L | 100.0 | | 39.6 | 10-110 | | | |
| Surrogate: 2-Fluorophenol | 52 | | µg/L | 150.0 | | 35.0 | 10-110 | | | |
| Surrogate: Nitrobenzene-d5 | 45 | | µg/L | 100.0 | | 45.2 | 10-110 | | | |
| Surrogate: Phenol-d5 | 39 | | µg/L | 150.0 | | 25.8 | 10-60.8 | | | |
| Surrogate: Terphenyl-d14 | 56 | | µg/L | 100.0 | | 55.9 | 16.8-110 | | | |

| Sample ID: | LCS (B078768-BS1) | | | | Method: | SW-846 8270C | | Prepped: | 12/08/2015 12:06 | |
|------------------------|-------------------|-------|-------|-------|----------------|--------------|-----------|------------------|------------------|------|
| Source: | | | | | | | | Analyzed: | 12/09/2015 12:36 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 1,2,4-Trichlorobenzene | 37.4 | 10 | µg/L | 100.0 | | 37.4 | 29-69 | | | |
| 1,4-Dichlorobenzene | 36.2 | 10 | µg/L | 100.0 | | 36.2 | 23.3-63.3 | | | |
| 2,4-Dinitrotoluene | 58.9 | 10 | µg/L | 100.0 | | 58.9 | 48-110 | | | |
| 2,6-Dichlorophenol | 50.2 | 10 | µg/L | 100.0 | | 50.2 | 45-110 | | | |
| 2-Chlorophenol | 46.2 | 10 | µg/L | 100.0 | | 46.2 | 35-110 | | | |
| 2-Methylnaphthalene | 46.3 | 10 | µg/L | 100.0 | | 46.3 | 38-110 | | | |
| 2-Methylphenol | 41.9 | 10 | µg/L | 100.0 | | 41.9 | 30.4-70.4 | | | |
| 3-Nitroaniline | 59.9 | 50 | µg/L | 100.0 | | 59.9 | 38-110 | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Semivolatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078768 **Prep:** 40CFR136

| Sample ID: | LCS (B078768-BS1) | | | | Method: | SW-846 8270C | | Prepped: | 12/08/2015 | 12:06 |
|---------------------------------|-------------------|-------|-------|-------|----------------|--------------|----------|------------------|------------|-------|
| Source: | | | | | | | | Analyzed: | 12/09/2015 | 12:36 |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 4-Chloro-3-methylphenol | 53.1 | 20 | µg/L | 100.0 | | 53.1 | 42-110 | | | |
| 4-Nitrophenol | 26.2 | 50 | µg/L | 100.0 | | 26.2 | 10-50 | | | |
| Acenaphthene | 47.2 | 10 | µg/L | 100.0 | | 47.2 | 36-110 | | | |
| Aniline | 24.2 | 10 | µg/L | 100.0 | | 24.2 | 10-60 | | | |
| Carbazole | 61.1 | 10 | µg/L | 100.0 | | 61.1 | 41-110 | | | |
| Hexachlorocyclopentadiene | 35.3 | 10 | µg/L | 100.0 | | 35.3 | 11-110 | | | |
| N-Nitrosodi-n-propylamine | 53.3 | 10 | µg/L | 100.0 | | 53.3 | 39-110 | | | |
| N-Nitrosodiphenylamine | 48.8 | 10 | µg/L | 100.0 | | 48.8 | 31-110 | | | |
| Pentachlorophenol | 42.0 | 50 | µg/L | 100.0 | | 42.0 | 33-110 | | | |
| Phenol | 20.9 | 10 | µg/L | 100.0 | | 20.9 | 10-50 | | | |
| Pyrene | 50.9 | 10 | µg/L | 100.0 | | 50.9 | 47-124 | | | |
| Pyridine | 29.3 | 10 | µg/L | 100.0 | | 29.3 | 14-58 | | | |
| Surrogate: 2,4,6-Tribromophenol | 130 | | µg/L | 150.0 | | 87.8 | 47.8-138 | | | |
| Surrogate: 2-Fluorobiphenyl | 48 | | µg/L | 100.0 | | 48.1 | 10-110 | | | |
| Surrogate: 2-Fluorophenol | 62 | | µg/L | 150.0 | | 41.1 | 10-110 | | | |
| Surrogate: Nitrobenzene-d5 | 52 | | µg/L | 100.0 | | 52.0 | 10-110 | | | |
| Surrogate: Phenol-d5 | 46 | | µg/L | 150.0 | | 30.4 | 10-60.8 | | | |
| Surrogate: Terphenyl-d14 | 63 | | µg/L | 100.0 | | 63.0 | 16.8-110 | | | |

| Sample ID: | LCS Dup (B078768-BSD1) | | | | Method: | SW-846 8270C | | Prepped: | 12/08/2015 | 12:06 |
|---------------------------|------------------------|-------|-------|-------|----------------|--------------|-----------|------------------|------------|-------|
| Source: | | | | | | | | Analyzed: | 12/09/2015 | 12:58 |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 1,2,4-Trichlorobenzene | 48.3 | 10 | µg/L | 100.0 | | 48.3 | 29-69 | 25.6 | 30 | |
| 1,4-Dichlorobenzene | 46.7 | 10 | µg/L | 100.0 | | 46.7 | 23.3-63.3 | 25.3 | 30 | |
| 2,4-Dinitrotoluene | 67.9 | 10 | µg/L | 100.0 | | 67.9 | 48-110 | 14.1 | 30 | |
| 2,6-Dichlorophenol | 60.2 | 10 | µg/L | 100.0 | | 60.2 | 45-110 | 18.2 | 30 | |
| 2-Chlorophenol | 57.4 | 10 | µg/L | 100.0 | | 57.4 | 35-110 | 21.5 | 30 | |
| 2-Methylnaphthalene | 55.8 | 10 | µg/L | 100.0 | | 55.8 | 38-110 | 18.6 | 30 | |
| 2-Methylphenol | 51.8 | 10 | µg/L | 100.0 | | 51.8 | 30.4-70.4 | 21.1 | 30 | |
| 3-Nitroaniline | 65.3 | 50 | µg/L | 100.0 | | 65.3 | 38-110 | 8.60 | 30 | |
| 4-Chloro-3-methylphenol | 63.7 | 20 | µg/L | 100.0 | | 63.7 | 42-110 | 18.0 | 30 | |
| 4-Nitrophenol | 31.4 | 50 | µg/L | 100.0 | | 31.4 | 10-50 | 18.0 | 30 | |
| Acenaphthene | 55.3 | 10 | µg/L | 100.0 | | 55.3 | 36-110 | 15.8 | 30 | |
| Aniline | 24.7 | 10 | µg/L | 100.0 | | 24.7 | 10-60 | 2.08 | 30 | |
| Carbazole | 69.1 | 10 | µg/L | 100.0 | | 69.1 | 41-110 | 12.3 | 30 | |
| Hexachlorocyclopentadiene | 42.8 | 10 | µg/L | 100.0 | | 42.8 | 11-110 | 19.2 | 30 | |
| N-Nitrosodi-n-propylamine | 62.8 | 10 | µg/L | 100.0 | | 62.8 | 39-110 | 16.3 | 30 | |
| N-Nitrosodiphenylamine | 55.7 | 10 | µg/L | 100.0 | | 55.7 | 31-110 | 13.2 | 30 | |
| Pentachlorophenol | 50.3 | 50 | µg/L | 100.0 | | 50.3 | 33-110 | 17.9 | 30 | |
| Phenol | 27.4 | 10 | µg/L | 100.0 | | 27.4 | 10-50 | 26.9 | 30 | |
| Pyrene | 58.1 | 10 | µg/L | 100.0 | | 58.1 | 47-124 | 13.3 | 30 | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Semivolatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078768 **Prep:** 40CFR136

| Sample ID: | LCS Dup (B078768-BSD1) | | | | Method: | SW-846 8270C | | Prepped: | 12/08/2015 12:06 | |
|---------------------------------|------------------------|-------|-------|-------|----------------|--------------|----------|------------------|------------------|------|
| Source: | | | | | | | | Analyzed: | 12/09/2015 12:58 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Pyridine | 27.2 | 10 | µg/L | 100.0 | | 27.2 | 14-58 | 7.33 | 30 | |
| Surrogate: 2,4,6-Tribromophenol | 150 | | µg/L | 150.0 | | 98.9 | 47.8-138 | | | |
| Surrogate: 2-Fluorobiphenyl | 58 | | µg/L | 100.0 | | 57.8 | 10-110 | | | |
| Surrogate: 2-Fluorophenol | 76 | | µg/L | 150.0 | | 50.7 | 10-110 | | | |
| Surrogate: Nitrobenzene-d5 | 64 | | µg/L | 100.0 | | 64.5 | 10-110 | | | |
| Surrogate: Phenol-d5 | 57 | | µg/L | 150.0 | | 38.2 | 10-60.8 | | | |
| Surrogate: Terphenyl-d14 | 71 | | µg/L | 100.0 | | 70.6 | 16.8-110 | | | |

Analytical QC Summary

| | | |
|--------------------|--|---|
| Client: | Environmental Quality Management, Inc. | GCMS Volatiles - Quality Control |
| Work Order: | 15L0144 | |
| Project: | 030281.0162 / Spencer Drum / Spencer, WI | |
| Batch: | B078758 | |

Volatile Organic Compounds

| | | | | | | | | | | |
|---------------------------------|--------|-------|----------------------|-------|----------------------------|------|--------|-----|-------|------|
| Sample ID: Blank (B078758-BLK1) | | | Method: SW-846 8260B | | Prepped: 12/08/2015 09:34 | | | | | |
| Source: | | | | | Analyzed: 12/08/2015 14:01 | | | | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 1,1,1,2-Tetrachloroethane | ND | 10 | µg/L | | | | | | | |
| 1,1,1-Trichloroethane | ND | 5.0 | µg/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | µg/L | | | | | | | |
| 1,1,2-Trichloroethane | ND | 5.0 | µg/L | | | | | | | |
| 1,1-Dichloroethane | ND | 5.0 | µg/L | | | | | | | |
| 1,1-Dichloroethene | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 5.0 | µg/L | | | | | | | |
| 2-Butanone | ND | 10 | µg/L | | | | | | | |
| 2-Hexanone | ND | 10 | µg/L | | | | | | | |
| 4-Methyl-2-Pentanone | ND | 10 | µg/L | | | | | | | |
| Acetone | ND | 50 | µg/L | | | | | | | |
| Acrolein | ND | 100 | µg/L | | | | | | | |
| Acrylonitrile | ND | 100 | µg/L | | | | | | | |
| Benzene | ND | 5.0 | µg/L | | | | | | | |
| Bromodichloromethane | ND | 5.0 | µg/L | | | | | | | |
| Bromoform | ND | 5.0 | µg/L | | | | | | | |
| Bromomethane | ND | 10 | µg/L | | | | | | | |
| Carbon Disulfide | ND | 10 | µg/L | | | | | | | |
| Carbon tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 5.0 | µg/L | | | | | | | |
| Chloroethane | ND | 10 | µg/L | | | | | | | |
| Chloroform | ND | 5.0 | µg/L | | | | | | | |
| Chloromethane | ND | 10 | µg/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 5.0 | µg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 5.0 | µg/L | | | | | | | |
| Dibromochloromethane | ND | 5.0 | µg/L | | | | | | | |
| Ethylbenzene | ND | 5.0 | µg/L | | | | | | | |
| m,p-Xylene | ND | 5.0 | µg/L | | | | | | | |
| Methylene chloride | ND | 10 | µg/L | | | | | | | |
| Methyl-t-Butyl Ether | ND | 5.0 | µg/L | | | | | | | |
| o-Xylene | ND | 5.0 | µg/L | | | | | | | |
| Styrene | ND | 5.0 | µg/L | | | | | | | |
| Tetrachloroethene | ND | 5.0 | µg/L | | | | | | | |
| Toluene | ND | 5.0 | µg/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 5.0 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 5.0 | µg/L | | | | | | | |
| Trichloroethene | ND | 5.0 | µg/L | | | | | | | |
| Trichlorofluoromethane | ND | 10 | µg/L | | | | | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Volatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078758

| Sample ID: | Blank (B078758-BLK1) | | | Method: | SW-846 8260B | | Prepped: | 12/08/2015 09:34 | | |
|----------------------------------|----------------------|-------|-------|----------------|--------------|------|------------------|------------------|-------|------|
| Source: | | | | | | | Analyzed: | 12/08/2015 14:01 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Vinyl Acetate | ND | 10 | µg/L | | | | | | | |
| Vinyl chloride | ND | 2.0 | µg/L | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromoethane | ND | 5.0 | µg/L | | | | | | | |
| Cyclohexane | ND | 10 | µg/L | | | | | | | |
| Hexane | ND | 20 | µg/L | | | | | | | |
| Isopropylbenzene | ND | 5.0 | µg/L | | | | | | | |
| Naphthalene | ND | 8.0 | µg/L | | | | | | | |
| Total 1,2-Dichloroethene | ND | 5.0 | µg/L | | | | | | | |
| Total Xylenes | ND | 5.0 | µg/L | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 24 | | µg/L | 25.00 | | 97.3 | 74.5-132 | | | |
| Surrogate: 4-Bromofluorobenzene | 25 | | µg/L | 25.00 | | 98.7 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 24 | | µg/L | 25.00 | | 95.5 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26 | | µg/L | 25.00 | | 104 | 80-120 | | | |
| 2,2,4-Trimethylpentane [TIC] | ND | 100 | µg/L | | | | | | | |

| Sample ID: | LCS (B078758-BS1) | | | Method: | SW-846 8260B | | Prepped: | 12/08/2015 09:34 | | |
|---------------------------|-------------------|-------|-------|----------------|--------------|------|------------------|------------------|-------|------|
| Source: | | | | | | | Analyzed: | 12/08/2015 13:19 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 1,1,1,2-Tetrachloroethane | 18.7 | | µg/L | 20.00 | | 93.6 | 80-120 | | | |
| 1,1,1-Trichloroethane | 16.4 | | µg/L | 20.00 | | 81.9 | 75.4-125 | | | |
| 1,1,2,2-Tetrachloroethane | 20.7 | | µg/L | 20.00 | | 103 | 72.3-119 | | | |
| 1,1,2-Trichloroethane | 19.7 | | µg/L | 20.00 | | 98.4 | 80-120 | | | |
| 1,1-Dichloroethane | 16.7 | | µg/L | 20.00 | | 83.5 | 74.3-122 | | | |
| 1,1-Dichloroethene | 14.7 | | µg/L | 20.00 | | 73.6 | 58.5-104 | | | |
| 1,2-Dichloroethane | 16.8 | | µg/L | 20.00 | | 84.2 | 70-126 | | | |
| 1,2-Dichloropropane | 18.4 | | µg/L | 20.00 | | 92.0 | 79.2-120 | | | |
| 2-Butanone | 17.5 | | µg/L | 20.00 | | 87.6 | 60.4-125 | | | |
| 2-Hexanone | 18.4 | | µg/L | 20.00 | | 92.0 | 49.5-119 | | | |
| 4-Methyl-2-Pentanone | 18.6 | | µg/L | 20.00 | | 93.2 | 59.4-125 | | | |
| Acetone | 16.1 | | µg/L | 20.00 | | 80.6 | 51.1-126 | | | |
| Acrolein | 39.4 | | µg/L | 20.00 | | 197 | 10-200 | | | |
| Acrylonitrile | 20.7 | | µg/L | 20.00 | | 103 | 70.9-134 | | | |
| Benzene | 17.5 | | µg/L | 20.00 | | 87.5 | 80-120 | | | |
| Bromodichloromethane | 16.8 | | µg/L | 20.00 | | 84.0 | 76.4-118 | | | |
| Bromoform | 18.2 | | µg/L | 20.00 | | 91.2 | 66.4-120 | | | |
| Bromomethane | 21.5 | | µg/L | 20.00 | | 107 | 10-138 | | | |
| Carbon Disulfide | 19.2 | | µg/L | 20.00 | | 96.2 | 66.7-137 | | | |
| Carbon tetrachloride | 16.3 | | µg/L | 20.00 | | 81.6 | 73.7-128 | | | |
| Chlorobenzene | 19.3 | | µg/L | 20.00 | | 96.4 | 81-121 | | | |
| Chloroethane | 20.8 | | µg/L | 20.00 | | 104 | 59.5-142 | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Volatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078758

| Sample ID: | LCS (B078758-BS1) | | | Method: | SW-846 8260B | | Prepped: | 12/08/2015 09:34 | | |
|----------------------------------|-------------------|-------|-------|----------------|--------------|------|------------------|------------------|-------|------|
| Source: | | | | | | | Analyzed: | 12/08/2015 13:19 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Chloroform | 17.5 | | µg/L | 20.00 | | 87.4 | 79.3-122 | | | |
| Chloromethane | 24.2 | | µg/L | 20.00 | | 121 | 44.1-110 | | | S |
| cis-1,2-Dichloroethene | 17.2 | | µg/L | 20.00 | | 85.8 | 80-120 | | | |
| cis-1,3-Dichloropropene | 19.5 | | µg/L | 20.00 | | 97.3 | 80-120 | | | |
| Dibromochloromethane | 17.9 | | µg/L | 20.00 | | 89.4 | 79.7-118 | | | |
| Ethylbenzene | 19.0 | | µg/L | 20.00 | | 95.1 | 79.6-120 | | | |
| m,p-Xylene | 37.8 | | µg/L | 40.00 | | 94.6 | 79.6-120 | | | |
| Methylene chloride | 18.0 | | µg/L | 20.00 | | 89.8 | 67.4-112 | | | |
| Methyl-t-Butyl Ether | 17.1 | | µg/L | 20.00 | | 85.3 | 75.5-120 | | | |
| o-Xylene | 19.1 | | µg/L | 20.00 | | 95.4 | 76.1-116 | | | |
| Styrene | 19.1 | | µg/L | 20.00 | | 95.6 | 74.8-115 | | | |
| Tetrachloroethene | 18.6 | | µg/L | 20.00 | | 93.2 | 80.9-129 | | | |
| Toluene | 18.8 | | µg/L | 20.00 | | 94.0 | 81-121 | | | |
| trans-1,2-Dichloroethene | 16.0 | | µg/L | 20.00 | | 79.8 | 74.7-115 | | | |
| trans-1,3-Dichloropropene | 19.2 | | µg/L | 20.00 | | 96.2 | 76.2-116 | | | |
| Trichloroethene | 17.0 | | µg/L | 20.00 | | 85.2 | 82-127 | | | |
| Trichlorofluoromethane | 17.1 | | µg/L | 20.00 | | 85.7 | 52.4-134 | | | |
| Vinyl Acetate | 17.6 | | µg/L | 20.00 | | 87.8 | 31.7-138 | | | |
| Vinyl chloride | 19.2 | | µg/L | 20.00 | | 96.2 | 58.8-135 | | | |
| 1,2,4-Trimethylbenzene | 18.9 | | µg/L | 20.00 | | 94.4 | 78.6-124 | | | |
| 1,2-Dibromoethane | 19.3 | | µg/L | 20.00 | | 96.4 | 78.1-118 | | | |
| Isopropylbenzene | 19.0 | | µg/L | 20.00 | | 94.8 | 77-117 | | | |
| Naphthalene | 19.6 | | µg/L | 20.00 | | 98.0 | 34.6-127 | | | |
| Total Xylenes | 56.9 | | µg/L | 60.00 | | 94.8 | 78.5-119 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 24 | | µg/L | 25.00 | | 94.4 | 74.5-132 | | | |
| Surrogate: 4-Bromofluorobenzene | 25 | | µg/L | 25.00 | | 99.0 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 24 | | µg/L | 25.00 | | 96.5 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26 | | µg/L | 25.00 | | 105 | 80-120 | | | |

| Sample ID: | LCS Dup (B078758-BSD1) | | | Method: | SW-846 8260B | | Prepped: | 12/08/2015 09:34 | | |
|---------------------------|------------------------|-------|-------|----------------|--------------|------|------------------|------------------|-------|------|
| Source: | | | | | | | Analyzed: | 12/08/2015 13:40 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 1,1,1,2-Tetrachloroethane | 19.9 | | µg/L | 20.00 | | 99.4 | 80-120 | 6.06 | 30 | |
| 1,1,1-Trichloroethane | 17.4 | | µg/L | 20.00 | | 87.2 | 75.4-125 | 6.27 | 30 | |
| 1,1,2,2-Tetrachloroethane | 23.0 | | µg/L | 20.00 | | 115 | 72.3-119 | 10.5 | 30 | |
| 1,1,2-Trichloroethane | 21.3 | | µg/L | 20.00 | | 107 | 80-120 | 8.10 | 30 | |
| 1,1-Dichloroethane | 17.6 | | µg/L | 20.00 | | 87.9 | 74.3-122 | 5.13 | 30 | |
| 1,1-Dichloroethene | 15.6 | | µg/L | 20.00 | | 78.0 | 58.5-104 | 5.81 | 30 | |
| 1,2-Dichloroethane | 18.1 | | µg/L | 20.00 | | 90.6 | 70-126 | 7.27 | 30 | |
| 1,2-Dichloropropane | 19.5 | | µg/L | 20.00 | | 97.6 | 79.2-120 | 5.85 | 30 | |
| 2-Butanone | 19.7 | | µg/L | 20.00 | | 98.4 | 60.4-125 | 11.6 | 30 | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Volatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078758

| Sample ID: | LCS Dup (B078758-BSD1) | | | | Method: | SW-846 8260B | | Prepped: | 12/08/2015 09:34 | |
|----------------------------------|------------------------|-------|-------|-------|----------------|--------------|----------|------------------|------------------|------|
| Source: | | | | | | | | Analyzed: | 12/08/2015 13:40 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 2-Hexanone | 21.2 | | µg/L | 20.00 | | 106 | 49.5-119 | 14.0 | 30 | |
| 4-Methyl-2-Pentanone | 21.2 | | µg/L | 20.00 | | 106 | 59.4-125 | 12.9 | 30 | |
| Acetone | 17.5 | | µg/L | 20.00 | | 87.6 | 51.1-126 | 8.44 | 30 | |
| Acrolein | 41.3 | | µg/L | 20.00 | | 206 | 10-200 | 4.61 | 30 | S |
| Acrylonitrile | 22.1 | | µg/L | 20.00 | | 110 | 70.9-134 | 6.60 | 30 | |
| Benzene | 18.4 | | µg/L | 20.00 | | 92.0 | 80-120 | 5.07 | 30 | |
| Bromodichloromethane | 17.5 | | µg/L | 20.00 | | 87.6 | 76.4-118 | 4.31 | 30 | |
| Bromoform | 19.9 | | µg/L | 20.00 | | 99.4 | 66.4-120 | 8.55 | 30 | |
| Bromomethane | 23.5 | | µg/L | 20.00 | | 118 | 10-138 | 9.16 | 30 | |
| Carbon Disulfide | 20.3 | | µg/L | 20.00 | | 101 | 66.7-137 | 5.16 | 30 | |
| Carbon tetrachloride | 17.3 | | µg/L | 20.00 | | 86.6 | 73.7-128 | 5.88 | 30 | |
| Chlorobenzene | 20.4 | | µg/L | 20.00 | | 102 | 81-121 | 5.64 | 30 | |
| Chloroethane | 22.1 | | µg/L | 20.00 | | 110 | 59.5-142 | 6.30 | 30 | |
| Chloroform | 18.2 | | µg/L | 20.00 | | 91.0 | 79.3-122 | 3.98 | 30 | |
| Chloromethane | 24.6 | | µg/L | 20.00 | | 123 | 44.1-110 | 1.97 | 30 | S |
| cis-1,2-Dichloroethene | 17.9 | | µg/L | 20.00 | | 89.6 | 80-120 | 4.22 | 30 | |
| cis-1,3-Dichloropropene | 20.5 | | µg/L | 20.00 | | 103 | 80-120 | 5.30 | 30 | |
| Dibromochloromethane | 19.3 | | µg/L | 20.00 | | 96.4 | 79.7-118 | 7.43 | 30 | |
| Ethylbenzene | 20.2 | | µg/L | 20.00 | | 101 | 79.6-120 | 5.97 | 30 | |
| m,p-Xylene | 40.0 | | µg/L | 40.00 | | 99.9 | 79.6-120 | 5.48 | 30 | |
| Methylene chloride | 18.6 | | µg/L | 20.00 | | 93.0 | 67.4-112 | 3.61 | 30 | |
| Methyl-t-Butyl Ether | 18.4 | | µg/L | 20.00 | | 91.8 | 75.5-120 | 7.39 | 30 | |
| o-Xylene | 20.1 | | µg/L | 20.00 | | 100 | 76.1-116 | 5.06 | 30 | |
| Styrene | 20.0 | | µg/L | 20.00 | | 100 | 74.8-115 | 4.60 | 30 | |
| Tetrachloroethene | 19.6 | | µg/L | 20.00 | | 97.8 | 80.9-129 | 4.92 | 30 | |
| Toluene | 19.9 | | µg/L | 20.00 | | 99.4 | 81-121 | 5.53 | 30 | |
| trans-1,2-Dichloroethene | 16.6 | | µg/L | 20.00 | | 83.2 | 74.7-115 | 4.17 | 30 | |
| trans-1,3-Dichloropropene | 20.6 | | µg/L | 20.00 | | 103 | 76.2-116 | 7.02 | 30 | |
| Trichloroethene | 17.8 | | µg/L | 20.00 | | 89.2 | 82-127 | 4.65 | 30 | |
| Trichlorofluoromethane | 18.3 | | µg/L | 20.00 | | 91.5 | 52.4-134 | 6.55 | 30 | |
| Vinyl Acetate | 19.0 | | µg/L | 20.00 | | 95.0 | 31.7-138 | 7.93 | 30 | |
| Vinyl chloride | 20.3 | | µg/L | 20.00 | | 101 | 58.8-135 | 5.26 | 30 | |
| 1,2,4-Trimethylbenzene | 19.9 | | µg/L | 20.00 | | 99.3 | 78.6-124 | 5.11 | 30 | |
| 1,2-Dibromoethane | 20.9 | | µg/L | 20.00 | | 105 | 78.1-118 | 8.06 | 30 | |
| Isopropylbenzene | 20.2 | | µg/L | 20.00 | | 101 | 77-117 | 6.39 | 30 | |
| Naphthalene | 21.0 | | µg/L | 20.00 | | 105 | 34.6-127 | 7.04 | 30 | |
| Total Xylenes | 60.0 | | µg/L | 60.00 | | 100 | 78.5-119 | 5.34 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 24 | | µg/L | 25.00 | | 95.6 | 74.5-132 | | | |
| Surrogate: 4-Bromofluorobenzene | 25 | | µg/L | 25.00 | | 98.6 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 24 | | µg/L | 25.00 | | 97.2 | 80-120 | | | |
| Surrogate: Toluene-d8 | 26 | | µg/L | 25.00 | | 105 | 80-120 | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Volatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078763 **Prep:** SW-846 1311/<noprep>

TCLP VOA Zero Head Extraction

| Sample ID: | B078617-blk1 (B078763-BLK1) | | | | Method: | 1311/8260B | | Prepped: | 12/07/2015 08:53 | |
|---|-----------------------------|-------|-------|-------|----------------|------------|----------|------------------|------------------|------|
| Source: | | | | | | | | Analyzed: | 12/07/2015 12:36 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 1,1-Dichloroethene | ND | 0.050 | mg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.050 | mg/L | | | | | | | |
| 2-Butanone | ND | 0.10 | mg/L | | | | | | | |
| Benzene | 0.060 | 0.050 | mg/L | | | | | | | |
| Carbon tetrachloride | ND | 0.050 | mg/L | | | | | | | |
| Chlorobenzene | ND | 0.050 | mg/L | | | | | | | |
| Chloroform | ND | 0.050 | mg/L | | | | | | | |
| Tetrachloroethene | ND | 0.050 | mg/L | | | | | | | |
| Trichloroethene | ND | 0.050 | mg/L | | | | | | | |
| Vinyl chloride | ND | 0.020 | mg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.10 | mg/L | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 23 | | µg/L | 25.00 | | 91.4 | 74.5-132 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 24 | | µg/L | 25.00 | | 97.9 | 80-120 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 24 | | µg/L | 25.00 | | 95.3 | 80-120 | | | |
| <i>Surrogate: Toluene-d8</i> | 23 | | µg/L | 25.00 | | 93.8 | 80-120 | | | |

| Sample ID: | LCS (B078763-BS1) | | | | Method: | 1311/8260B | | Prepped: | 12/07/2015 08:53 | |
|---|-------------------|-------|-------|-------|----------------|------------|----------|------------------|------------------|------|
| Source: | | | | | | | | Analyzed: | 12/07/2015 10:46 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 1,1-Dichloroethene | 16.3 | | µg/L | 20.00 | | 81.4 | 58.5-104 | | | |
| 1,2-Dichloroethane | 18.8 | | µg/L | 20.00 | | 93.9 | 70-126 | | | |
| 2-Butanone | 18.0 | | µg/L | 20.00 | | 89.8 | 60.4-125 | | | |
| Benzene | 20.1 | | µg/L | 20.00 | | 100 | 80-120 | | | |
| Carbon tetrachloride | 18.1 | | µg/L | 20.00 | | 90.4 | 73.7-128 | | | |
| Chlorobenzene | 19.1 | | µg/L | 20.00 | | 95.4 | 81-121 | | | |
| Chloroform | 19.9 | | µg/L | 20.00 | | 99.5 | 79.3-122 | | | |
| Tetrachloroethene | 18.8 | | µg/L | 20.00 | | 94.2 | 80.9-129 | | | |
| Trichloroethene | 19.8 | | µg/L | 20.00 | | 99.0 | 82-127 | | | |
| Vinyl chloride | 20.8 | | µg/L | 20.00 | | 104 | 58.8-135 | | | |
| 1,4-Dichlorobenzene | 19.0 | | µg/L | 20.00 | | 95.0 | 80.3-121 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 22 | | µg/L | 25.00 | | 88.7 | 74.5-132 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 24 | | µg/L | 25.00 | | 96.4 | 80-120 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 24 | | µg/L | 25.00 | | 95.1 | 80-120 | | | |
| <i>Surrogate: Toluene-d8</i> | 24 | | µg/L | 25.00 | | 94.4 | 80-120 | | | |

| Sample ID: | Matrix Spike (B078763-MS1) | | | | Method: | 1311/8260B | | Prepped: | 12/07/2015 08:53 | |
|--------------------|----------------------------|-------|-------|-------|----------------|------------|----------|------------------|------------------|------|
| Source: | 15L0106-02 | | | | | | | Analyzed: | 12/07/2015 16:09 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 1,1-Dichloroethene | 161 | | µg/L | 200.0 | ND | 80.6 | 63.1-115 | | | |
| 1,2-Dichloroethane | 207 | | µg/L | 200.0 | ND | 104 | 40.4-163 | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **GCMS Volatiles - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078763 **Prep:** SW-846 1311/<noprep>

| Sample ID: | Matrix Spike (B078763-MS1) | | | | Method: | 1311/8260B | | Prepped: | 12/07/2015 08:53 | |
|----------------------------------|----------------------------|-------|-------|-------|----------------|------------|----------|------------------|------------------|------|
| Source: | 15L0106-02 | | | | | | | Analyzed: | 12/07/2015 16:09 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 2-Butanone | 261 | | µg/L | 200.0 | ND | 130 | 70.3-120 | | | S |
| Benzene | 208 | | µg/L | 200.0 | ND | 104 | 70.4-120 | | | |
| Carbon tetrachloride | 190 | | µg/L | 200.0 | ND | 95.0 | 76-131 | | | |
| Chlorobenzene | 196 | | µg/L | 200.0 | ND | 97.8 | 72.3-122 | | | |
| Chloroform | 207 | | µg/L | 200.0 | ND | 103 | 71.3-122 | | | |
| Tetrachloroethene | 184 | | µg/L | 200.0 | ND | 92.2 | 79-129 | | | |
| Trichloroethene | 202 | | µg/L | 200.0 | ND | 101 | 72.7-123 | | | |
| Vinyl chloride | 211 | | µg/L | 200.0 | ND | 106 | 58.1-121 | | | |
| 1,4-Dichlorobenzene | 188 | | µg/L | 200.0 | ND | 94.2 | 70.6-121 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 24 | | µg/L | 25.00 | | 95.9 | 74.5-132 | | | |
| Surrogate: 4-Bromofluorobenzene | 25 | | µg/L | 25.00 | | 99.3 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 25 | | µg/L | 25.00 | | 98.1 | 80-120 | | | |
| Surrogate: Toluene-d8 | 23 | | µg/L | 25.00 | | 92.1 | 80-120 | | | |

| Sample ID: | Matrix Spike Dup (B078763-MSD1) | | | | Method: | 1311/8260B | | Prepped: | 12/07/2015 08:53 | |
|----------------------------------|---------------------------------|-------|-------|-------|----------------|------------|----------|------------------|------------------|------|
| Source: | 15L0106-02 | | | | | | | Analyzed: | 12/07/2015 16:31 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| 1,1-Dichloroethene | 156 | | µg/L | 200.0 | ND | 78.0 | 63.1-115 | 3.28 | 30 | |
| 1,2-Dichloroethane | 204 | | µg/L | 200.0 | ND | 102 | 40.4-163 | 1.70 | 30 | |
| 2-Butanone | 269 | | µg/L | 200.0 | ND | 134 | 70.3-120 | 2.95 | 30 | S |
| Benzene | 200 | | µg/L | 200.0 | ND | 100 | 70.4-120 | 3.53 | 30 | |
| Carbon tetrachloride | 183 | | µg/L | 200.0 | ND | 91.6 | 76-131 | 3.64 | 30 | |
| Chlorobenzene | 191 | | µg/L | 200.0 | ND | 95.6 | 72.3-122 | 2.28 | 30 | |
| Chloroform | 200 | | µg/L | 200.0 | ND | 100 | 71.3-122 | 3.20 | 30 | |
| Tetrachloroethene | 180 | | µg/L | 200.0 | ND | 89.8 | 79-129 | 2.58 | 30 | |
| Trichloroethene | 196 | | µg/L | 200.0 | ND | 97.9 | 72.7-123 | 3.07 | 30 | |
| Vinyl chloride | 200 | | µg/L | 200.0 | ND | 100 | 58.1-121 | 5.10 | 30 | |
| 1,4-Dichlorobenzene | 187 | | µg/L | 200.0 | ND | 93.6 | 70.6-121 | 0.745 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 24 | | µg/L | 25.00 | | 96.6 | 74.5-132 | | | |
| Surrogate: 4-Bromofluorobenzene | 25 | | µg/L | 25.00 | | 100 | 80-120 | | | |
| Surrogate: Dibromofluoromethane | 24 | | µg/L | 25.00 | | 98.0 | 80-120 | | | |
| Surrogate: Toluene-d8 | 23 | | µg/L | 25.00 | | 92.6 | 80-120 | | | |

Analytical QC Summary

Client: Environmental Quality Management, Inc. **Metals - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078566 **Prep:** SW846 3005A

Total Metals by ICP

| | | | | | | | | | | | |
|-------------------|----------------------|--------|-------|-------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | Blank (B078566-BLK1) | | | | Method: | SW-846 6010C | | Prepped: | 12/03/2015 08:52 | | |
| Source: | | | | | | | | Analyzed: | 12/03/2015 18:25 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Arsenic | ND | 0.010 | mg/L | | | | | | | | |
| Barium | ND | 0.0020 | mg/L | | | | | | | | |
| Cadmium | ND | 0.0020 | mg/L | | | | | | | | |
| Chromium | ND | 0.0030 | mg/L | | | | | | | | |
| Lead | ND | 0.0075 | mg/L | | | | | | | | |
| Selenium | ND | 0.030 | mg/L | | | | | | | | |
| Silver | ND | 0.010 | mg/L | | | | | | | | |

| | | | | | | | | | | |
|-------------------|-------------------|--------|-------|--------|----------------|--------------|--------|------------------|------------------|------|
| Sample ID: | LCS (B078566-BS1) | | | | Method: | SW-846 6010C | | Prepped: | 12/03/2015 08:52 | |
| Source: | | | | | | | | Analyzed: | 12/03/2015 18:30 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Arsenic | 2.02 | 0.010 | mg/L | 2.000 | | 101 | 80-120 | | | |
| Barium | 2.21 | 0.0020 | mg/L | 2.200 | | 100 | 80-120 | | | |
| Cadmium | 0.204 | 0.0020 | mg/L | 0.2000 | | 102 | 80-120 | | | |
| Chromium | 1.99 | 0.0030 | mg/L | 2.000 | | 99.4 | 80-120 | | | |
| Lead | 2.04 | 0.0075 | mg/L | 2.000 | | 102 | 80-120 | | | |
| Selenium | 2.02 | 0.030 | mg/L | 2.000 | | 101 | 80-120 | | | |
| Silver | 0.208 | 0.010 | mg/L | 0.2000 | | 104 | 80-120 | | | |

| | | | | | | | | | | | |
|-------------------|----------------------------|--------|-------|--------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike (B078566-MS1) | | | | Method: | SW-846 6010C | | Prepped: | 12/03/2015 08:52 | | |
| Source: | 15L0112-04 | | | | | | | Analyzed: | 12/03/2015 19:44 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Arsenic | 2.11 | 0.010 | mg/L | 2.000 | ND | 105 | 75-125 | | | | |
| Barium | 2.28 | 0.0020 | mg/L | 2.200 | 0.0436 | 101 | 75-125 | | | | |
| Cadmium | 0.201 | 0.0020 | mg/L | 0.2000 | ND | 101 | 75-125 | | | | |
| Chromium | 2.00 | 0.0030 | mg/L | 2.000 | 0.000700 | 99.7 | 75-125 | | | | |
| Lead | 2.02 | 0.0075 | mg/L | 2.000 | ND | 101 | 75-125 | | | | |
| Selenium | 2.11 | 0.030 | mg/L | 2.000 | ND | 106 | 75-125 | | | | |
| Silver | 0.211 | 0.010 | mg/L | 0.2000 | ND | 106 | 75-125 | | | | |

| | | | | | | | | | | |
|-------------------|---------------------------------|--------|-------|--------|----------------|--------------|--------|------------------|------------------|------|
| Sample ID: | Matrix Spike Dup (B078566-MSD1) | | | | Method: | SW-846 6010C | | Prepped: | 12/03/2015 08:52 | |
| Source: | 15L0112-04 | | | | | | | Analyzed: | 12/03/2015 19:49 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Arsenic | 2.10 | 0.010 | mg/L | 2.000 | ND | 105 | 75-125 | 0.0950 | 20 | |
| Barium | 2.27 | 0.0020 | mg/L | 2.200 | 0.0436 | 101 | 75-125 | 0.264 | 20 | |
| Cadmium | 0.200 | 0.0020 | mg/L | 0.2000 | ND | 100 | 75-125 | 0.648 | 20 | |
| Chromium | 1.99 | 0.0030 | mg/L | 2.000 | 0.000700 | 99.4 | 75-125 | 0.301 | 20 | |
| Lead | 2.01 | 0.0075 | mg/L | 2.000 | ND | 100 | 75-125 | 0.596 | 20 | |
| Selenium | 2.10 | 0.030 | mg/L | 2.000 | ND | 105 | 75-125 | 0.475 | 20 | |
| Silver | 0.211 | 0.010 | mg/L | 0.2000 | ND | 105 | 75-125 | 0.237 | 20 | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **Metals - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078577 **Prep:** SW-846 7470

Total Mercury by CVAA

| | | | | | | | | | | | |
|-------------------|----------------------|---------|-------|-------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | Blank (B078577-BLK1) | | | | Method: | SW-846 7470A | | Prepped: | 12/03/2015 09:17 | | |
| Source: | | | | | | | | Analyzed: | 12/03/2015 13:05 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Mercury | ND | 0.00020 | mg/L | | | | | | | | |

| | | | | | | | | | | | |
|-------------------|-------------------|---------|-------|----------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | LCS (B078577-BS1) | | | | Method: | SW-846 7470A | | Prepped: | 12/03/2015 09:17 | | |
| Source: | | | | | | | | Analyzed: | 12/03/2015 13:06 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Mercury | 0.00195 | 0.00020 | mg/L | 0.002000 | | 97.5 | 80-120 | | | | |

| | | | | | | | | | | | |
|-------------------|----------------------------|---------|-------|----------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike (B078577-MS1) | | | | Method: | SW-846 7470A | | Prepped: | 12/03/2015 09:17 | | |
| Source: | 15L0057-01 | | | | | | | Analyzed: | 12/03/2015 13:11 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Mercury | 0.00188 | 0.00020 | mg/L | 0.002000 | ND | 93.8 | 75-125 | | | | |

| | | | | | | | | | | | |
|-------------------|----------------------------|---------|-------|----------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike (B078577-MS2) | | | | Method: | SW-846 7470A | | Prepped: | 12/03/2015 09:17 | | |
| Source: | 15L0111-03 | | | | | | | Analyzed: | 12/03/2015 13:22 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Mercury | 0.00204 | 0.00020 | mg/L | 0.002000 | ND | 102 | 75-125 | | | | |

| | | | | | | | | | | | |
|-------------------|---------------------------------|---------|-------|----------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike Dup (B078577-MSD1) | | | | Method: | SW-846 7470A | | Prepped: | 12/03/2015 09:17 | | |
| Source: | 15L0057-01 | | | | | | | Analyzed: | 12/03/2015 13:12 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Mercury | 0.00204 | 0.00020 | mg/L | 0.002000 | ND | 102 | 75-125 | 8.57 | 20 | | |

| | | | | | | | | | | | |
|-------------------|---------------------------------|---------|-------|----------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike Dup (B078577-MSD2) | | | | Method: | SW-846 7470A | | Prepped: | 12/03/2015 09:17 | | |
| Source: | 15L0111-03 | | | | | | | Analyzed: | 12/03/2015 13:44 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Mercury | 0.00185 | 0.00020 | mg/L | 0.002000 | ND | 92.3 | 75-125 | 9.98 | 20 | | |

Batch: B078634 **Prep:** SW-846 1311/SW-846 7470

TCLP Mercury by CVAA

| | | | | | | | | | | | |
|-------------------|----------------------|--------|-------|-------|----------------|------------|--------|------------------|------------------|------|--|
| Sample ID: | Blank (B078634-BLK1) | | | | Method: | 1311/7470A | | Prepped: | 12/09/2015 14:30 | | |
| Source: | | | | | | | | Analyzed: | 12/09/2015 16:30 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | | |

| | | | | | | | | | | | |
|-------------------|-------------------|--------|-------|----------|----------------|------------|--------|------------------|------------------|------|--|
| Sample ID: | LCS (B078634-BS1) | | | | Method: | 1311/7470A | | Prepped: | 12/09/2015 14:30 | | |
| Source: | | | | | | | | Analyzed: | 12/09/2015 16:32 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Mercury | 0.00202 | 0.0010 | mg/L | 0.002000 | | 101 | 80-120 | | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **Metals - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078634 **Prep:** SW-846 1311/SW-846 7470

| | | | | | | | | | | |
|-------------------|----------------------------|--------|-------|----------|----------------|------------|--------|------------------|------------------|------|
| Sample ID: | Matrix Spike (B078634-MS1) | | | | Method: | 1311/7470A | | Prepped: | 12/09/2015 14:30 | |
| Source: | 15L0106-05 | | | | | | | Analyzed: | 12/09/2015 16:34 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Mercury | 0.00199 | 0.0010 | mg/L | 0.002000 | ND | 99.6 | 50-150 | | | |

| | | | | | | | | | | |
|-------------------|---------------------------------|--------|-------|----------|----------------|------------|--------|------------------|------------------|------|
| Sample ID: | Matrix Spike Dup (B078634-MSD1) | | | | Method: | 1311/7470A | | Prepped: | 12/09/2015 14:30 | |
| Source: | 15L0106-05 | | | | | | | Analyzed: | 12/09/2015 16:35 | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Mercury | 0.00195 | 0.0010 | mg/L | 0.002000 | ND | 97.5 | 50-150 | 2.08 | 20 | |

Analytical QC Summary

Client: Environmental Quality Management, Inc. **TCLP Metals - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078631 **Prep:** SW-846 1311/SW846 3005A

TCLP Metals by ICP

| | | | | | | | | | | |
|-------------------|----------------------|---------|-------|----------------|------------|------|------------------|------------------|-------|------|
| Sample ID: | Blank (B078631-BLK1) | | | Method: | 1311/6010C | | Prepped: | 12/04/2015 08:58 | | |
| Source: | | | | | | | Analyzed: | 12/04/2015 16:08 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Arsenic | ND | 0.0100 | mg/L | | | | | | | |
| Barium | ND | 0.500 | mg/L | | | | | | | |
| Cadmium | ND | 0.00200 | mg/L | | | | | | | |
| Chromium | ND | 0.00300 | mg/L | | | | | | | |
| Lead | ND | 0.00750 | mg/L | | | | | | | |
| Selenium | ND | 0.0300 | mg/L | | | | | | | |
| Silver | ND | 0.0100 | mg/L | | | | | | | |

| | | | | | | | | | | | |
|------------|-------------------|---------|-------|--------|---------|------------|--------|-----------|------------------|------|--|
| Sample ID: | LCS (B078631-BS1) | | | | Method: | 1311/6010C | | Prepped: | 12/04/2015 08:58 | | |
| Source: | | | | | | | | Analyzed: | 12/04/2015 16:14 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Arsenic | 2.32 | 0.0100 | mg/L | 2.000 | | 116 | 80-120 | | | | |
| Barium | 2.18 | 0.500 | mg/L | 2.200 | | 98.9 | 80-120 | | | | |
| Cadmium | 0.194 | 0.00200 | mg/L | 0.2000 | | 97.0 | 80-120 | | | | |
| Chromium | 1.92 | 0.00300 | mg/L | 2.000 | | 96.2 | 80-120 | | | | |
| Lead | 1.82 | 0.00750 | mg/L | 2.000 | | 91.0 | 80-120 | | | | |
| Selenium | 2.46 | 0.0300 | mg/L | 2.000 | | 123 | 80-120 | | | S | |
| Silver | 0.220 | 0.0100 | mg/L | 0.2000 | | 110 | 80-120 | | | | |

| | | | | | | | | | | |
|-------------------------------------|--|--------------|--------------|----------------|---------------|-------------|------------------|------------------|--------------|-------------|
| Sample ID: Source: | Matrix Spike (B078631-MS1) 15L0106-05 | | | Method: | 1311/6010C | | Prepped: | 12/04/2015 08:58 | | |
| | | | | | | | Analyzed: | 12/04/2015 16:24 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Arsenic | 2.34 | 0.0100 | mg/L | 2.000 | ND | 117 | 50-200 | | | |
| Barium | 2.61 | 0.500 | mg/L | 2.200 | 0.412 | 99.9 | 50-200 | | | |
| Cadmium | 0.185 | 0.00200 | mg/L | 0.2000 | 0.000500 | 92.2 | 50-200 | | | |
| Chromium | 1.84 | 0.00300 | mg/L | 2.000 | ND | 91.8 | 50-200 | | | |
| Lead | 1.76 | 0.00750 | mg/L | 2.000 | ND | 88.0 | 50-200 | | | |
| Selenium | 2.50 | 0.0300 | mg/L | 2.000 | 0.0180 | 124 | 50-200 | | | |
| Silver | 0.223 | 0.0100 | mg/L | 0.2000 | ND | 112 | 50-200 | | | |

| | | | | | | | | | | |
|-------------------|---------------------------------|--------------|--------------|----------------|---------------|-------------|------------------|------------------|--------------|-------------|
| Sample ID: | Matrix Spike Dup (B078631-MSD1) | | | Method: | 1311/6010C | | Prepped: | 12/04/2015 08:58 | | |
| Source: | 15L0106-05 | | | | | | Analyzed: | 12/04/2015 16:29 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
| Arsenic | 2.38 | 0.0100 | mg/L | 2.000 | ND | 119 | 50-200 | 1.31 | 20 | |
| Barium | 2.63 | 0.500 | mg/L | 2.200 | 0.412 | 101 | 50-200 | 0.801 | 20 | |
| Cadmium | 0.183 | 0.00200 | mg/L | 0.2000 | 0.000500 | 91.4 | 50-200 | 0.924 | 20 | |
| Chromium | 1.85 | 0.00300 | mg/L | 2.000 | ND | 92.6 | 50-200 | 0.813 | 20 | |
| Lead | 1.77 | 0.00750 | mg/L | 2.000 | ND | 88.4 | 50-200 | 0.397 | 20 | |
| Selenium | 2.57 | 0.0300 | mg/L | 2.000 | 0.0180 | 128 | 50-200 | 2.80 | 20 | |
| Silver | 0.227 | 0.0100 | mg/L | 0.2000 | ND | 114 | 50-200 | 1.64 | 20 | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **Wet Chemistry - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078585 **Prep:** Solid CN Distillation

Total Cyanide

| | | | | | | | | | | | |
|-------------------|----------------------|--------|-------|-------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | Blank (B078585-BLK1) | | | | Method: | SW-846 9012B | | Prepped: | 12/03/2015 11:35 | | |
| Source: | | | | | | | | Analyzed: | 12/03/2015 14:24 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Cyanide, Total | ND | 0.0050 | mg/Kg | | | | | | | | |

| | | | | | | | | | | | |
|-------------------|-------------------|--------|-------|--------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | LCS (B078585-BS1) | | | | Method: | SW-846 9012B | | Prepped: | 12/03/2015 11:35 | | |
| Source: | | | | | | | | Analyzed: | 12/03/2015 14:26 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Cyanide, Total | 0.185 | 0.0050 | mg/Kg | 0.2000 | | 92.4 | 90-110 | | | | |

| | | | | | | | | | | | |
|-------------------|----------------------------|-------|-------|-------|----------------|--------------|----------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike (B078585-MS1) | | | | Method: | SW-846 9012B | | Prepped: | 12/03/2015 11:35 | | |
| Source: | 15L0072-01 | | | | | | | Analyzed: | 12/03/2015 14:31 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Cyanide, Total | 8.44 | 0.25 | mg/Kg | 9.804 | ND | 86.1 | 69.4-116 | | | | |

| | | | | | | | | | | | |
|-------------------|---------------------------------|-------|-------|-------|----------------|--------------|----------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike Dup (B078585-MSD1) | | | | Method: | SW-846 9012B | | Prepped: | 12/03/2015 11:35 | | |
| Source: | 15L0072-01 | | | | | | | Analyzed: | 12/03/2015 14:33 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Cyanide, Total | 8.92 | 0.25 | mg/Kg | 9.901 | ND | 90.1 | 69.4-116 | 5.57 | 20 | | |

Batch: B078728

Ignitability (Closed Cup)

| | | | | | | | | | | | |
|-------------------|-------------------|-------|-------|-------|----------------|--------------|--------|------------------|------------------|------|--|
| Sample ID: | LCS (B078728-BS1) | | | | Method: | SW-846 1010A | | Prepped: | 12/07/2015 12:35 | | |
| Source: | | | | | | | | Analyzed: | 12/07/2015 12:35 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Ignitability | 79.0 | 30 | °F | 77.00 | | 103 | 95-105 | | | | |

Batch: B078766 **Prep:** Sulfide Distillation

Total Sulfide

| | | | | | | | | | | | |
|-------------------|----------------------|-------|-------|-------|----------------|-------------------|--------|------------------|------------------|------|--|
| Sample ID: | Blank (B078766-BLK1) | | | | Method: | SM 4500-S2 D-2000 | | Prepped: | 12/08/2015 10:10 | | |
| Source: | | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Sulfide | ND | 0.050 | mg/L | | | | | | | | |

| | | | | | | | | | | | |
|-------------------|-------------------|-------|-------|-------|----------------|-------------------|--------|------------------|------------------|------|--|
| Sample ID: | LCS (B078766-BS1) | | | | Method: | SM 4500-S2 D-2000 | | Prepped: | 12/08/2015 10:10 | | |
| Source: | | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Sulfide | 5.25 | 0.50 | mg/L | 5.002 | | 105 | 90-110 | | | | |

| | | | | | | | | | | | |
|-------------------|----------------------------|-------|-------|-------|----------------|-------------------|--------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike (B078766-MS1) | | | | Method: | SM 4500-S2 D-2000 | | Prepped: | 12/08/2015 10:10 | | |
| Source: | 15L0183-01 | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| | | | | | | | | | | | |

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **Wet Chemistry - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI
Batch: B078766 **Prep:** Sulfide Distillation

| | | | | | | | | | | | |
|-------------------|----------------------------|-------|-------|-------|----------------|-------------------|----------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike (B078766-MS1) | | | | Method: | SM 4500-S2 D-2000 | | Prepped: | 12/08/2015 10:10 | | |
| Source: | 15L0183-01 | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Sulfide | ND | 0.50 | mg/L | 5.002 | ND | | 61.1-149 | | | | |

| | | | | | | | | | | | |
|-------------------|---------------------------------|-------|-------|-------|----------------|-------------------|----------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike Dup (B078766-MSD1) | | | | Method: | SM 4500-S2 D-2000 | | Prepped: | 12/08/2015 10:10 | | |
| Source: | 15L0183-01 | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Sulfide | ND | 0.50 | mg/L | 5.002 | ND | | 61.1-149 | | 20 | | |

| | | | | | | | | | | | |
|-------------------|--------------------------|-------|-------|--------|----------------|-------------------|--------|------------------|------------------|------|--|
| Sample ID: | Post Spike (B078766-PS1) | | | | Method: | SM 4500-S2 D-2000 | | Prepped: | 12/08/2015 10:10 | | |
| Source: | 15L0183-01 | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Sulfide | -0.0330 | | mg/L | 0.2501 | -0.0290 | | 80-120 | | | | |

Batch: B078767 **Prep:** Sulfide Distillation

Total Sulfide

| | | | | | | | | | | | |
|-------------------|----------------------|-------|-------|-------|----------------|------------------|--------|------------------|------------------|------|--|
| Sample ID: | Blank (B078767-BLK1) | | | | Method: | SW-846 9030B MOD | | Prepped: | 12/08/2015 10:10 | | |
| Source: | | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Sulfide | ND | 0.050 | mg/Kg | | | | | | | | |

| | | | | | | | | | | | |
|-------------------|-------------------|-------|-------|-------|----------------|------------------|--------|------------------|------------------|------|--|
| Sample ID: | LCS (B078767-BS1) | | | | Method: | SW-846 9030B MOD | | Prepped: | 12/08/2015 10:10 | | |
| Source: | | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Sulfide | 5.25 | 0.50 | mg/Kg | 5.002 | | 105 | 10-161 | | | | |

| | | | | | | | | | | | |
|-------------------|----------------------------|-------|-------|-------|----------------|------------------|--------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike (B078767-MS1) | | | | Method: | SW-846 9030B MOD | | Prepped: | 12/08/2015 10:10 | | |
| Source: | 15L0144-02 | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Sulfide | 143 | 23 | mg/Kg | 229.4 | 6.10 | 62.2 | 61-149 | | | | |

| | | | | | | | | | | | |
|-------------------|---------------------------------|-------|-------|-------|----------------|------------------|--------|------------------|------------------|------|--|
| Sample ID: | Matrix Spike Dup (B078767-MSD1) | | | | Method: | SW-846 9030B MOD | | Prepped: | 12/08/2015 10:10 | | |
| Source: | 15L0144-02 | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Sulfide | 222 | 23 | mg/Kg | 229.4 | 6.10 | 96.8 | 61-149 | 43.5 | 20 | R | |

| | | | | | | | | | | | |
|-------------------|--------------------------|-------|-------|--------|----------------|------------------|--------|------------------|------------------|------|--|
| Sample ID: | Post Spike (B078767-PS1) | | | | Method: | SW-846 9030B MOD | | Prepped: | 12/08/2015 10:10 | | |
| Source: | 15L0144-02 | | | | | | | Analyzed: | 12/08/2015 17:10 | | |
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual | |
| Sulfide | 0.336 | | mg/Kg | 0.2501 | 0.128 | 83.2 | 80-120 | | | | |

Batch: B078808 **Prep:** Aqueous CN Distillation

Total Cyanide

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Analytical QC Summary

Client: Environmental Quality Management, Inc. **Wet Chemistry - Quality Control**
Work Order: 15L0144
Project: 030281.0162 / Spencer Drum / Spencer, WI

Batch: B078808 **Prep:** Aqueous CN Distillation

Sample ID: Blank (B078808-BLK1) **Method:** SW-846 9012B **Prepped:** 12/09/2015 10:00

Source: **Analyzed:** 12/09/2015 12:54

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
|----------------|--------|--------|-------|-------|--------|------|--------|-----|-------|------|
| Cyanide, Total | ND | 0.0050 | mg/L | | | | | | | |

Sample ID: LCS (B078808-BS1) **Method:** SW-846 9012B **Prepped:** 12/09/2015 10:00

Source: **Analyzed:** 12/09/2015 12:55

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
|----------------|--------|--------|-------|--------|--------|------|--------|-----|-------|------|
| Cyanide, Total | 0.212 | 0.0050 | mg/L | 0.2000 | | 106 | 90-110 | | | |

Sample ID: Matrix Spike (B078808-MS1) **Method:** SW-846 9012B **Prepped:** 12/09/2015 10:00

Source: 15L0265-01 **Analyzed:** 12/09/2015 13:14

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
|----------------|--------|--------|-------|--------|--------|------|----------|-----|-------|------|
| Cyanide, Total | 0.243 | 0.0050 | mg/L | 0.2000 | 0.0331 | 105 | 86.7-110 | | | |

Sample ID: Matrix Spike (B078808-MS2) **Method:** SW-846 9012B **Prepped:** 12/09/2015 10:00

Source: 15L0272-01 **Analyzed:** 12/09/2015 13:21

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
|----------------|--------|--------|-------|--------|--------|------|----------|-----|-------|------|
| Cyanide, Total | 0.208 | 0.0050 | mg/L | 0.2000 | ND | 104 | 86.7-110 | | | |

Sample ID: Matrix Spike Dup (B078808-MSD1) **Method:** SW-846 9012B **Prepped:** 12/09/2015 10:00

Source: 15L0265-01 **Analyzed:** 12/09/2015 13:15

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
|----------------|--------|--------|-------|--------|--------|------|----------|------|-------|------|
| Cyanide, Total | 0.223 | 0.0050 | mg/L | 0.2000 | 0.0331 | 95.0 | 86.7-110 | 8.58 | 20 | |

Sample ID: Matrix Spike Dup (B078808-MSD2) **Method:** SW-846 9012B **Prepped:** 12/09/2015 10:00

Source: 15L0272-01 **Analyzed:** 12/09/2015 13:22

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
|----------------|--------|--------|-------|--------|--------|------|----------|------|-------|------|
| Cyanide, Total | 0.216 | 0.0050 | mg/L | 0.2000 | ND | 108 | 86.7-110 | 3.96 | 20 | |

Batch: B078835

pH

Sample ID: Duplicate (B078835-DUP1) **Method:** SW-846 9045D **Prepped:** 12/09/2015 13:50

Source: 15L0445-02 **Analyzed:** 12/09/2015 13:50

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Qual |
|---------|--------|-------|------------|-------|--------|------|--------|-------|-------|------|
| pH | 8.810 | 2.00 | pH at 25°C | | 8.790 | | | 0.227 | 20 | |

1570144

COC Tracking:
EQ-10000

[illegible]

15L0144 Kristen Genbach
EQM - Cincinnati, OH
Spencer Drum / Spencer, WI
12/02/2015

Distribution: White - Accompanies Shipment Pink - Project Files Yellow - Laboratory File

Yellow - Laboratory File

Pink - Project Files

Companies Shipment

White - Accomplish

Distribution

APPENDIX F
WASTE MANIFESTS

| | | | | | | |
|--|--|--|--|--|---|-------------------|
| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator ID Number NICESQG | 2. Page 1 of 1 | 3. Emergency Response Phone 877-437-7455 | 4. Manifest Tracking Number 015201044 JJK | |
| 5. Generator's Name and Mailing Address USEPA/Spencer Drum Site 2984 Shawano Ave Green Bay, WI 54313 | | | Generator's Site Address (if different than mailing address) 408 E. Willow Drive Spencer, WI 54479 | | | |
| 6. Transporter 1 Company Name SET Environmental, Inc. | | | U.S. EPA ID Number IID981957236 | | | |
| 7. Transporter 2 Company Name | | | U.S. EPA ID Number | | | |
| 8. Designated Facility Name and Site Address SET Environmental, Inc. 5743 Cheswood | | | U.S. EPA ID Number TXD055135388 | | | |
| Facility's Phone: Houston, TX 77087 | | | (713) 645-8710 | | | |
| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. Type | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
| 1. | Not Regulated | 5 TP 1250 G | | | | |
| 2. | Not Regulated | 3 DR 165 G | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 14. Special Handling Instructions and Additional Information 1=117074:Non-Hazardous Liquids 2=117074:Non-Hazardous Liquids 5/10/85 (3x85) | | | | | | |
| 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 Yancy Harker | | Signature <i>[Signature]</i> | | Month 1 | Day 5 | Year 16 |
| 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____ | | | | | | |
| 17. Transporter Acknowledgment of Receipt of Materials | | | | | | |
| Transporter 1 Printed/Typed Name ITCIS Services | | Signature <i>[Signature]</i> | | Month 1 | Day 5 | Year 16 |
| 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. H141 | 2. H141 | 3. | 4. | | | |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a | | | | | | |
| Printed/Typed Name | | Signature | | Month | Day | Year |

APPENDIX G
EPA POLLUTION SITUATION REPORTS (POLREP) NO. 1 AND 2

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Spencer Drum - Removal Polrep
Initial Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #1
Initial
Spencer Drum
C58F
Spencer, WI
Latitude: 44.7514080 Longitude: -90.2956030

To: Tom Kendzierski, WDNR

From: Kathy Halbur, OSC

Date: 12/3/2015

Reporting Period: 11/30/2015-12/3/2015

1. Introduction

1.1 Background

| | | | |
|----------------------------|--------------|--------------------------------|----------------|
| Site Number: | C58F | Contract Number: | EP-S5-08-02 |
| D.O. Number: | 162 | Action Memo Date: | 10/15/2015 |
| Response Authority: | CERCLA | Response Type: | Time-Critical |
| Response Lead: | EPA | Incident Category: | Removal Action |
| NPL Status: | Non NPL | Operable Unit: | |
| Mobilization Date: | 11/30/2015 | Start Date: | 11/30/2015 |
| Demob Date: | 12/3/2015 | Completion Date: | |
| CERCLIS ID: | WIN000506078 | RCRIS ID: | |
| ERNS No.: | | State Notification: | 20150623WC37-1 |
| FPN#: | | Reimbursable Account #: | |

1.1.1 Incident Category

Time critical removal action.

1.1.2 Site Description

The Spencer Drum Site is an approximately 17,000 square foot warehouse located in a mixed residential and commercial area in Spencer, Marathon County, WI. The building contains two rooms, a larger room to the north and a much smaller room to the south. The larger room was operated as a mechanic shop from 2012 until December 2014 when the owner suddenly passed away. Prior to 2012, the entire warehouse housed a liquidation company and retail shop, Don Smith Sales.

The smaller of the two rooms in the warehouse contains approximately 90 drums that are in extremely poor

condition. Many of the drums are leaking and some are bulging. The drums were reportedly acquired in the 1970s by the liquidation company. Almost all of the drums are unlabeled and there are no records available regarding the contents of the drums. A Wisconsin Department of Natural Resources (WDNR) Warden interviewed representatives from Don Smith Sales, but was unable to gather any credible information about the origin or contents of the drums.

WDNR received an anonymous notification of the drums on June 23, 2015. Shortly thereafter, WDNR requested assistance from the EPA Emergency Response Branch.

1.1.2.1 Location

The Site is located at 408 E. Willow Drive, Spencer, Marathon County, WI 54479 (Parcels 181-2602-082-9915 and 181-2602-082-9906) in a mixed residential and commercial area. The geographic coordinates for the Site are Latitude: 44.752219, Longitude: -90.296194. Commercial properties neighbor the Site to the north and the east. The Spencer Area Fire Department station borders the Site to the South. A residential neighborhood borders the Site to the west. The closest residence is located approximately 200 feet to the west of the property. A municipal water tower is approximately 100 feet to the northwest of the warehouse.

1.1.2.2 Description of Threat

Approximately 90 drums of unknown contents are being stored improperly at the Site. Many of the drums are failing and are already leaking their contents onto the floor. It is possible that the spilled material has migrated beyond the concrete floor into the sub-slab and/or under the foundation. In addition to leaking drums, there are also bulging drums at the Site. Hazardous characteristics of stored materials was confirmed by EPA and local fire officials. These materials are defined as hazardous substances in 40 CFR §302.4 and hazardous waste in 40 CFR §261.24.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

On July 21, 2015, EPA OSC Kathy Halbur conducted a reconnaissance visit with WDNR Regional Spills Coordinator Tom Kendzierski. On August 27, 2015, the Marathon County Hazardous Materials Team, Spencer Fire, Wausau Fire, Marathon County Emergency Management, Wisconsin Emergency Management (WEM), WDNR, and EPA conducted an exercise at the Site. Approximately one third of the drums stored at the Site were screened with a Multi-Rae Pro for volatile organic compounds (VOCs), gamma radiation, lower explosive limit, oxygen level, carbon monoxide, and hydrogen sulfide levels. The temperature of the selected drums was also screened with a Fluke Infrared Thermometer and the condition of the selected drums was assessed. Elevated VOC concentrations were detected from every drum screened; levels ranged from 224 to 99,000 parts per billion (ppb). Temperatures were relatively consistent, ranging from 62-67°F.

Twelve drums were sampled for additional screening and limited hazcatting. Almost all of the samples collected were multi-phase; the materials are so old that they are solidifying. Types of additional screening conducted included general appearance, pH, flammability (pass/fail), water solubility, density, "Spilfyter" strips, Hazmat ID, and Ahura First Defender. Corrosivity and flammability of some of the materials being stored in the warehouse was confirmed using the Spilfyter strips. Many of the drums' contents have leaked onto the floor. Contents from the leaking drums has comeingled on the floor of the warehouse. Kitty litter had been previously spread to contain spilled material. The drums are stored very close together. Bulging drums were observed, but not assessed during the exercise due to safety concerns.

2. Current Activities

2.1 Operations Section

2.1.1 Response Actions to Date

During this reporting period (11/30/15-12/3/15), the following activities occurred:

- Mobilized ERRS, START, and EPA crew and equipment to Site;
- Established support and exclusion zones;
- Sampled all waste drums and containers (Level B PPE);
- Conducted hazard characterization analysis for all sampled waste;
- Combined waste streams with similar characteristics into test batches;
- Collected waste disposal samples for laboratory analysis;
- Repackaged liquid waste for shipment;
- Labeled and segregated hazardous waste;
- Conducted air monitoring in accordance with the Air Monitoring Plan;
- Demobilized crew and equipment.

2.1.2 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

EPA sent General Notice of Liability letters to the property owner and Don Smith. Neither PRP was able to conduct the necessary removal action.

2.1.3 Progress Metrics

| <i>Waste Stream</i> | <i>Quantity</i> | <i>Manifest #</i> | <i>Disposal</i> |
|----------------------------|------------------------|--------------------------|------------------------|
| Neutral Liquids | TBD | NA | TBD |
| Neutral Solids | TBD | NA | TBD |
| Flammable Liquids | TBD | TBD | TBD |
| Flammable Solids | TBD | TBD | TBD |
| RCRA Empty Drums & Debris | TBD | NA | TBD |

2.2 Planning Section

2.2.1 Planned Response Activities & Next Steps

The following activities are planned for the next reporting period:

- Obtain and review laboratory analysis of disposal samples;
- Obtain bids for disposal and select CERCLA approved disposal facilities;
- Remobilize ERRS, START, and EPA personnel to Site;
- Prepare solid wastes for shipment;
- Transport waste for off-site disposal;
- Clean and assess floor; and
- Conduct air monitoring.

2.2.2 Issues

Increasingly cold temperatures are making working conditions difficult and causing the liquid wastes to freeze.

2.3 Logistics Section

The Spencer Fire Department is providing logistical support for the removal action.

2.4 Finance Section

ERRS: Environmental Quality Management (and Veolia)

START: Tetra Tech

2.5 Other Command Staff

2.5.1 Safety Officer

No safety incidents during this reporting period. Drum sampling was conducted in Level B PPE.

2.5.2 Liaison Officer

EPA OSC Halbur is the Liaison Officer for this removal action. The Spencer Fire Chief, representatives from WDNR, and the property owner visited the Site during this reporting period.

2.5.3 Information Officer

EPA OSC Halbur is the Information Officer for this removal action.

3. Participating Entities

3.1 Cooperating Agencies

Spencer Fire Department
Wisconsin Department of Natural Resources
Wisconsin Emergency Management

4. Personnel On Site

EPA: 1

ERRS: 6

START: 1

5. Definition of Terms

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
EPA: Environmental Protection Agency
ERRS: Emergency and Rapid Response Services
OSC: On-Scene Coordinator
PPE: Personal Protective Equipment
PRP: Potentially Responsible Party
START: Superfund Technical Assessment and Response Team
TBD: To be determined
VOC: Volatile Organic Compound
WDNR: Wisconsin Department of Natural Resources
WEM: Wisconsin Emergency Management

6. Additional sources of information

6.1 Internet location of additional information/report

The Administrative Record is available at the Spencer Village Hall, 105 Park St., Spencer, WI 54479.

Additional information about the removal is available at www.epaosc.org/spencerdrum.

6.2 Reporting Schedule

The next POLREP will be issued when the waste is shipped off-site, expected in early January, 2016.

7. Situational Reference Materials

No information available at this time.

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Spencer Drum - Removal Polrep
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #2
Final
Spencer Drum
C58F
Spencer, WI
Latitude: 44.7514080 Longitude: -90.2956030

To: Tom Kendzierski, WDNR

From: Kathy Halbur, OSC

Date: 1/13/2016

Reporting Period: 12/4/2016-1/13/2016

1. Introduction

1.1 Background

| | | | |
|----------------------------|--------------|--------------------------------|----------------|
| Site Number: | C58F | Contract Number: | EP-S5-08-02 |
| D.O. Number: | 162 | Action Memo Date: | 10/15/2015 |
| Response Authority: | CERCLA | Response Type: | Time-Critical |
| Response Lead: | EPA | Incident Category: | Removal Action |
| NPL Status: | Non NPL | Operable Unit: | |
| Mobilization Date: | 11/30/2015 | Start Date: | 11/30/2015 |
| Demob Date: | 1/6/2016 | Completion Date: | 1/13/2016 |
| CERCLIS ID: | WIN000506078 | RCRIS ID: | |
| ERNS No.: | | State Notification: | 20150623WC37-1 |
| FPN#: | | Reimbursable Account #: | |

1.1.1 Incident Category

Time critical removal action.

1.1.2 Site Description

The Spencer Drum Site is an approximately 17,000 square foot warehouse located in a mixed residential and commercial area in Spencer, Marathon County, WI. The building contains two rooms, a larger room to the north and a much smaller room to the south. The larger room was operated as a mechanic shop from 2012 until December 2014 when the owner suddenly passed away. Prior to 2012, the entire warehouse housed a liquidation company and retail shop, Don Smith Sales. The smaller of the two rooms in the warehouse contained approximately 90 unlabeled drums that were in extremely poor condition. Many of the drums were leaking and some were bulging.

1.1.2.1 Location

The Site is located at 408 E. Willow Drive, Spencer, Marathon County, WI 54479 (Parcels 181-2602-082-9915 and 181-2602-082-9906) in a mixed residential and commercial area. The geographic coordinates for the Site are Latitude: 44.752219, Longitude: -90.296194. Commercial properties neighbor the Site to the north and the east. The Spencer Area Fire Department station borders the Site to the South. A residential neighborhood borders the Site to the west. The closest residence is located approximately 200 feet to the west of the property. A municipal water tower is approximately 100 feet to the northwest of the warehouse.

1.1.2.2 Description of Threat

Approximately 90 drums of unknown contents were being stored improperly at the Site. Many of the drums were failing and already leaking their contents onto the floor. In addition to leaking drums, there were also bulging drums at the Site. Hazardous characteristics of stored materials was confirmed by EPA and local fire officials. These materials are defined as hazardous substances in 40 CFR §302.4 and hazardous waste in 40 CFR §261.24.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See Initial POLREP for this information.

2. Current Activities

2.1 Operations Section

2.1.1 Response Actions to Date

See Initial POLREP for information regarding first mobilization (11/30/15-12/3/15).

During this reporting period (12/4/15-1/13/15), the following activities occurred:

- Analyzed waste disposal samples;
- Obtained bids for disposal and selected CERCLA approved disposal facilities;
- Established waste profiles;
- Remobilized ERRS, START, and EPA personnel and equipment to Site;
- Repackaged sludges and solid waste for shipment;
- Prepared RCRA empty drums for disposal;
- Cleaned and assessed floor under spilled drums;
- Transported waste for off-site disposal;
- Conducted air monitoring in accordance with the air monitoring plan; and
- Demobilized crew and equipment.

2.1.2 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

EPA sent General Notice of Liability letters to the property owner and Don Smith. Neither PRP was able to conduct the necessary removal action.

2.1.3 Progress Metrics

| <i>Waste Stream</i> | <i>Quantity</i> | <i>Manifest #</i> | <i>Disposal</i> |
|---------------------------------|------------------------|--------------------------|--|
| Bulked Neutral Liquids | 1250 Gallons | 015201044JJK | SET Environmental Houston, TX |
| Combustible Liquids | 165 Gallons | 015201044JJK | SET Environmental Houston, TX |
| Bulked Neutral Sludges & Solids | 7.1 Tons | 124158WI | WM Valley Trail Landfill Berlin, WI |

| | | | |
|---------------------------|--------|----------|--|
| RCRA Empty Drums & Debris | 5 Tons | 124157WI | WM Valley Trail Landfill Berlin, WI |
| | | | |

2.2 Planning Section

2.2.1 Planned Response Activities & Next Steps

No additional actions are planned. This response is complete.

2.2.2 Issues

No issues to report.

2.3 Logistics Section

The Spencer Fire Department provided logistical support for the removal action.

2.4 Finance Section

ERRS: Environmental Quality Management (and Veolia)

START: Tetra Tech

2.5 Other Command Staff

2.5.1 Safety Officer

No safety incidents during this reporting period.

2.5.2 Liaison Officer

EPA OSC Halbur was the Liaison Officer for this removal action. The Spencer Fire Chief, representatives from the Wausau HazMat Team and WDNR, and the property owner visited the Site during this reporting period.

2.5.3 Information Officer

EPA OSC Halbur is the Information Officer for this removal action.

3. Participating Entities

3.1 Cooperating Agencies

Marathon County Emergency Management
 Spencer Fire Department
 Wausau Fire Department
 Wisconsin Department of Natural Resources
 Wisconsin Emergency Management

4. Personnel On Site

EPA: 1

ERRS: 4

START: 1

5. Definition of Terms

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
EPA: Environmental Protection Agency
ERRS: Emergency and Rapid Response Services
OSC: On-Scene Coordinator
PRP: Potentially Responsible Party
START: Superfund Technical Assessment and Response Team
VOC: Volatile Organic Compound
WDNR: Wisconsin Department of Natural Resources
WEM: Wisconsin Emergency Management

6. Additional sources of information

6.1 Internet location of additional information/report

The Administrative Record is available at the Spencer Village Hall, 105 Park St., Spencer, WI 54479.
Additional information about the removal is available at www.epaosc.org/spencerdrum.

6.2 Reporting Schedule

This is the Final POLREP.

7. Situational Reference Materials

Regional Metrics

| | | |
|---|---|----|
| This is an Integrated River Assessment. The numbers should overlap. | Miles of river systems cleaned and/or restored | NA |
| | Cubic yards of contaminated sediments removed and/or capped | NA |
| | Gallons of oil/water recovered | NA |
| | Acres of soil/sediment cleaned up in floodplains and riverbanks | NA |
| | Number of contaminated residential yards cleaned up | 0 |
| Stand Alone Assessment | Number of workers on site | 8 |
| Contaminant(s) of Concern | Flammable and corrosive materials; abandoned drums | |

Oil Response Tracking

| | | |
|------------------|-------------------------|----|
| Estimated volume | Initial amount released | NA |
| | Final amount collected | NA |
| | FPN Ceiling Amount | NA |
| CANAPS Info | FPN Number | NA |
| | Body of Water affected | NA |

Administrative and Logistical Factors (Place X where applicable)

| | | |
|---|--|-------------------------|
| Precedent-Setting HQ Consultations (e.g., fracking, asbestos) | Community challenges or high involvement | Radiological |
| X More than one PRP | Endangered Species Act / Essential Fish Habitat issues | Explosives |
| AOC | Historic preservation issues | Residential impacts |
| UAO | NPL site | Relocation |
| DOJ involved | Remote location | Drinking water impacted |
| Criminal Investigation Division involved | X Extreme weather or abnormal field season | Environmental justice |

| | | |
|---|---|-------------------------------------|
| Tribal consultation or coordination or other issues | Congressional involvement | High media interest |
| Statutory Exemption for \$2 Million | Statutory Exemption for 1 Year | Active fire present |
| X Hazmat Entry Conducted – Level A, B or C | Incident or Unified Command established | Actual air release (not threatened) |
| CID confirms Criminal Charges Have Been Filed | | |

Green Metrics

| Metric | Amount | Units |
|--|--------------------|--------------|
| Diesel Fuel Used | 80 | gallons |
| Unleaded Fuel Used | 343 | gallons |
| Alternative/E-85 Fuel Used | 0 | gallons |
| Electricity from electric company | PRP provided power | kWh |
| Electric Company Name and Account # | PRP provided power | |
| Electricity from sources other than the electric company | 0 | kWh |
| Solid waste reused (corn cob) | 1,700 | pounds |
| Solid waste recycled | 0 | pounds |
| Water Used | 60 | gallons |

Version 151117

APPENDIX H
ACCESS AGREEMENT



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CONSENT FOR ACCESS TO PROPERTY**

I consent to officers, employees, contractors, and authorized representatives of the United States Environmental Protection Agency (U.S. EPA) entering and having continued access to 408 E. Willow Drive, Spencer, WI, for the following purposes:

Containing hazardous materials present on the property;

Conducting monitoring and sampling activities;

Disposing of hazardous materials;

Performing other actions to investigate contamination on the property that U.S. EPA may determine to be necessary; and

Taking any response action to address any release or threatened release of a hazardous substance, pollutant or contaminant which US EPA determines may pose an imminent and substantial endangerment to public health or the environment.

I realize that these actions taken by U.S. EPA are undertaken pursuant to its response and enforcement responsibilities under the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended.

This written permission is given by me voluntarily, on behalf of myself and all other co-owners of this property, with knowledge of my right to refuse and without threats or promises of any kind.

Susan Shuker
Owner Signature

9-8-15
Date

[REDACTED]
Phone Number

[REDACTED]
Email address