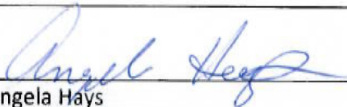


Region 6 Compliance Assurance and Enforcement Division

INSPECTION REPORT

Inspection Date(s):	07/25-27/2017		
Media:	RCRA		
Regulatory Program(s)	Hazardous Waste		
Company Name:	Little Rock Air Force		
Facility Name:	Little Rock Air Force Base		
Facility Physical Location:	1255 Vandenberg		
(city, state, zip code)	Jacksonville, AR 72076		
Mailing address:	1255 Vandenberg		
(city, state, zip code)	Jacksonville, AR 72076		
County/Parish:	Pulaski		
Facility Contact:	Elizabeth K. Gamber	19 CES / CEIEC	
	Elizabeth.gamber@us.af.mil		
FRS Number:			
Identification/Permit Number:	AR6571824808		
Media Number:			
NAICS:			
SIC:			
Personnel participating in inspection:			
Angela Hays	USEPA	Enforcement Officer	214-665-2285
Joyce Johnson	USEPA	Enforcement Officer	214-665-8548
John Sykes	ADEQ	Enforcement Officer	501-682-0834
Chris Schmidt	LRAFB	19 CES / Chief Environmental Compliance	501-987-7700
Ronnie Lynn Shaw	LRAFB	19 CES/ CEIEC	501-987-8135
Mike Ramsey	LRAFB	19 CES/CEI	501-987-7698
John Gahr	LRAFB	19 CES	501-987-5277
Betty Gamber	LRAFB	19 CES/ CEIEC	501-987-6800
Robby Weng	LRAFB	189 MXS	501-987-7484
Alfred Cotter	LRAFB	19 MXS	501-987-8586
Daniel Gorman	LRAFB	AFRC/MXMX	501-987-4646
Charels Fletcher	LRAFB	ARC CRF/MXMX	501-987-2980

Air Force / Little Rock AFB
Inspection Date 07/25-27/2017

Adrian Saucedo	LRAFB	19MXS/MXMFS	501-987-6518
Daniel Werner	LRAFB	19 CES / CC	501-987-3322
Jennifer Harris	LRAFB	19 CES / CD	501-987-3322
Andrew Stevens	LRAFB	19 MXS/MXMCF	501-987-2290
Vickie Bednar	LRAFB	19 MDG	501-987-7570
Frederick Aban	LRAFB	19 MDG	501-987-8812
Aaron Weaver	LRAFB	19 AMDS / SGPB	501-987-7344
Chris Arzola	LRAFB	19 MDSS / SGSAL	501-987-5568
Rachel Copeland	LRAFB	19 MDSS / SGSD	501-987-7446
EPA Lead Inspector Signature/Date			11-9-17
	Angela Hays		Date
Supervisor Signature/Date			11/9/2017
	Guy Tidmore		Date

Section I – INTRODUCTION

PURPOSE OF THE INSPECTION

On July 25, 2017, EPA Region 6 inspectors Angela Hays and Joyce Johnson, along with ADEQ inspector; John Sykes, arrived at Little Rock Air Force Base at 10:00 a.m. for an unannounced Compliance Evaluation Inspection (CEI). We met with Chris Schmidt, 19 CES / Chief Environmental Compliance; Ronnie Lynn Shaw, 19 CES / CEIEC; Mike Ramsey, 19 CES/ CE;, John Gahr, 19 CES; and Betty Gamber, 19 CES / CEIEC of Little Rock Air Force Base (LRAFB) to conduct the Opening Conference (Appendix 2). Joyce Johnson presented her credentials to Schmidt, Shaw, Ramsey, Gahr, and Gamber; and we informed them that we were there to conduct an EPA inspection to determine the facility's compliance with the Resource Conservation and Recovery Act (RCRA). Ms. Johnson also explained EPA's federal facilities program where 10 federal facilities are inspected each year and that LRAFB is one of the facilities selected for inspection as part of the program. The scope of the inspection is to evaluate compliance with the RCRA regulations for generators of hazardous waste.

Each day of the inspection was attended by the representatives in attendance at the opening meeting. We were also joined at different times by specific leads for the particular production areas in the facility. This inspection included: walkthroughs of the facility's operations and waste management areas; interviews with facility personnel; and collection and review of facility records. We concluded the inspection on July 27, 2017, with a closeout meeting that included a discussion of the preliminary areas of concern.

This report serves as documentation of the onsite activities and observations as they pertain to the RCRA CEI. Photographs taken during the inspection to document onsite observations are included as Appendix 1.

FACILITY DESCRIPTION

Little Rock Air Force Base (LRAFB) is, located at 1255 Vandenburg in Jacksonville, Arkansas, Pulaski County. LRAFB covers 6,412 acres including one runway and one assault landing strip. The base population accounts for more than 8,000 active-duty military, civilian and 5,300 family members. As well as service approximately 53,000 retirees who reside in the local area. The LRAFB offers a variety of amenities, such as shops, recreation areas, schools, and emergency facilities (Appendix 3). Little Rock Air Force Base's total impact on the local economy in fiscal year 2015 totaled \$511 million. It is the fourth-largest employer in Arkansas and created 2,835 indirect jobs in fiscal year 2015.

LRAFB opened in October 1955 and is now home base to more than 70 C-130 H and J models. The base's host unit is the 19th Airlift Wing, in combination with the 314th Airlift Wing, 189th Airlift Wing, 913th Airlift Group and U.S. Air Force Mobility Weapons School.

The 19th Airlift Wing flies the world's largest fleet of C-130 aircraft and is responsible for providing worldwide deployable C-130 aircraft, aircrews, support personnel and equipment for Air Mobility Command and Air Expeditionary Force tasking including supplying humanitarian airlift relief to victims of disasters to airdropping supplies and troops into operation areas.

LRAFB registered as a Large Quantity Generator (LQG) of hazardous waste in 1992. The most recent notification listed hazardous waste codes D001, D002, D003, D005, D006, D007, D008, D009, D010, D011, D018, D035, D039, D040, F003, F035, P001, P075, and P081. The facility is also a Large Quantity Handler of Universal Waste accumulating - managing batteries and lamps.

Section II – OBSERVATIONS

This section documents the factual observations we made during this inspection and includes reference to photographs taken during the inspection (Appendix 1); descriptions of the satellite accumulation areas and waste storage areas; as well as the documents we reviewed and collected during the inspection.

During the inspection Ms. Johnson, Mr. Sykes, and Angela Hays, were escorted by Mr. Shaw and provided with a document titled "Satellite Accumulation Point (SAP's) by Shop Report" (Appendix 4). The report is a list of the facilities Satellite Accumulations Areas (SAA) and 90-day storage areas. The facility refers to SAA's as SAP's. The following write-ups use the waste stream and building numbers listed on the SAP's by shop report, to describe our observations during the inspection.

Building Number 1582 – 90 Day Storage

Building number 1582 is one of the 90-day storage areas (photo # 399). The building has a concrete floor with a shelving lining the walls. According to Mr. Shaw, the facility had recently shipped out all wastes (photo 403). The wastes stored in the unit at the time of inspection consisted of two cardboard boxes (photos 400 and 402) and two 55-gallon drums (photos 401, and 406). During the inspection Ms. Johnson, Ms. Hays, and Mr. Sykes, noticed liquid on the ground and inquired about what it consisted of and where it had originated. Mr. Shaw explained that it was run on from rain water (photos 404 and 405).

Building Number 1570 – Satellite Accumulation Area

Building number 1570 is utilized for universal waste and "free issue" accumulation. The building was split into three rooms. The first room contained a "Free-Issue" area. This consisted of open products available for the base residents to use as needed. This area consists of items such as paint, paint thinner, pesticide, and adhesives (photos 417 and 418). The room also contained a 55-gallon drum for broken

mercury lamps (photo 408 and 409), a covered 5-gallon bucket for NI-CAD batteries (photo 410, 411), a collection container for lithium batteries (photo 412 and 413), and a collection area for mercury thermostats (photos 414 and 415).

Ms. Johnson stepped into the second room where she observed several open boxes of lamps without operator present. Ms. Johnson retrieved Ms. Hays from room 1, and upon re-entry to the second room together an operator was present. The operator stated that he was consolidating the boxes of mercury lamps and that the boxes are not typically open (photo 407).

Building Number 213 - Satellite Accumulation Area

Building number 213 is the sheet metal shop. This building generates waste stream LRK-SAP-043 (D006, D007) (Appendix 4) (Appendix 9, spent bead blast media (photo 422). The building contained a satellite accumulation area with 55-gallon drum containing spent blast media, labeled and marked with the hazardous waste codes D006 and D007 (photo 423). There were no other wastes present at the time of inspection in building 213. According to the SAP's by Shop Report, this building also generates waste streams LRK-WSN-40 (D001, D007, D035), LRK-WSN-41 (D007), LRK-WSN-42 (D006, D007, F005), LRK-WSN-52 (D007, F005), LRK-WSN-69 (D001, D007, D035), and LRK-WSN-70 (D007) (Appendix 4).

Mr. Schmitt and Mr. Shaw explained that the bead blast is considered spent when it is too small for use as blasting material. The spent material is characterized as hazardous; exhibiting the characteristics of toxicity for cadmium and chromium (D006 and D007). After the spent material is collected it is shipped to US Technology Media Inc. for reuse / recycling. Ms. Hays requested further documentation of how the material is recycled and how the recycled material is utilized. The facility was able to produce the Lease and Recycle Program Overview of US Technology Media Inc.'s recycling process (Appendix 7). US Technology Media Inc. states that the recycle program utilizes the spent blast media in concrete block production. The facility was unable to provide documentation of how the blocks are used once produced.

Mr. Sykes produced a letter dated August 04, 2006. from Arkansas Department of Environmental Quality (ADEQ) to US Technology Corporation for the approval of Confirmation of Environmental Exemption Status for Spent Blast Media.

Building Number 207 - Satellite Accumulation Area

Building number 207 is the Survival Equipment and Sortie Support building. The posted waste streams on the wall, are for LRK-SAP-042 (D006), LRK-SAP-069 (D001, D007, D035), and LRK-SAP-070 (D006, D007) (photo 424). An area within the building has a pallet with three 55-gallon drums, one for each of these waste streams collected (photo 425, 426, 427). One of the 55-gallon drums for collection was labeled with the waste profile number LRK-PRF-040 but this was crossed out and waste profile number LRK-PRF-069 (D001, D007, D035) was written (photo 425). Another 55-gallon drums labeled with the

waste profile LRK-PRF-070 (D007) has a written note for building 207 (photo 427). The building wall does reflect that these waste streams are being generated in building 207 but according to the SAP's by shop report, LRK-PRF-070 is a waste that is generated in building 213 (Appendix 4).

The building also had a metal trash can with lid for empty aerosol can collection. The lid on the container has a 2-inch hole cut into the top (photo 428). It was not observed if the aerosol cans were punctured or not during the inspection. Non-punctured aerosol cans are generally considered D001 or D003 or both and collected in a labeled container with a lid.

Building Number 205 - Satellite Accumulation Area

Building number 205 house, the paint booth. The building is not documented on the SAP's by Shop Report. The building has SAP# 040 (D001, D007, D035), SAP# 041 (D006, D007) and SAP# 052 (D006, F005) posted on the wall (photos 429, 430).

Building Number 356- Satellite Accumulation Area

Building number 356 is the Contract Engine Shop / CRF. This building contained one large and two small parts washers as well as a "burrito machine" for wrapping waste. The large parts washer is closed loop (photo 435, 440) with sludge drainage into an open side bin (photo 432, 433, 434). Fluid from the small parts washers is accumulated in a 55-gallon drum (photo 441, 447). The sludge is collected in a 55-gallon drum and labeled as hazardous waste (photo 434, 440, 442, 444, 445, 446). The filters from the parts washers are wrapped in the "burrito machine" (photo 436) and collected in a 55-gallon drum, with waste profile number LRK-PRF-008 (D006) (Appendix 10) (photo 443, 444). Building 356 also has a fiber container with lid for adhesive / sealant (photo 437, 438).

Building Number 282 - Satellite Accumulation Area

Building 282 is for Corrosion Control. The building houses blasting units used in order to strip paint from surfaces (photos 463 – 476). The waste streams in the drums are LRK-PRF-020 (D001, D07, D035), LRK-PRF-062 (D007, D035), and LRK-PRF-030 (D007) (photo 453, 454, 455, 456). There is no documentation of blast media waste from this building. The bead blast machine is housed in the building (photo 465, 466, 467) and the excess is collected under the bag house in a fenced area (photo 461, 462). Collection of the spent bead blast does not meet the requirements for SAA, due to the collection being out of control of the operator nor the requirements of a 90-day storage area due to not being dated or labeled. The wall posts purging procedures for the steel cabinet blaster (photo 468). Mr. Shaw was unable to answer how the filters for the bead blast unit are maintained (photo 477). Ms. Hays requested documentation of filter waste management. A small step can was observed at the entrance between the offices and shop of the bead blast area (photos 479 and 478). The can is for bootie collection as personnel exit the bead blast area. The can has a danger notice on the lid stating danger, contains cadmium, may cause cancer, cause damage to lungs and kidneys, avoid creating dust.

Building Number 282 – 90 Day Storage Area

Building 282 has an outdoor 90-day storage area for the Corrosion Control Accumulation Site. This the facility's second 90-day storage area. As stated before by Mr. Shaw, the facility had recently shipped all hazardous waste. During the inspection the facility had one 55-gallon drum labeled and one plastic bag (photo 448, 449, 450). This storage area is fenced in and on a concrete flooring (photo 451 and 452).

Building Number 1090- Satellite Accumulation Area

Building 1090 is the Medical Clinic Pharmacy. This building consists of a main pharmacy and two laboratories. The facility had three closed lid containers for hazardous wastes D001, D002, P075, P081, P001, P042 (photos 479, 480, 481, 482). Only used medications are disposed of, unused medications are returned to Pharmalogistics. There was no waste in the containers during inspection. The facility does not do liquid chemotherapy treatment. A type of chemotherapy medication is given in tablet form only.

Building Number 232- Satellite Accumulation Area

Building 232 is the Fuel Systems Repair. This building has an underground tank. The facility said the underground tank is empty and that it last held fire foam water. EPA requested documentation of waste determination and shipment of last clean out from Mr. Shaw. The building has three waste streams LRK-PRF-18 (D001, D010, D035) (photo 459), LRK-PRF-38 (D006) (photo 458), and LRK-PRF-59 (D006, D003) (photo, 457, 460).

Document Review

The document review began on July 25, 2017. We reviewed a variety of documents to assess LRAFB compliance with RCRA LQG regulations. The documents reviewed were related to compliance with the RCRA regulations pertaining to Contingency Plans, emergency response procedures, training, record keeping requirements, waste determination and hazardous waste manifesting. The documents copied and received for review from LRAFB are listed below.

- Waste manifests years 2014, 2015, 2016 and partial for 2017.
- Hazardous waste training certificates for Gamber, Shaw, Piacentini, Ghar, Henson, Graves, Weng, Daniel. Johnson, Maguire, Barskile, Farppgi, Quade, Miller, Jones, Tingle, Hatton, Swister, Bickers, Stevens, Chisler, Hunter, Mattison, Mannion, Saucedo, Larocque, Kunckel, Chellberg,

Reynolds, Digiovanni, Winston, Herrick, Matyiko, Wagers, Gorney, Gallardo, Babczak, Gross, Benton, Jordan, Dover, Price, McIntyre, Caravello, Pfleger, Jacob, Huggins, Jones, Miller, Harbor, Wilks, Styza, Bible, Martin, Daus, Casey and Bredwell

- List of SAP POC's and HAZMO inspection dates.
- Hazardous waste profiles – paper copies for buildings 205, 207, 213, 246, 250, 356 and complete list on two CD's
- HAZMO checklist from 5-12-2017
- List of LRAFB hazardous waste medications and shipping labels
- Red Plan
- US Technology Media Inc. Lease & Recycle program Overview
- Map of Base
- SAP's by Shop Report
- LRAFB Introduction to RCRA hazardous waste training overview
- ADEQ letter of Recycling Exempt Status Confirmation Request
- ADEQ letter of Recycling Exempt Status Confirmation Approval
- Bill of Lading for Bead blast media from 11-12-15 to 5-10-2017
- Analytical results on building 282
- Bead blast purchase order
- LRAFB Bead blasting media & recycling services performance work statement
- Chain of command graph
- MART EQ Wastewater Processing System Operating Manual

Section III – AREAS OF CONCERN

- Possible open and unlabeled container of non - punctured aerosol cans (photo 428).
- Updated contingency plan for Large Quantity Generator Requirements (Appendix 5).
 - No documentation of emergency plan with local police and fire first responders or hospitals.
 - Outdated list of personnel
 - Does not include information of hazardous waste in 90-day storage area
- Shipping hazardous waste to unauthorized facility (Appendix 6).
- Not shipping hazardous waste on manifests.
- Spent bead blast not contained in SAA or 90-day storage (photos 461 and 462).
- No documentation of weekly inspections or details of inspections, for 90-day storage areas.

Section IV – FOLLOW UP

Documents received by EPA from Mr. Schmidt after exiting the Facility on 7/27/2017,

- E-mailed - request for 14-day extension for submitting documentation; received August 11, 2017 at 2:40 p.m.

- Mailed - Underground storage tank wash out / pump/ disposal documents; received August 21, 2017 at 2:25 p.m.
- Mailed - parts washer manuals
- Mailed - Bead blast filter replacement and disposal handling; received August 21, 2017 at 2:25 p.m.
- Mailed - record of movement and certificate of recycling from US Technologies for Bead Blast; received August 21, 2017 at 2:25 p.m.

Section V – LIST OF APPENDICES

Appendix 1 – Photo Log – 82 photos, taken 7/25/2017 to 7/27/2017

Appendix 2 – Inspection Participants Sign in Sheet

Appendix 3 – Little Rock Visitors Map

Appendix 4 – SAP's by Shop Report

Appendix 5 – Red Plan / Contingency Plan

Appendix 6 – Bead Blasting Media & Recycling Services Performance Work Statement

Appendix 7 - US Technology Media Inc. Lease &Recycle program Overview (CBI)

Appendix 8 – Arkansas Department of Environmental Quality letter

Appendix 9 – Hazardous waste profile sheet for LRK-PRF-043 (19 pages provided by LRAFB)

Appendix 10 - Hazardous waste profile sheet for LRK-PRF-008 (15 pages provided by LRAFB)

Appendix 1

Photo Log – 82 photos



399 - HAZMO Building 90-day storage # 1582 – outside of building

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.
IF FOUND, CONTACT NEAREST POLICE, PUBLIC SAFETY AUTHORITY, OR
ENVIRONMENTAL PROTECTION AGENCY.

GENERATOR 19th CES/CEAN
ADDRESS 528 Thomas Ave.
24HR PHONE (501)987-3200 (LRAFB Command Post)
CITY Little Rock AFB **STATE** AR **ZIP** 72099
EPA ID NO. AR6571824808 **START DATE** 29 June 2017
EPA WASTE NO. D007

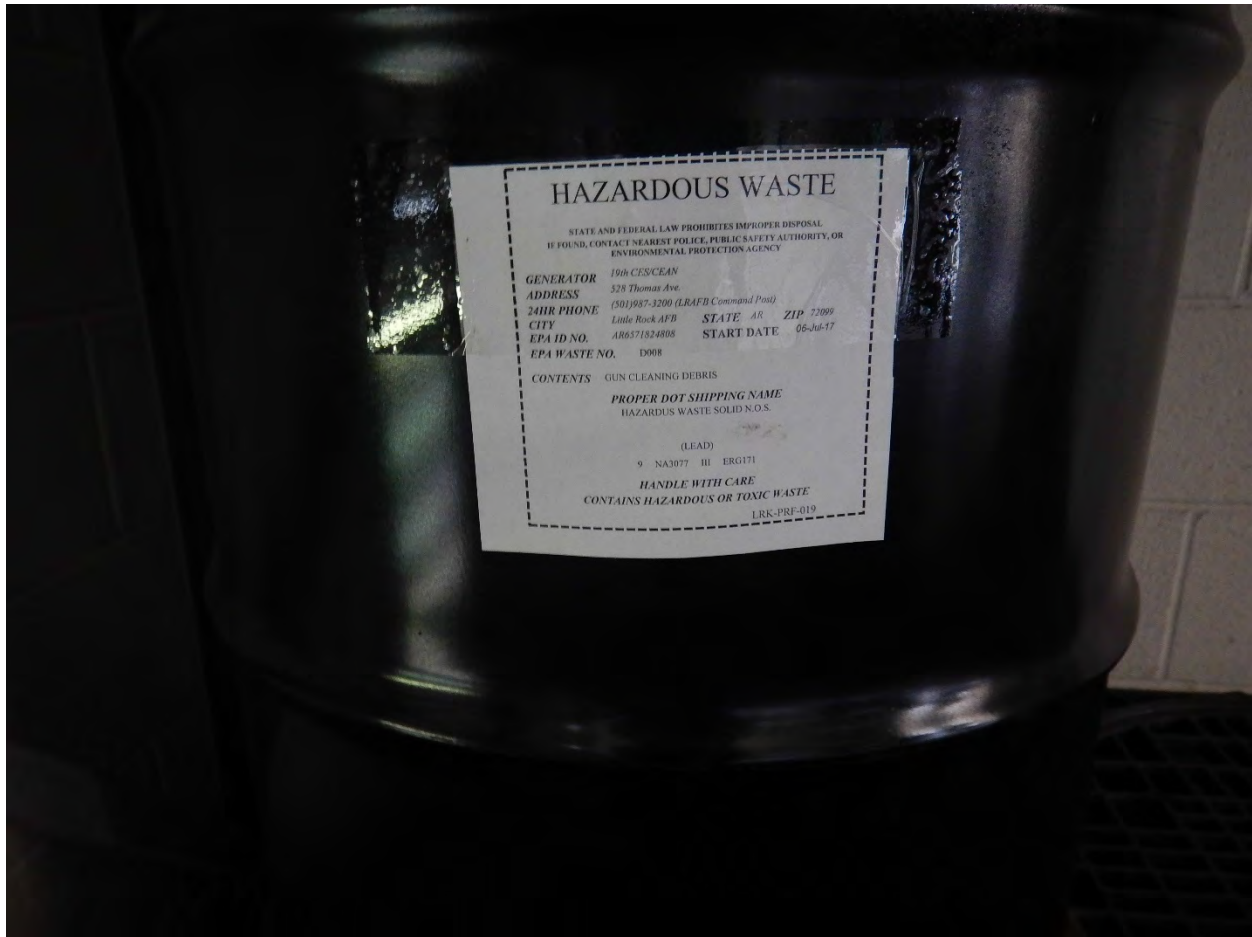
CONTENTS PAINT PAPER, FILTERS, PARACHUTES
PROPER DOT SHIPPING NAME
HAZARDOUS WASTE SOLID N.O.S.
(CHROMIUM)
9 NA3077 III ERG171
HANDLE WITH CARE
CONTAINS HAZARDOUS OR TOXIC WASTE
LRK-PRF-062

HAZARDOUS WASTE PACKAGING

11 **16**

+BR9849/2154

400 – Hazardous waste stored inside of building 1582



401 – Hazardous waste stored inside of building 1582



402 - Hazardous waste stored inside of building 1582



403 - Hazardous waste stored inside of building 1582 and shelving unit



404 – Liquid on the ground inside building 1582



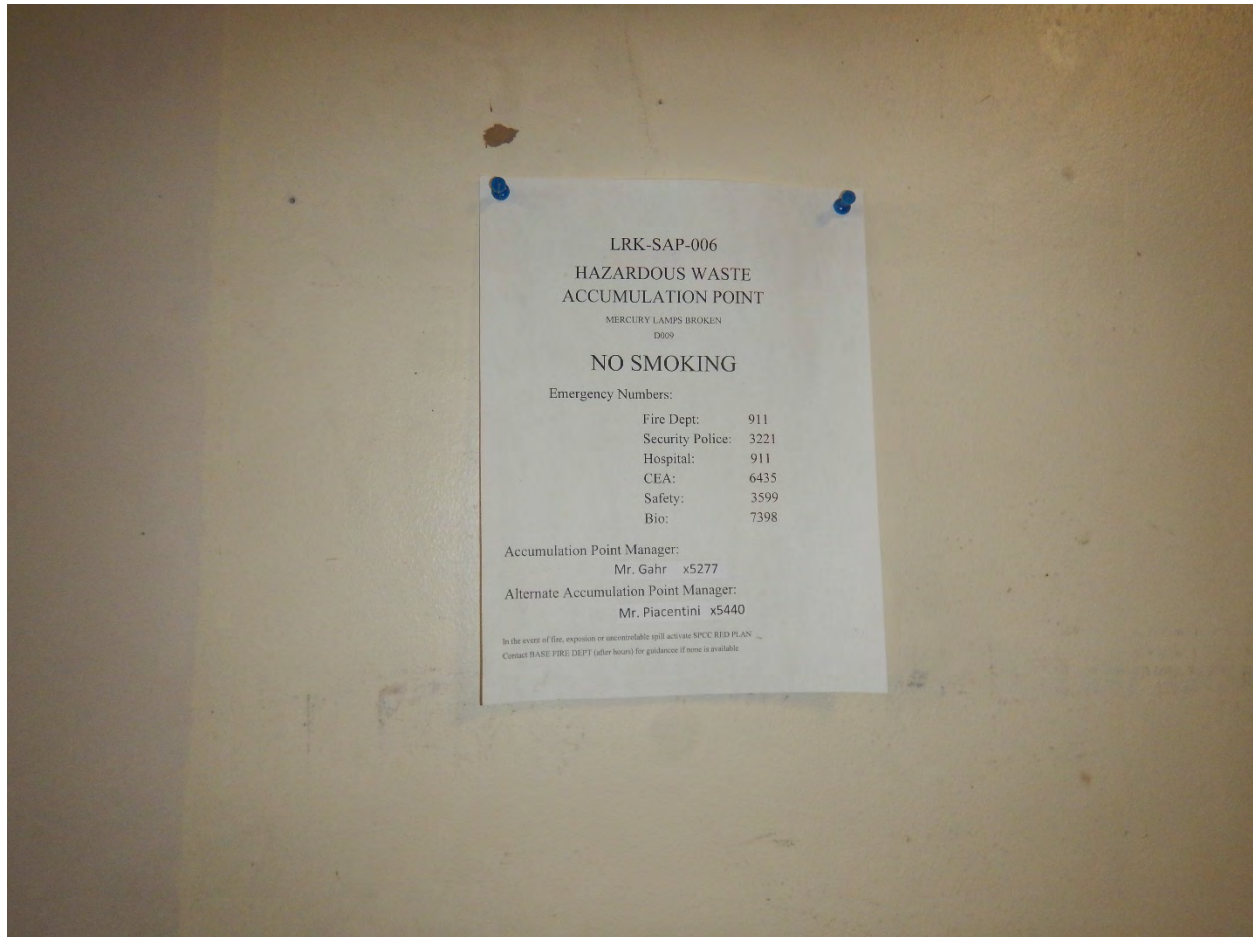
405 - Liquid on the ground inside building 1582



406 - Hazardous waste stored inside building 1582



407 - Building 1570 - open boxes of lamps



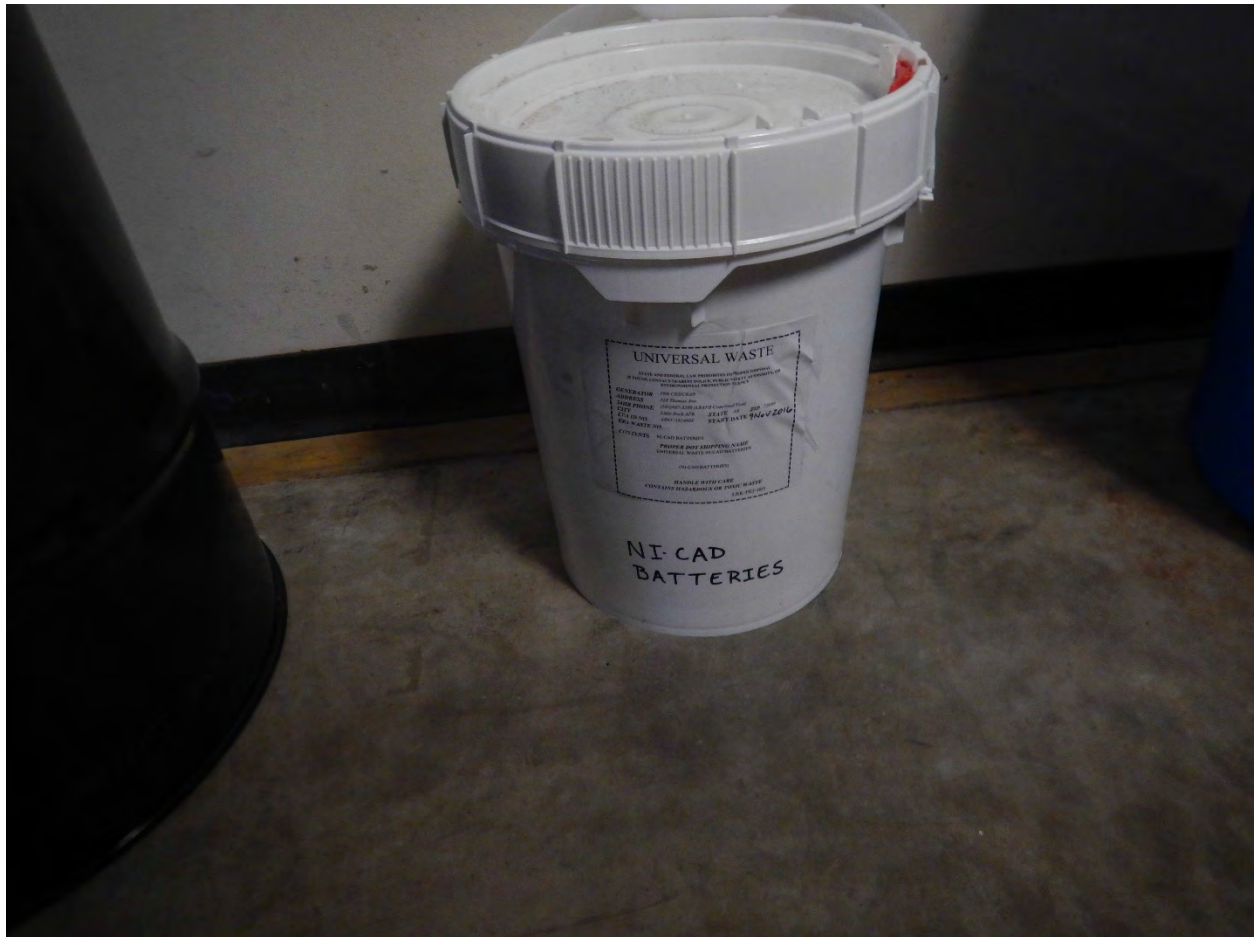
408 – Accumulation / Hazardous waste stream sign inside of building 1570



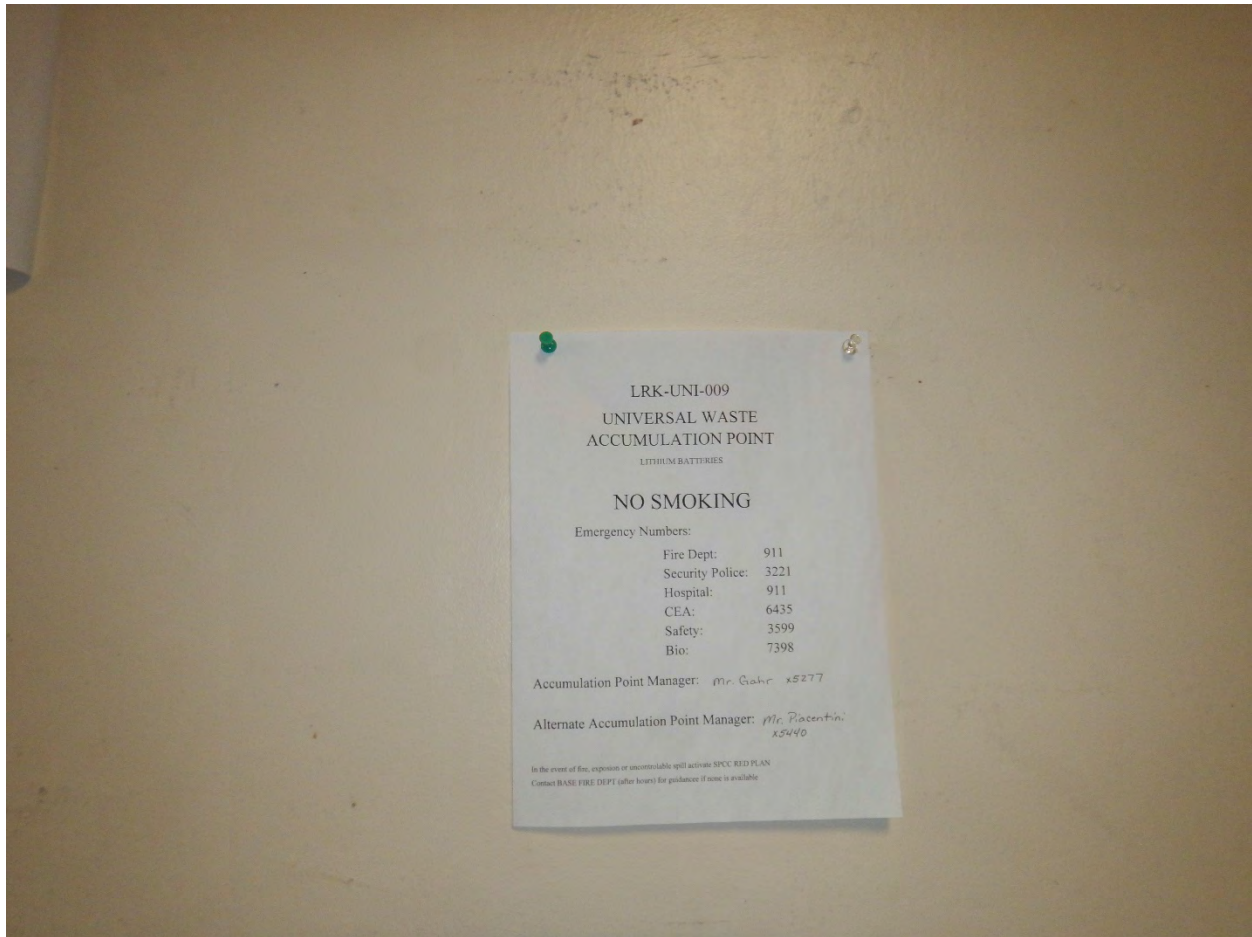
409 – Hazardous waste drum of broke lamps in building 1570



410 – Universal waste accumulation / waste stream sign for Ni- Cad batteries building 1570



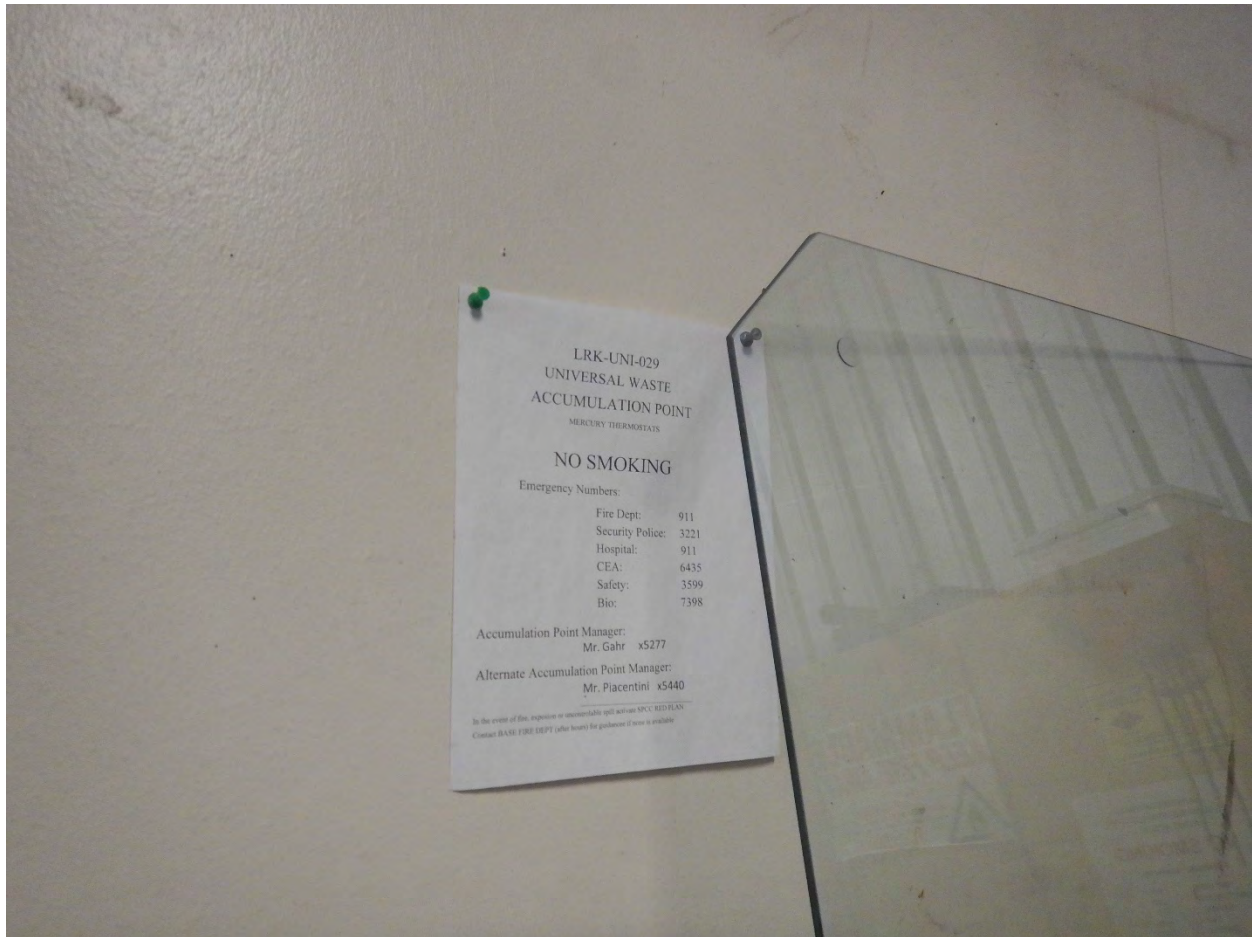
411 –Ni-Cad Battery container building 1570



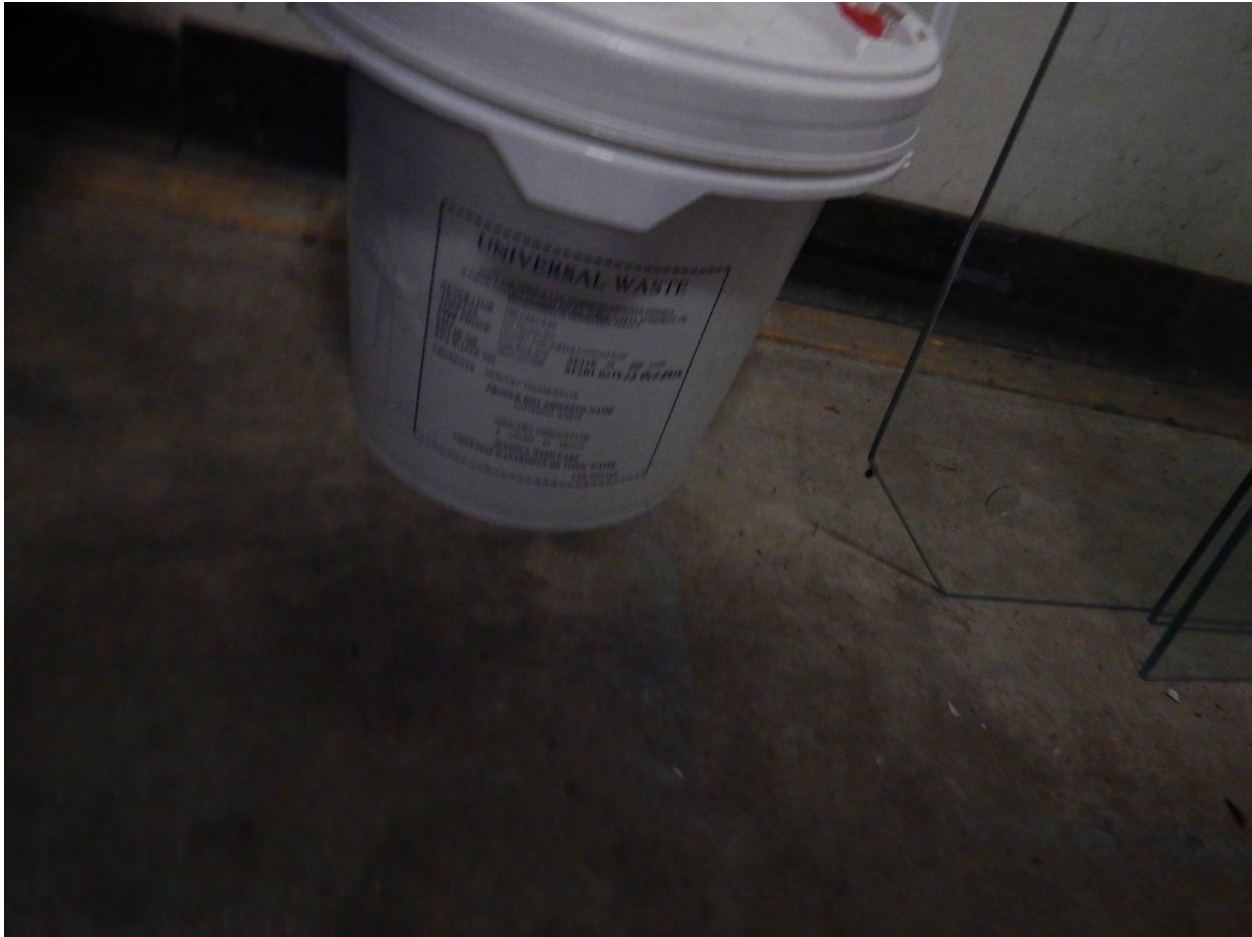
412- Universal waste accumulation sign for lithium batteries inside building 1570



413 – Universal waste lithium battery container inside building 1570



414 – Universal waste accumulation / waste stream for mercury thermostat sign inside building 1570



415 – Container for mercury thermostats inside building 1570



416 – Wide view of storage area for mercury thermostats, Ni- Cad batteries, and broken lamps inside building 1570



417- Free issue area inside building 1570



418 – Free issue area inside building 1570



419 – Dented antifreeze drum with corrosion on the top building 1570



420 – Dented antifreeze drum with corrosion on top building 1570



421 –No lid on the aerosol can collection container with no label building 1570



422 – Red plan and waste stream sign inside building inside building 213



423 – Accumulation drum media vacuum inside building 213



424 – Waste stream signs in building 207



425 – Hazardous waste drums inside of building 207 – waste stream changed



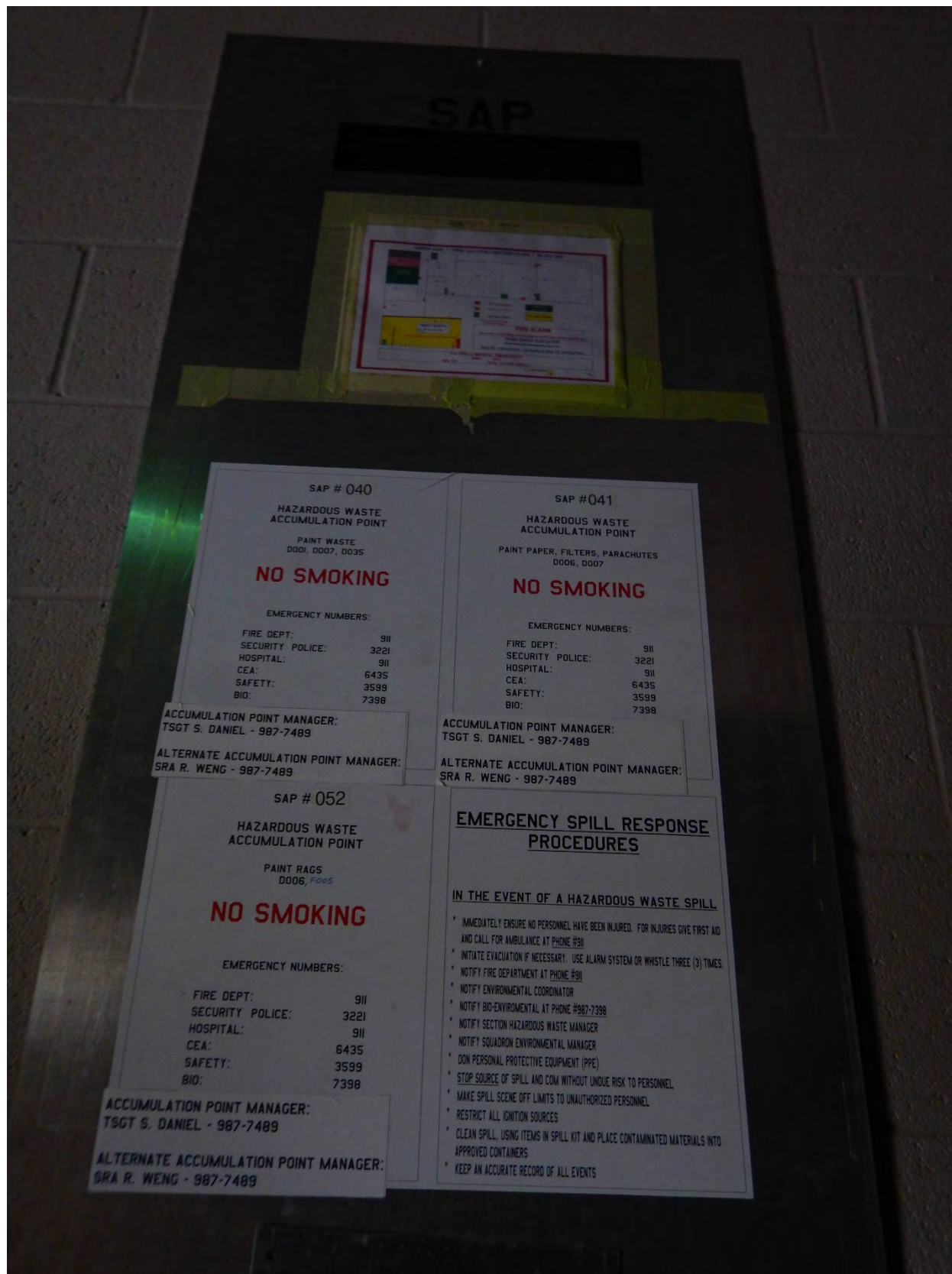
426 – Hazardous waste drum inside building 207



427 - Hazardous waste drum inside building 207



428 – Open aerosol Can collection inside building 207



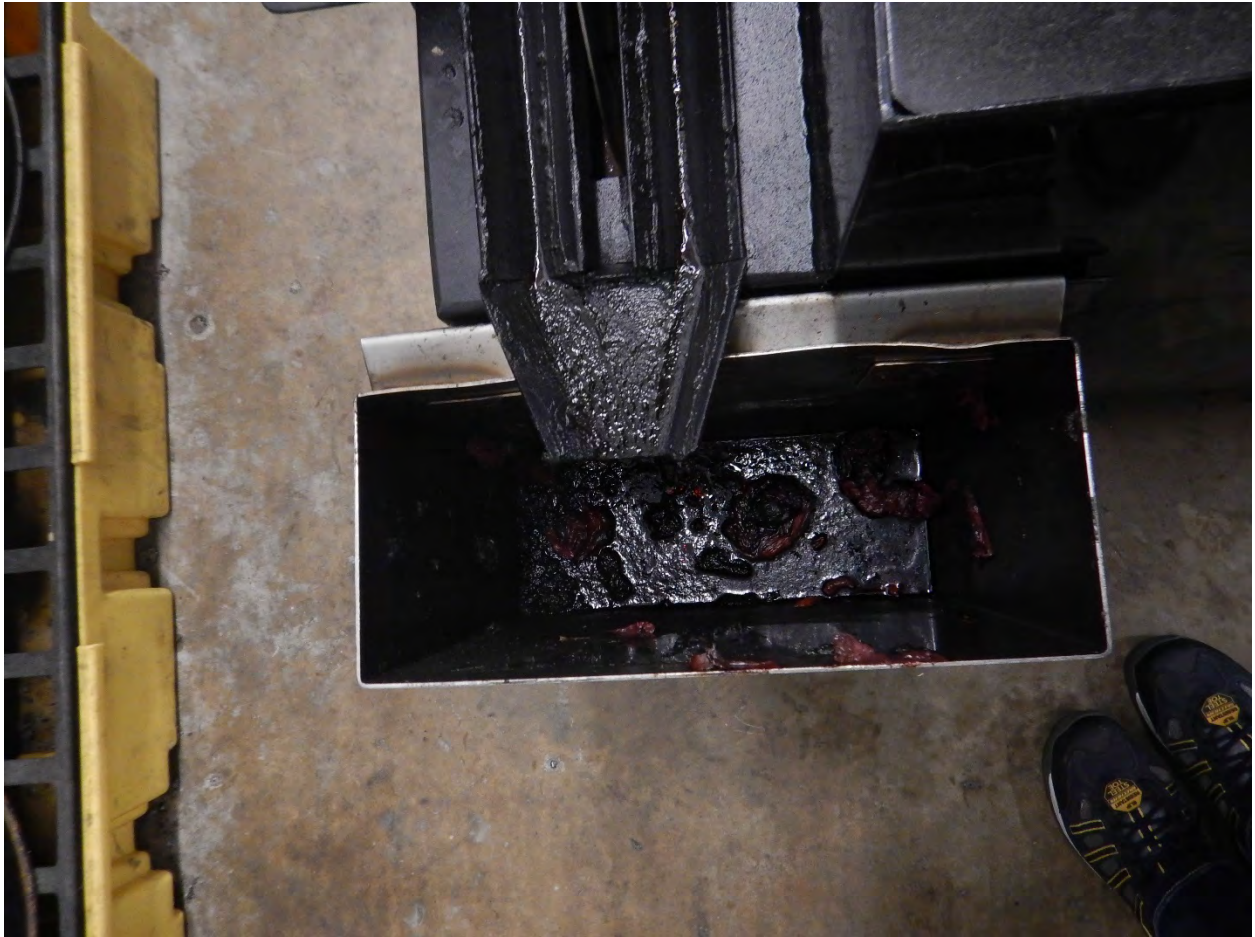
429 – Waste stream sign inside of building 205



430- Waste stream sign inside of building 205



431 – Drums inside of building 205



432 – Sludge accumulation from parts washer in building 356



433 – Sludge accumulation from parts washer in building 356



434 – Satellite accumulation area and parts washer in building 356



435- Parts washer in building 356



436 – Burrito machine inside building 356



437 – Paint waste in fiber container – building 356



438 – Building 356 - fiber canister of paint waste



439- Waste stream and accumulation area signs in building 356



440 - Waste steam signs in building 356



441- Hazardous waste accumulation drum in building 356



442 – Hazardous waste drum inside of building 356



443 – Hazardous waste drum inside of building 356



444 – Satellite accumulation area in building 356



445 – Sludge from small parts washer in building 356



446- Sludge from small parts washer in building 356



447 –small parts washer in building 356



448- Hazardous waste in 90-day accumulation area outside building 282



449 - Hazardous waste in 90 day accumulation area outside building 282



450 – Hazardous waste in 90-day accumulation area outside building 282



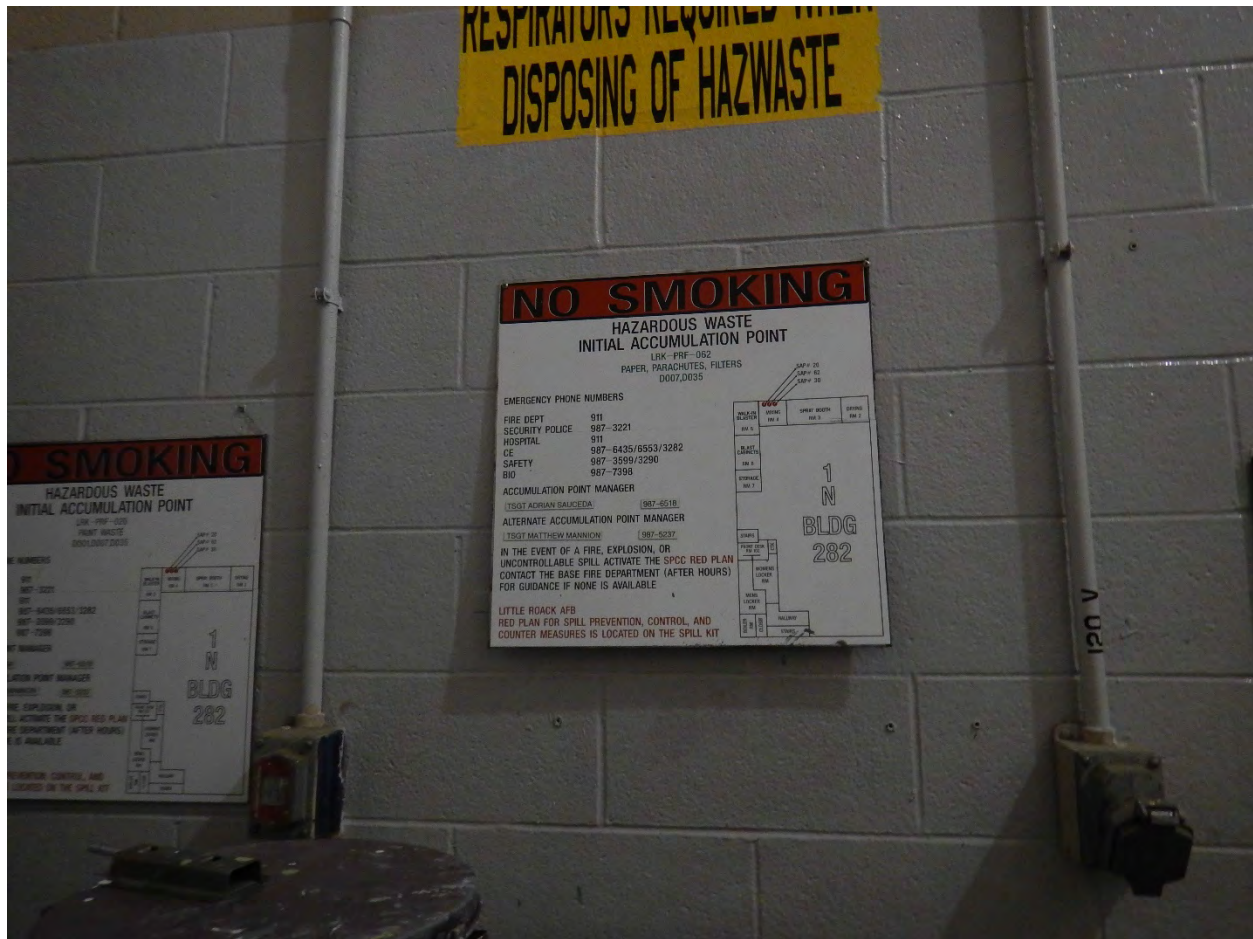
451 - Hazardous waste in 90-day accumulation area outside building 282



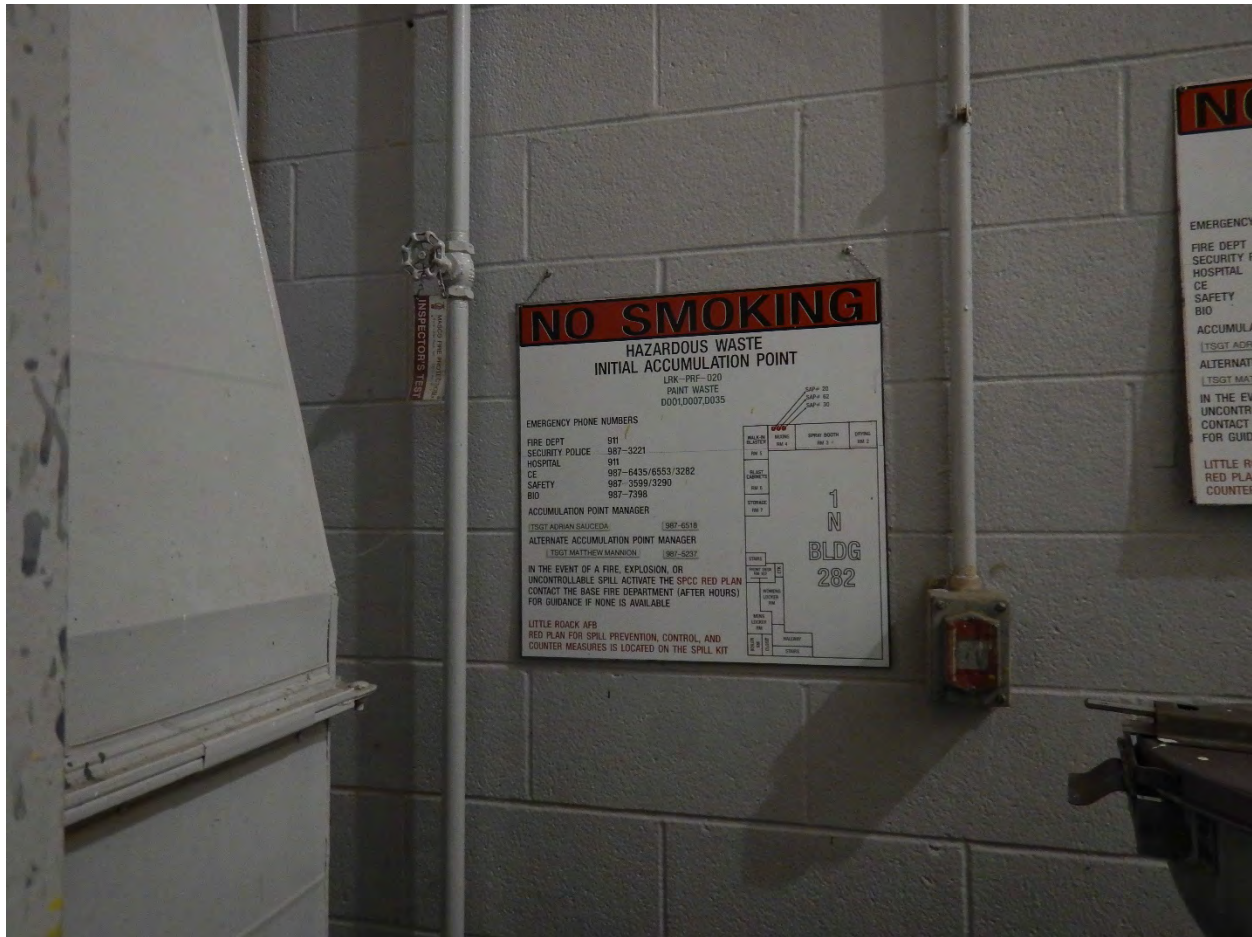
452 – Hazardous waste in 90-day accumulation area outside building 282



453 – Waste stream sign LRK-PRF-030 sign for SAA inside of building 282



454 – Waste stream sign LRFK-PRF-062 sign for SAA inside of building 282



455- Waste stream sign LRK-PRF-020 sign for SAA inside of building 282



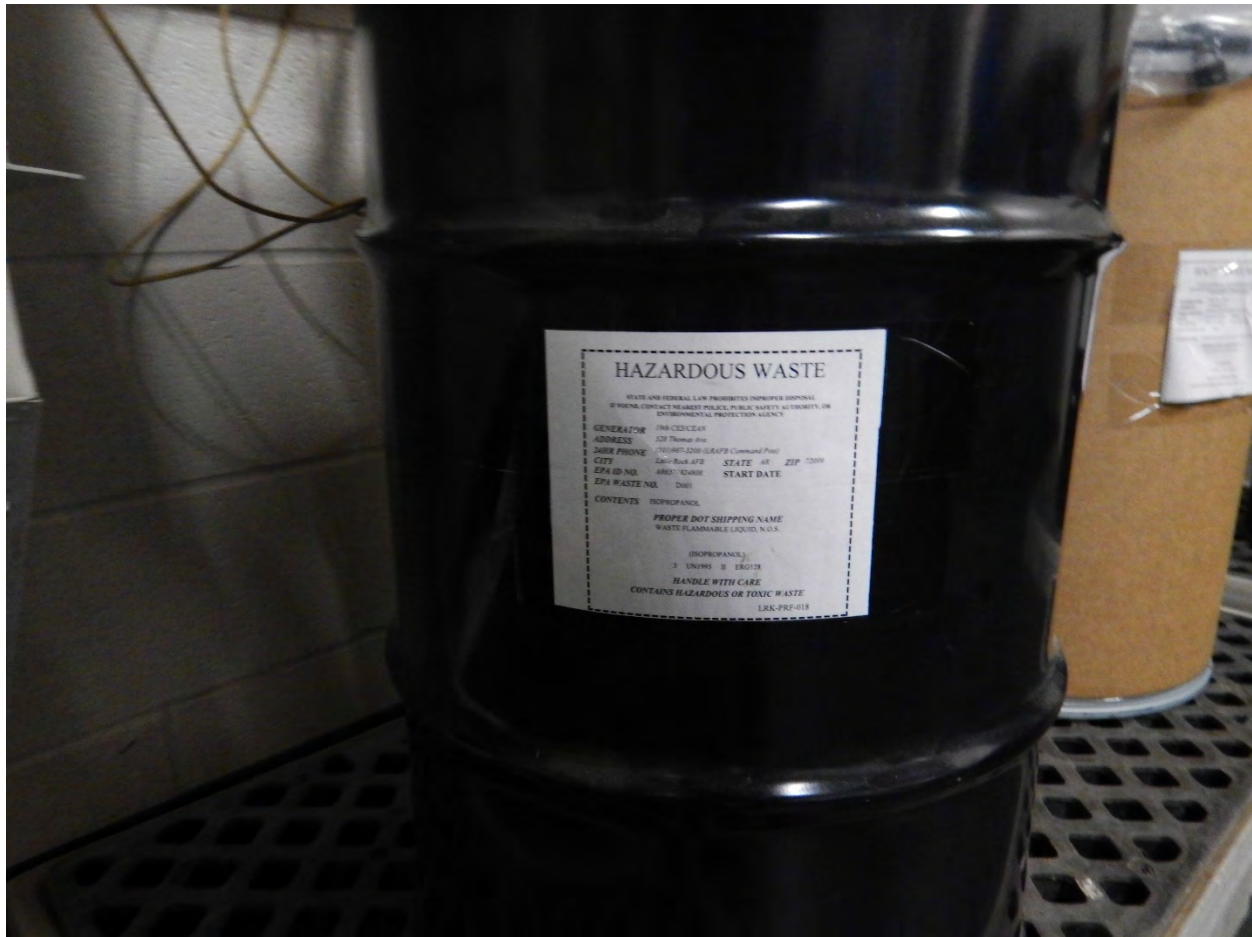
456- Filter room for bead blast and SAA for building 282



457 – SAA for waste stream LRK-PRF-059 in building 232



458- SAA for waste stream LRK-PRF-038 in building 232



459 - SAA for waste stream LRK-PRF-018 in building 232



460- SAA in building 232



461 – Outside collection of bead blast at building 282



462 - Outside collection of bead blast at building 282



463- Building 282 – Small blast units



464 – Building 282 abrasive blast units



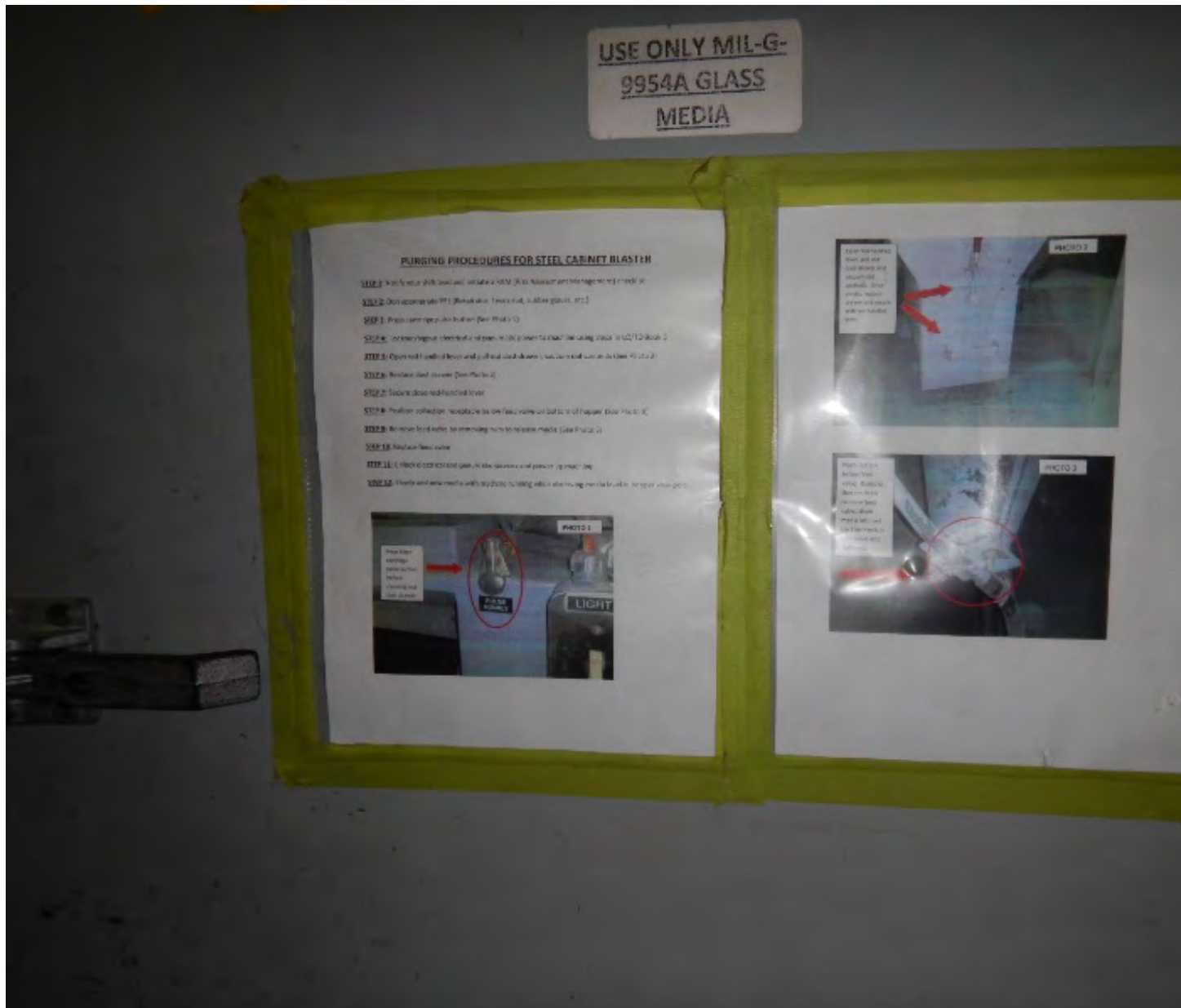
465 – Building 282 blast units



466 – Building 282 Sand blast unit



467 – Glass media blast unit building 282



468 – Purging procedures for steel cabinet blaster building 282



469 – Plastic media blast machine building 282



470 – Plastic media sign on blast unit building 282



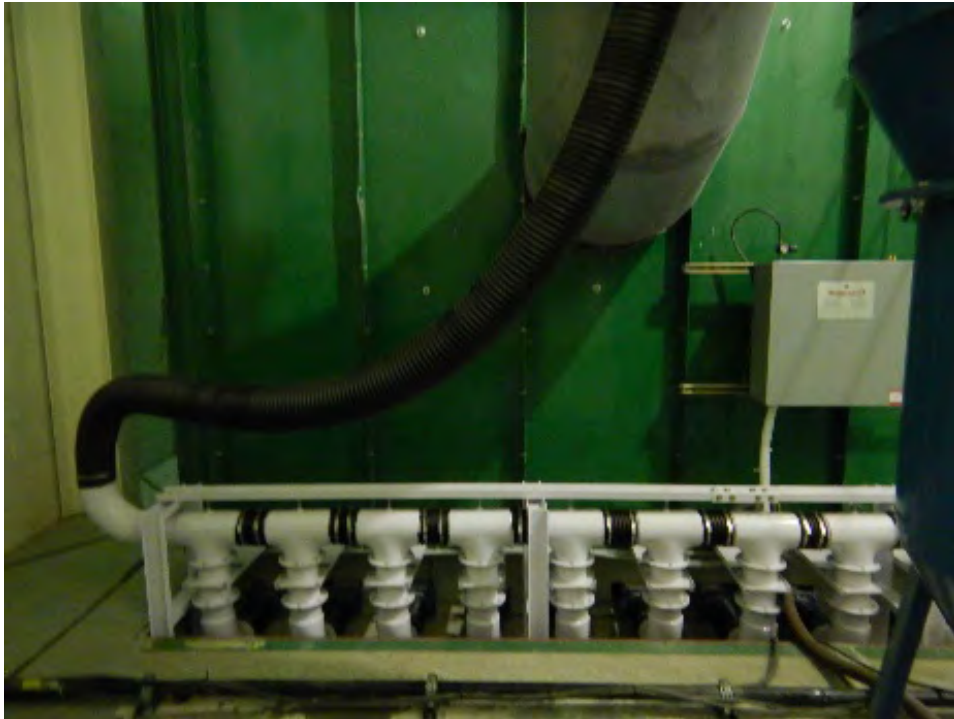
471 – Window on bead blast unit building 282



472 – Window on bead blast unit building 282



473 – Operation controls for walk in blaster building 282



474 – Walk in blaster lines in building 282



475 – Walk in blast unit building 282



476 – Walk in blast unit building 282



477 – Filters for walk in blast unit in building 282



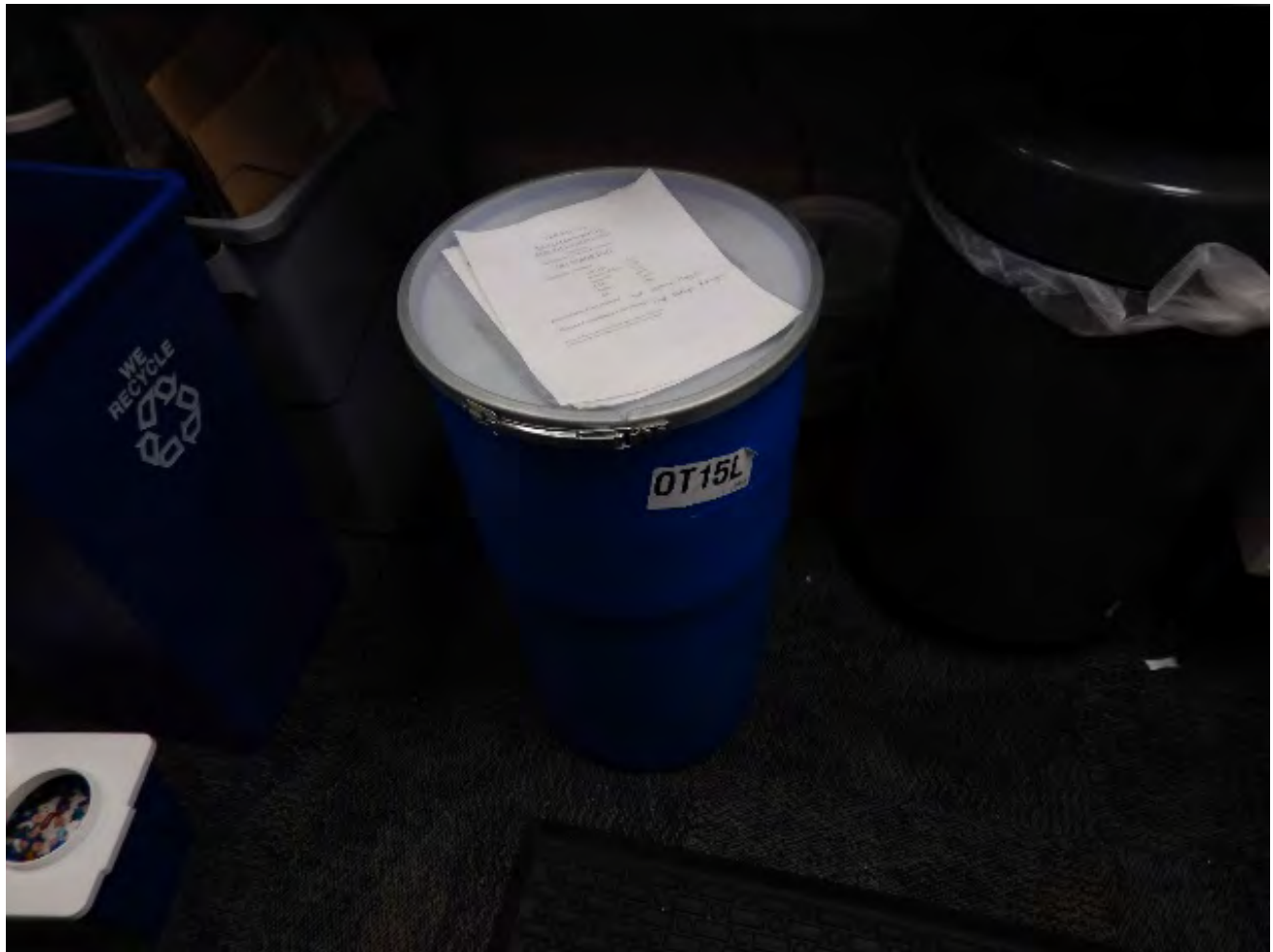
478 – PPE collection from blast area in building 282



479 – PPE collection from blast area in building 282



480 – SAA in clinic / Refil Pharmacy building 1090



481 – SAA in clinic / Refil Pharmacy building 1090



482 – SAA in clinic / Refil Pharmacy building 1090

Appendix 2

Inspection Participants Sign in Sheet

US Environmental Protection Agency - Region 6
1445 Ross Ave
Dallas, TX 75202-2733



Date: 25 July 2017

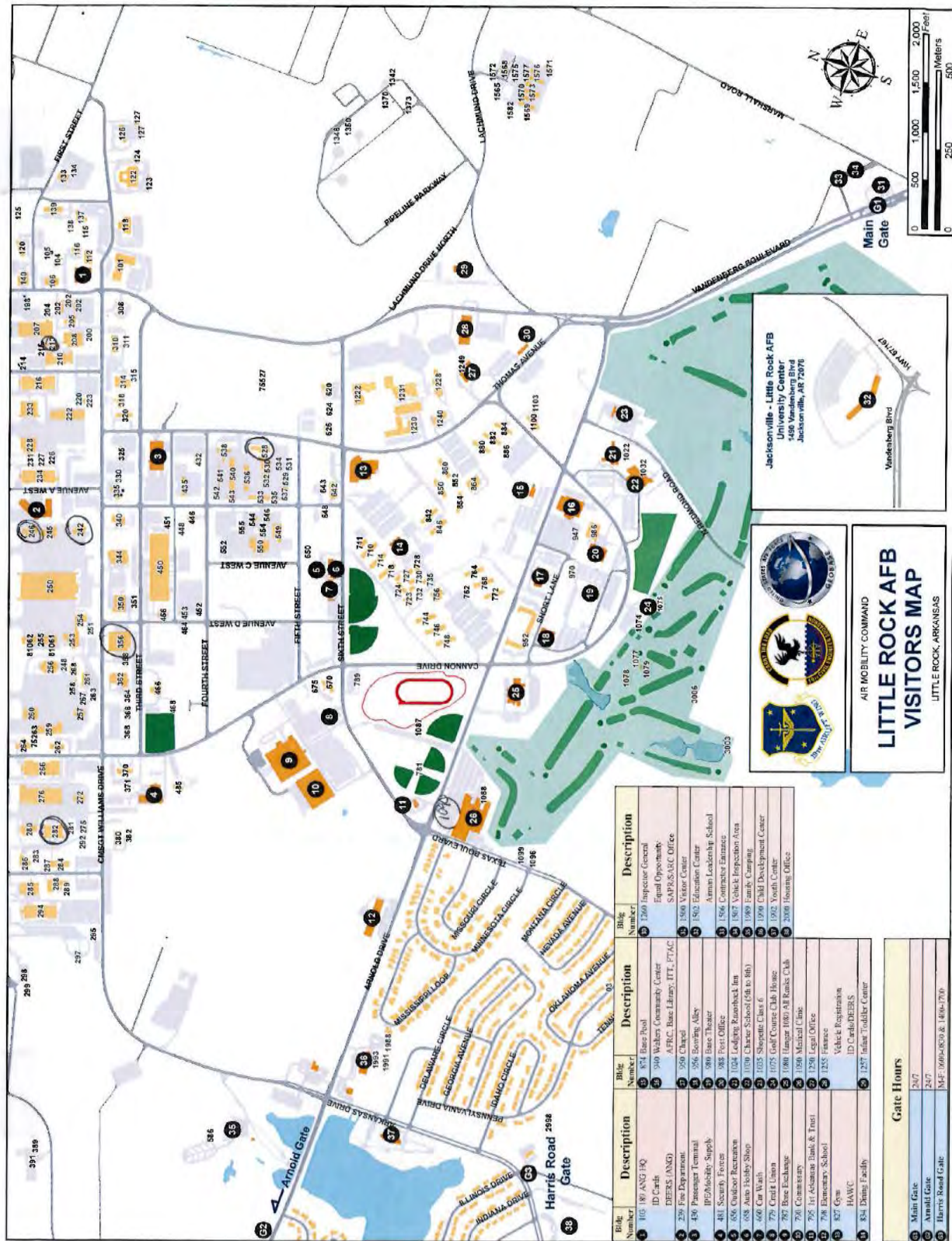
Inspection Participants Sign In Sheet

Name	Organization/Title	Telephone	email
Chris Schmidt	19 CES / Chief Environmental Compliance	501-987-7700	Chris.schmidt@us.af.mil
Ronnie Lynn Shaw	19 CES / CEPEC	501-987-8135	ronnie.shaw@us.af.mil
MIKE RAMSEY	19 CES / CET	501-987-7698	mike.ramsey@us.af.mil
John Sykes	ADEX	501-682-0034	sykes@adp.state.af.mil
John Gahr	19 CES	501-987-5277	john.gahr@us.af.mil
Betty Gahr	19 CES / CEPEC	501-987-6800	elizabeth.gahr@us.af.mil
Robby Weng	19 MXS	501-987-7484	robby.b.weng@mail.af.mil
Alfred Cotter	19 MXS	501-987-8586	alfred.cotter@us.af.mil
Daniel Gorman	AFRC / MXMX	501-987-4646	Daniel.Gorman@us.af.mil
Charles Fletcher	AFRC OEF / MXMX	501-987-2980	Charles.Fletcher@us.af.mil
ADRIAN SAYCEDA	19 MXS / MXMX	501-987-6518	adrian.sayceda@us.af.mil
Daniel Werner	19 CES / CC	501-987-3322	daniel.werner@us.af.mil
JENNIFER HARRIS	19 CES / CD	501-987-3322	Jennifer.Harris@us.af.mil
Andrew Stevens	19 MXS / MXMX	501-987-2290	Andrew.Stevens@us.af.mil
Vickie Bednar	19 MDPG	501-987-7570	vickie.bednar@us.af.mil
Frederick Abun	19 MDPG	501-987-8812	frederick.abun@us.af.mil

*

Appendix 3

Little Rock Air Force Base Visitors Map



Appendix 4

SAP's By Shop Report

SAPs by Shop Report

189 AW

LRK099 SURVIVAL EQUIPMENT - 189TH

Phone: 987-6208 Building No 207

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-068	LRK-WSN-068	LRK-PRF-068	TOLUENE RAGS, ADHESIVE CUPS	D035, F005

LRK100 SORTIE SUPPORT - 189TH

Phone: 987-7615 Building No 207

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-028	LRK-WSN-028	LRK-PRF-028	SOLVENT RAGS & HARDENED SEALANT W/ DEBRIS	F003, D006

LRK124 SHEET METAL - 189TH

Phone: 987-7489 Building No 213

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-040	LRK-WSN-040	LRK-PRF-040	PAINT WASTE	D001, D007, D035
LRK-SAP-041	LRK-WSN-041	LRK-PRF-041	PAINT PAPER, FILTERS, PARACHUTES	D007
LRK-SAP-042	LRK-WSN-042	LRK-PRF-042	PAINT RAGS	D006, D007, F005
LRK-SAP-043	LRK-WSN-043	LRK-PRF-043	SPENT BLAST MEDIA	D006, D007
LRK-SAP-052	LRK-WSN-052	LRK-PRF-052	PAINT RAGS	D007, F005
LRK-SAP-069	LRK-WSN-069	LRK-PRF-069	PAINT WASTE	D001, D007, D035
LRK-SAP-070	LRK-WSN-070	LRK-PRF-070	PAINT PAPER, FILTERS, PARACHUTES	D007

LRK131 PROPULSION SHOP 189TH

Phone: 987-3597 Building No 140

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-015	LRK-WSN-015	LRK-PRF-015	CUPS STICKS, BRUSHES W/ BOSTIK GLUE AND MEK RAGS	D008, D035

LRK187 SECURITY FORCES - 189TH

Phone: 987-8121 Building No 139

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-075	LRK-WSN-075	LRK-PRF-075	GUN CLEANING DEBRIS	D008

19 MDG

LRK024 MEDICAL CLINIC PHARMACY

Phone: 987-7446 Building No 1090

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-078	LRK-WSN-078	LRK-PRF-078	Waste Medicine	D001, D002, P075, I
LRK-SAP-079	LRK-WSN-079	LRK-PRF-079	Waste Medicine	D001, D002, P075, I

19 MSG

LRK004 ENTOMOLOGY

Phone: 987-6581 Building No 1565

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-036	LRK-WSN-036	LRK-PRF-036	WASTE PESTICIDE AEROSOL CANS, LESS THAN 1 LITER	D001, D003

LRK014 CE PAINT SHOP

Phone: 987-1355 Building No 536

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-032	LRK-WSN-032	LRK-PRF-032	PAINT THINNER/XYLENE/ALCOHOL	D001

LRK062 SFS - ARMORY - 19TH

Phone: 987-2377/717 Building No 481

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-022	LRK-WSN-022	LRK-PRF-022	GUN CLEANING DEBRIS	D008

LRL064 SFS - COMBAT ARMS - 19TH

Phone: 987-1351 Building No 1393

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRL-SAP-019	LRL-WSN-019	LRL-PRF-019	GUN CLEANING DEBRIS	D008

LRL070 HAZMO

Phone: 987-5277 Building No 1575

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRL-SAP-006	LRL-WSN-006	LRL-PRF-006	MERCURY LAMPS BROKEN	D009
LRL-SAP-050	LRL-WSN-050	LRL-PRF-050	PAINT WASTE	D001
LRL-SAP-051	LRL-WSN-051	LRL-PRF-051	LUBRICANT WASTE	D001, D039, D040
LRL-SAP-060	LRL-WSN-060	LRL-PRF-060	WASTE ADHESIVE, AEROSOL CANS	D001, D035

19 MXG

LRL031 PMEL - 19TH

Phone: 987-7114 / 71 Building No 344

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRL-SAP-011	LRL-WSN-011	LRL-PRF-011	ELECTROCHEMICAL SENSORS, TOXIC GAS AND OXYGEN	D008

LRL032 METALS TECHNOLOGY - 19TH

Phone: 987-6129 Building No 246

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRL-SAP-087	LRL-WSN-087	LRL-PRF-087	SPENT SAND BLAST MATERIAL	D006, D008
LRL-SAP-114	LRL-WSN-114	LRL-PRF-114	Metal Machining Coolant	D008

LRK033 CORROSION CONTROL - 19TH

Phone: 987-6518 Building No 282

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-020	LRK-WSN-020	LRK-PRF-020	PAINT WASTE	D001, D007, D035
LRK-SAP-030	LRK-WSN-030	LRK-PRF-030	PAINT RAGS	D007, F005
LRK-SAP-062	LRK-WSN-062	LRK-PRF-062	PAINT PAPER, FILTERS, PARACHUTES	D007

LRK034 SHEET METAL - 19TH

Phone: 987-7105 Building No 250/1

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-100	LRK-WSN-100	LRK-PRF-100	HARDENED SEALANT	D006, D007, F003
LRK-SAP-101	LRK-WSN-101	LRK-PRF-101	PAINT APPLICATION & REMOVAL DEBRIS	D007, F002

LRK037 NDI - 19TH

Phone: Building No 368

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-081	LRK-WSN-081	LRK-PRF-081	X - Ray Processing Fixer Waste	D039
LRK-SAP-082	LRK-WSN-082	LRK-PRF-082	X - Ray Processing Developer Waste	D039

LRK038 AGE - 19TH

Phone: 987-8138 Building No 256

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-031	LRK-WSN-031	LRK-PRF-031	PAINT SEMPENS AND WIPES	D007, D018, D035
LRK-SAP-045	LRK-WSN-045	LRK-PRF-045	OXYGEN SENSOR	D008

LRK040 ISO - 19TH

Phone: 987-7953 Building No 250

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-005	LRK-WSN-005	LRK-PRF-005	PAINT SEMPENS & WIPES	D007, D018, D035

LRK041 WHEEL & TIRE - 19TH

Phone: 987-6058 Building No 250

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-063	LRK-WSN-063	LRK-PRF-063	PARTS WASHER SLUDGE	D006, D007, D008,
LRK-SAP-080	LRK-WSN-080	LRK-PRF-080	Waste Naphtha	D001

LRK046 FUEL SYSTEMS REPAIR - 19TH

Phone: 987-2290 Building No 232

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-018	LRK-WSN-018	LRK-PRF-018	ISOPROPANOL	D001, D010, D035
LRK-SAP-038	LRK-WSN-038	LRK-PRF-038	HARDENED SEALANT AND CONTAMINATED DEBRIS	D006
LRK-SAP-059	LRK-WSN-059	LRK-PRF-059	MIBK RAGS	D006, F003

LRK047 HYDRAULICS - 19TH

Phone: 987-5666 Building No 242

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-012	LRK-WSN-012	LRK-PRF-012	PARTS WASHER SLUDGE	D006
LRK-SAP-057	LRK-WSN-057	LRK-PRF-057	DEBRIS CONTAMINATED WITH ADHESIVE AND SEALANT	D007, D008, D035

LRK050 J MODEL PROPS

Phone: 987-2779 Building No 466

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-037	LRK-WSN-037	LRK-PRF-037	HARDEND SEALANTS AND ADHESIVES	D007, D035
LRK-SAP-048	LRK-WSN-048	LRK-PRF-048	PAINT REMOVAL DEBRIS	D006, F003

LRK299 19th AMXS CTK

Phone: 987-1692 Building No 276

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-054	LRK-WSN-054	LRK-PRF-054	DEBRIS CONTAMINATED WITH ADHESIVE AND SEALANT	D007, D008, D035,
LRK-SAP-102	LRK-WSN-102	LRK-PRF-102	PAINT SEMPENS & WIPES	D007, D018, D035

19 OG

LRK036 AFE- MAIN SHOP

Phone: 987-7904 Building No 216

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-067	LRK-WSN-067	LRK-PRF-067	TOLUENE RAGS, ADHESIVE CUPS	D035, F005

LRK059 AFE- Flight Line

Phone: 987-3517 Building No 216

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-095	LRK-WSN-095	LRK-PRF-095	EMERGENCY BREATHING DEVICE	D001, D002, D005

314 MXG

LRK222 314 AMXS - CTK

Phone: 987-3098 Building No 234

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-056	LRK-WSN-056	LRK-PRF-056	DEBRIS CONTAMINATED WITH ADHESIVE AND SEALANT	D007, F003

913 AFRC

LRK042 CRF

Phone: 987-4646 Building No 356

Waste Site #	Waste Stream #	Profile #	Waste Name	Waste Codes
LRK-SAP-008	LRK-WSN-008	LRK-PRF-008	PARTS WASHER FILTER	D006
LRK-SAP-013	LRK-WSN-013	LRK-PRF-013	PAINT/ALODINE PENS & STRIPPER	D007, D011, D035,
LRK-SAP-065	LRK-WSN-065	LRK-PRF-065	PARTS WASHER SLUDGE	D006
LRK-SAP-071	LRK-WSN-071	LRK-PRF-071	PARTS WASHER FLUID Small Washers	D006
LRK-SAP-094	LRK-WSN-094	LRK-PRF-094	ADHESIVE / SEALANT	D007

Appendix 5

Red Plan / Emergency Response Action Plan

Little Rock AFB – Red Plan ("One Plan")

Emergency Response Action Plan

RED PLAN

SPILL REPORTING EMERGENCY NUMBERS

**Your BLDG. # or
LOCATION** _____

Your BLDG. MANAGER CONTACT NUMBER

FIRE DEPARTMENT 911

COMMAND POST 501-987-1900

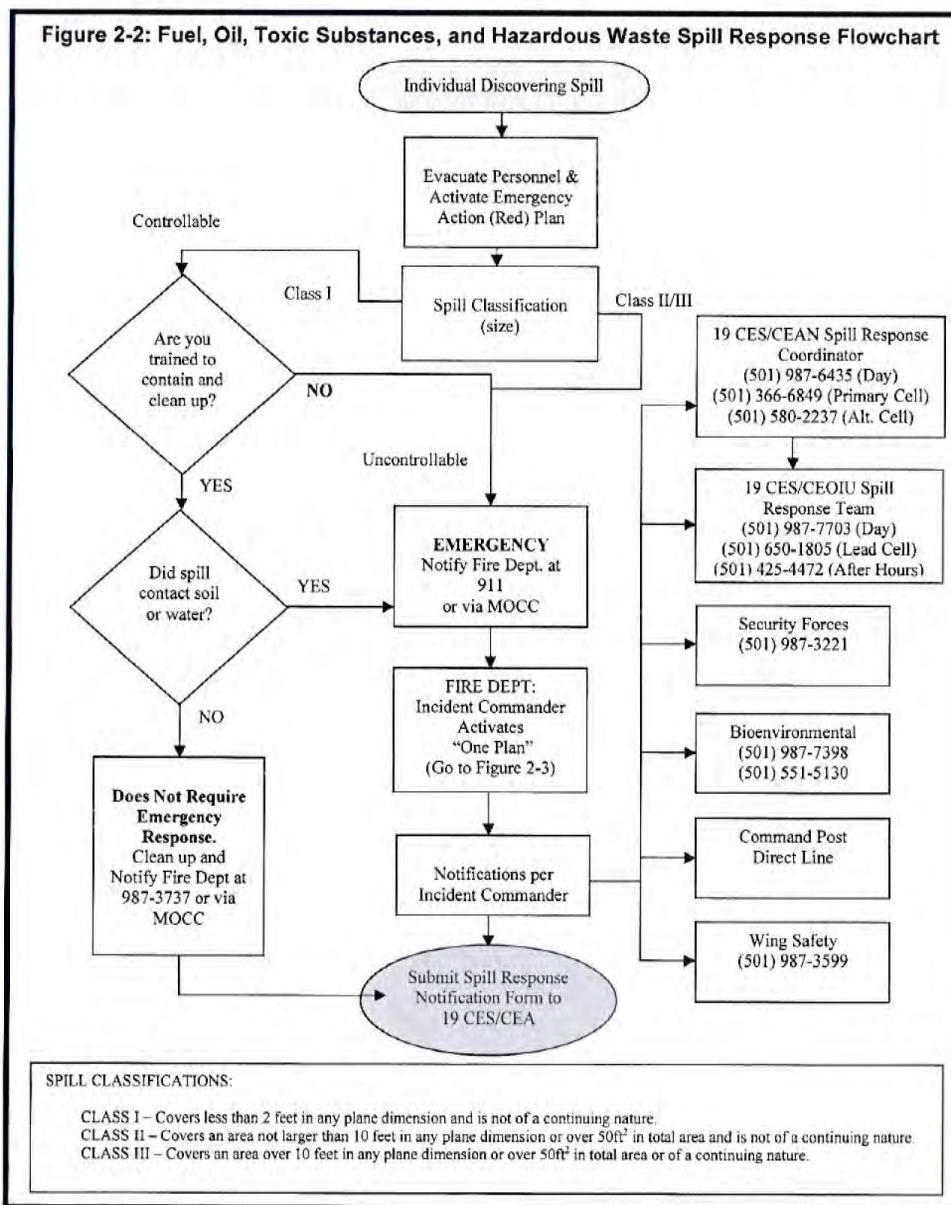
ENVIRONMENTAL 501-987-6809 OR 987-6435

Flightline: Call MOCC

Little Rock AFB – Red Plan (“One Plan”)

Emergency Response Action Plan

Figure 2-2: Fuel, Oil, Toxic Substances, and Hazardous Waste Spill Response Flowchart



Little Rock AFB – Red Plan (“One Plan”)

Emergency Response Action Plan

Red Plan Quick Reference Guide for Release Response

The Red Plan is a condensed version of the lengthy “One Plan” (Integrated Contingency Plan). Upon discovery of any size of oil, fuel, toxic substance (such as fire suppression foam or propylene glycol) or hazardous substance release (spill, leak, discharge, rupture, or over flow, including those to secondary containment) that may constitute an emergency, notify the Fire Department (911), who will determine if it is necessary to respond. The need for additional response by the Spill Response Team (SRT) will be determined by the Senior Fire Official (Incident Commander) responding to the spill. In addition, all releases occurring on the base, regardless of size, must be reported to the Environmental Flight (CEAN). Since only the Fire Department is equipped to handle HAZMAT spills, this reference is mainly directed to POL releases. **NEVER RISK THE SAFETY OF ANYONE.** Cleanup should only proceed if release is a substance that can be cleaned up by the user.

It is not the volume of the release, but the overall impact that must be assessed. In regard to oil or fuel, a harmful quantity of oil is a release that results in a violation of applicable water quality standards, **causes a film or sheen upon the water in or near a stream or ditch**, discolors the water, or causes an emulsion or sludge to be deposited beneath the surface of the water. If such a harmful quantity occurs, implementation is required. “One Plan” implementation for hazardous substances or listed hazardous wastes, and wastes characterized by ignitability, corrosivity, reactivity, and toxicity is required in the event that the hazardous substances or hazardous wastes are released.

Immediate Action Steps for Releases

WARNING -- DO NOT ATTEMPT ACTIVITIES IN CONFINED SPACES OR IN THE PRESENCE OF PETROLEUM OR CHEMICAL VAPORS. EVACUATE AREA AND IMMEDIATELY CONTACT THE LRAFB FIRE DEPARTMENT.

Step 1 Cease all work activities and evaluate if the scene is safe. Warn affected personnel in the area of the incident.

Step 2 Call 911 for Class II and III Spills. To determine when to call in for help or when to notify the Fire Department, use the following Spill Classification categories and the Flow Chart in Figure 2-2 as a quick reference.

Spill Classification - LRAFB uses the same criteria as fuel/oil for classifying Hazardous Waste spills. Note that for a Class I spill that the Fire Department is notified as a courtesy only, but does not make a full response.

- **Class I Spill**—A Class I Spill is a fuel (or hazardous waste at LRAFB) spill that covers less than 2 feet in any plane dimension and is not of a continuing nature. If trained to clean up the spill, and if contaminant DID NOT come into contact with the soil or water, clean the spill up and notify the Fire Department later at 987-3737 as a courtesy. If the spill migrates to soil or water, call 911. Also, if unsure of the seriousness of the release, call 911.
- **Class II Spill**—A Class II Spill is a fuel (or hazardous waste at LRAFB) spill that covers an area not larger than 10 feet in any plane dimension or over 50 ft² and is not of a continuing nature. Call 911.
- **Class III Spill**—A Class III Spill is a fuel (or hazardous waste at LRAFB) spill that covers an area over 10 feet in any plane dimension or over 50 ft² in total area or of a continuing nature. Call 911.

Also notify your Work Supervisor. For fuel releases on the flightline, notify the MOCC, who will then notify the Fire Department.

Step 3 IF NECESSARY EVACUATE, following these procedures:

- Move all personnel to a safe distance upwind from the release and secure the area if it is safe to do so. For HAZMAT spills, follow the site specific building evacuation plan.
- Personnel will proceed immediately to the designated area in the site specific evacuation plan.
- Personnel must report to their supervisors when they reach the designated area.
- Supervisors must make sure that all personnel arrive. If personnel must leave the assembly area during an emergency evacuation, they must first notify a supervisor or other personnel.
- Those who require immediate medical treatment should notify their supervisor.
- After being accounted for, all personnel will leave the designated area as directed by their supervisors.

Step 4 Relinquish control to the Fire Department upon their arrival. The Chief and/or Senior Fire Official will serve as the Incident Commander (IC) and will determine the level of release response necessary. The using unit is responsible

Little Rock AFB – Red Plan ("One Plan")

Emergency Response Action Plan

for the cleanup of all releases. On POL releases, the Fire Department is present to protect the property and personnel. In the event the release is larger than the user can control, the Fire Department will assist in controlling the release in an effort to prevent the POL from reaching soil and/or water. The IC will activate the Spill Response Team (SRT) for oil and fuel spills if the cleanup is beyond the units capabilities. If a hazardous waste cleanup other than fuel or oil is needed, or if the fuel or oil spill exceeds the SRT's cleanup capability, the IC or 19 CES/CEA will call in the selected Oil Spill Removal Organization (OSRO). The user will reimburse or replace spill cleanup materials used by the Fire Department and/or the SRT.

ADDITIONAL STEPS TO TAKE FOR INITIAL RESPONSE, SUSTAINED ACTIONS, TERMINATION, AND FOLLOW-UP ACTIONS

- 1) **IF/WHEN THE SCENE IS SAFE, EVALUATE THE INCIDENT AND IDENTIFY THE SOURCE OF THE SPILL/RELEASE** (if it can be performed safely).
- 2) **QUICKLY STOP THE SOURCE OF THE DISCHARGE OR RELEASE** – Act quickly to secure pumps, close valves, close spill drains, and tighten gaskets as appropriate.
- 3) **WARN PERSONNEL OF THE DANGER** – Enforce safety and security measures and secure area. Keep non-essential persons away, isolate the area, and ensure necessary personnel stay upwind and avoid low lying areas.
- 4) **SHUT OFF IGNITION SOURCES** – Shut off all potential ignition sources, including motors, electrical circuits, cell phones, two way radios, and open flames.

CONTAIN THE RELEASE – If conditions are safe, take the following additional measures to the extent possible:

- 5) **PUT ON THE PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE)** consistent with your level of training (i.e., face shield, apron, goggles, gloves, etc.).
- 6) Attempt to **CONTAIN THE MIGRATION OF THE SPILL** through the use of spill control equipment and/or containment. If possible, the following response measures should be taken if conditions are safe.
 - Stand leaking drums or containers upright;
 - Apply absorbent material: such as pads or socks, dry sweep, etc.
 - Plug leaks;
 - Block storm drains, sanitary sewer inlets, or ditches;
 - Build temporary dikes to prevent further spreading or contamination using soil, sand, absorbents, or booms.
 - Shut down equipment;
 - Apply absorbent material;
 - close the sluice gates.
- 7) If on the Flightline, contact Expeditor and Pro-Super who have **spill kits** in their vehicles, and have access to two "Super Soppers for cleaning up larger volume spills. Each unit should have spill kits available. Try to contain the release to the concrete parking area.
- 8) Once the spill has been stopped, proceed with cleanup efforts: **Do not hose down spilled material into floor drains, storm drains, sanitary sewer, soil or water! WARNING** Spilled substance may be flammable. Do not use metal shovels or rakes or any other equipment that may cause a spark.
 - If spills escape secondary containment, the Fire Department will contact the SRT for clean up in soil or water. 19 CES/CEAN has a purchasing agreement in place for emergency response with an off-base contractor to clean up contaminated soil or water.
 - **Recovery/clean up operations shall commence on the perimeter of the spill and progress inward.**
 - Absorb or scoop free-floating material into a container, separating liquids from solids.

Little Rock AFB – Red Plan (“One Plan”)

Emergency Response Action Plan

- Used absorbents will be properly containerized and will be rung out by the HAZMO and Fuels Maintenance. HAZMO will provide guidance on the proper disposal procedures for absorbents and other contaminated materials.
- Do not process flammable or combustible material in a manner that could ignite it.
- Absorb residual contaminants with absorbents and place them in DOT-approved containers for disposal.
- In accordance with (IAW) the facility’s Hazardous Waste Management Plan (HWMP), containerize all spill residue and related waste.

9) **AFTER-INCIDENT REPORTING.** Coordinate with CEA on completion of a Spill Notification Report as soon as possible, but no later than close of business the next business day. A blank copy is at the end of this plan with root cause choices. Contact CEAN at 987-6809 for an editable form. **ALL SPILLS CLASS I THROUGH III MUST BE REPORTED TO 19 CES/CEA WITHIN 24 HOURS EVEN IF THE FIRE DEPARTMENT DOES NOT RESPOND.**

Spill Response Team Members

The IC determines if the SRT should be called. The Red Plan is a component of the “One Plan”, and components cannot be changed. However, a list of Spill Response Team members effective 23 February 2012 follows, but letters from the Spill Response Team coordinator or the Water and Fuels Maintenance Foreman will be sent out periodically with team member updates.

Primary SRT Members

NAME	OFFICE PHONE	CELL/HOME PHONE	CALL SIGN
Ms. Pam Waisanen	501-987-6809	501-366-6849/366-6202	Environmental 1
Mr. Milton Murphy	501-987-7703	501-650-1805	Fuels 1
Mr. James Buehring	501-987-7703	501-515-2650	Fuels 2
TSgt Brian Perry	501-987-7703	501-416-5144	Fuels 2
SSgt James Ming	501-987-7703	501-336-3478	Fuels 3
SSgt Scott Triplett	501-987-7703	501-286-7054	Fuels 4
SSgt Larry Brown	501-987-7703	501-259-4919	Fuels 5

Alternate SRT Members

Mr. Ron Love	501-987-7700	501-580-2237
Mr. Lynn Shaw	501-987-8135	501-837-0624
SSgt Jacob Sober	501-987-7703	501-529-2492
SSgt Joseph Rose	501-987-7703	501-749-3232
SSgt David Grose	501-987-7703	501-912-8639
SrA Nathan Atkins	501-987-7703	501-230-4947
SrA Richard Moore	501-987-7703	501-743-8561
SrA Steven Ocker	501-987-7703	940-613-2450

Report 25-gallon fuel spills to AMC through the Spill Incident Report Internet System (SIRIS) <https://www.my.af.mil/accgeoprod4/a7a/siris/default.aspx> website. For spills greater than 25 gallons, migration to stream or soil, report to ADEQ.

Use the EPA class of spill for post-notification reporting to the EPA. A Minor Spill is an oil discharge less than 1,000 gallons, or a discharge of any quantity of material that does not pose a threat to public health or welfare. Minor spills should be reclassified as medium or major spills, depending on the degree of impact if they 1) make contact with soil or water, 2) occur in or endanger critical water areas, 3) generate critical public concerns, 4) become a focus of an enforcement action, or 5) pose a threat to the public health or welfare. A Medium Spill is an oil discharge between 1,000 and 10,000 gallons in the inland waters that poses a threat to public health or welfare. A Major Spill is an oil discharge of more than 10,000 gallons in inland waters or a discharge of any quantity of material or substance that threatens the public health or welfare or generates wide public interest. If more than 1,000 gallons of oil is discharged in a single incident or more than 42 gallons has been discharged in two incidents within a 12 month period, the EPA must be post-notified within 60 days (40 Code Federal Regulation [CFR] 112.4).

Little Rock AFB – Red Plan (“One Plan”)

Emergency Response Action Plan

Spill Response Notification Form: Complete All Fields	
NAME AND PHONE NUMBER OF PERSON COMPLETING FORM	
Reporter Information	
Date and Time of Incident	(Use 24 hour time)
REPORTER'S NAME (LAST, FIRST)	
REPORTER'S PHONE NUMBER	
Company, Squadron, Shop, or Department	
Position	
Reporter's Location	
Release Description	
EXTENT OF INJURY (IF ANY)	
MATERIAL RELEASED	☒ Oil/Fuel Type of Fuel _____ ☐ Hazmat/Unknown Chemical Name _____
x YES	
	Best Estimate of Quantity Released to Land <u> 0 </u> (include units)
	Best Estimate of Quantity Released to Water <u> 0 </u> (include units)
TYPE OF INCIDENT (CHECK ALL THAT APPLY)	☐ Inside building or containment area ☐ Flight line ☐ Soil ☐ Water (ditch, stream, wetland, or storm drain) ☐ Release to sanitary sewer ☐ Fire ☐ Explosion ☐ Air Release
SOURCE AND ROOT CAUSE OF INCIDENT	
DATE AND TIME OF INCIDENT	
INCIDENT ADDRESS/LOCATION	
(Include state and zip code)	LRAFB AR 72099
Container Type & Capacity for storing recovered product (include units)	
Weather Conditions	
Wind speed and direction; Temperature.	
Precipitation rate & type	
Actions Taken	
CEAN USE ONLY	
Date & Time Initial Release Report Received	

Little Rock AFB – Red Plan (“One Plan”)

Emergency Response Action Plan

Spill Response Notification Form Root Causes
A9.1. Insufficient Training A9.1.1. No Training Provided. Were training needs inadequately provided for? A9.1.2. Inadequate Content to Training Curricula. Was the content of the material inadequate? A9.1.3. Inadequate Presentation of Training. Was the process for presenting the training material inadequate? A9.1.4. Insufficient Practice or Hands-On Experience. Were the education, experience, or training levels of personnel inadequate? A9.1.5. Insufficient Refresher Training or Certification. Was the process for testing, maintaining qualifications, or documenting qualifications of personnel inadequate? A9.1.6. Inability to Learn. Was the worker unable to successfully pass the appropriate training course? A9.2. Inadequate Funding. Were the physical conditions in the work area inadequate due to insufficient funding? Were the workplace layout, housekeeping, climate control, or lighting inadequate to perform assigned tasks due to insufficient funding? Did crowded Conditions; excessive noise; a radiation, chemical, or electrical hazard exist in the workplace due to insufficient funding? Was inadequate safety equipment on hand due to insufficient funding? A9.2.1. Funding Not Available. Were funds unavailable to perform required tasks? A9.2.2. Improper Resource Allocation/Funds Used Incorrectly. Were funds used in an inappropriate manner? A9.3. Inadequate Operational Procedures A9.3.1. Inadequate Execution A9.3.1.1. Inadequate Administrative Controls. Were the administrative techniques used to control overall policies, procedures, or requirements inadequate? A9.3.1.2. Work Organization/Planning Deficiency. Was the process for planning or scheduling inadequate? Was the process for tracking or implementing corrective actions inadequate? A9.3.1.3. Inadequate Supervision. Were the techniques used to directly control the work inadequate? A9.3.1.4. Inattention to Detail. Was the physical or emotional ability of personnel inadequate to perform the assigned tasks? A9.3.1.5. Inadequate Quality Assessment/Quality Control. Was the process for quality control or quality assessment inadequate? A9.3.1.6. Inadequate Maintenance or Testing. Were the processes for ongoing maintenance of operability testing of equipment or systems inadequate? A9.3.1.7. Oral Communication Problem. Was the oral presentation or exchange of information inadequate? A9.3.1.8. Improper Use of Procedures. Were written procedures improperly used? A9.3.1.9. Violation of Requirement or Procedure. Was there an obvious violation of policy or procedure? A9.3.1.10. Policy Not Posted Adequately. Was policy or procedure unavailable for ready inspection or reference? A9.3.2. Guidance/Policy Does Not Exist A9.3.2.1. Defective or Inadequate Procedure. Did the procedure or policy prove insufficient as written for the tasks assigned? Was the format or content of written procedures inadequate? A9.3.2.2. Lack of Procedure. Were written procedures not developed and available for use? A9.3.2.3. Spoken Policy Only/Policy Unwritten. Were procedures or policy unwritten and subject to incomplete dissemination or unclear interpretation. A9.4. Insufficient Manpower A9.4.1. Inadequate Staffing. Were insufficient personnel available to perform required tasks? A9.4.2. Work Practices (excessive overtime/fatigue due to overwork). Were adequate methods used to assure the

Little Rock AFB – Red Plan ("One Plan")

Emergency Response Action Plan

Spill Response Notification Form Root Causes

safe or timely performance of tasks assigned?

A9.5. External Factors

A9.5.1. Defective or Failed Part. Was the performance of equipment or systems inadequate due to equipment failure?

A9.5.2. Defective or Inadequate Material. Were the processes for manufacturing, construction, installation, or acceptance of equipment or materials inadequate?

A9.5.3. Error by Manufacturer in Shipping or Marking. Was the process for packaging, shipping, receiving, handling?

A9.5.4. Contamination by External Conditions. Was equipment or materials allowed to be contaminated prior to use?

A9.5.5. Inadequate Man/Machine Interface. Was the equipment used to communicate information from system to personnel or from personnel to systems inadequate?

A9.5.6. Error in Equipment or Material Selection or Procurement. Was the process for specifying and buying services, equipment, or materials inadequate?

A9.5.7. Drawing, Specification, or Data Errors. Were the drawings, specifications, or data in error?

A9.5.8. Human Factors Beyond the Control of the Base. Was the condition caused by a human factor beyond the direct control of the base?

A9.5.9. Environmental Factors Beyond the Control of the Base. Was the condition caused by non-human factors beyond the direct control of base personnel?

Appendix 6

Bead Blasting Media & Recycling Services

Performance Work Statement

BBM PWS
28 JAN 2011

**BEAD BLASTING MEDIA
&
RECYCLING SERVICES
PERFORMANCE WORK STATEMENT**

LITTLE ROCK AIR FORCE BASE, ARKANSAS

BBM PWS
28 JAN 2011

1. SCOPE OF WORK.

The contractor shall furnish all labor, materials, tools, equipment, transportation, supervision, and other items and /or services necessary to provide the following to Little Rock Air Force Base (LRAFB), Arkansas:

- A) Plastic Media
- B) Glass Media
- C) Mixed Media Recycling Services

1.A. PLASTICE MEDIA

The contractor shall provide an initial issue of six (6) drums (55 gal / est. 250 lbs per drum) of Type V (Acrylic Plastic) media. Plastic media must meet military specification criteria MIL-P-85891 and conform to T.O. 1-1-8. Plastic media manufacturer must also be listed on the most current list of authorized manufacturers. This bi-annually updated list, maintained by the Air Force Corrosion Prevention and Control Office (AFCPCO), lists manufacturers whose products have been tested and meet Air Force requirements and first article requirements of MIL-P-85891. The AFCPCO may be contacted via email: afcorr@robins.af.mil or commercial telephone: 478-926-3284 for more information about the approved PMB manufacturer list. Deliveries following the initial issue shall be made quarterly. It is preferable that deliveries be made in October, January, April, and July so that services are in accord with the government fiscal year funding schedule. It is requested that delivery quantities be equal to the quantities removed from the holding area at time of recyclable media pick-up. Quantities may vary as long as the total delivered quantities remain at or below the estimated quantities assigned to the current performance period. Contractor is responsible for maintaining an accurate record of the quantities delivered. Unless prior authorization was provided via a bilateral modification released by a warranted Contracting Officer, delivery of quantities in excess of the total estimated quantities listed for the current performance period in the resulting contract shall be considered "Unauthorized Commitments".

1.A.1. PLASTIC MEDIA SHIPPING CONTAINERS

The plastic media shall be delivered in Department of Transportation approved shipping containers. Containers shall be reusable so that the Using Activity may reuse containers to collect used mixed (glass / plastic) media that will be shipped for recycling. UN-marked and tested to Packing Group I or II Steel Drums are the prefer container.

1.A.2. CONTAINER SHIPPING LABELS

The contractor shall provide container labels. Labels shall identify container contents, indicate that the contents are "Recyclable Material", and provide a bill of lading.

1.A.3. DESIGNATED DELIVERY LOCATION:

19 EMS WASTE ACCUMULATION POINT
BUILDING 281
CHIEF WILLIAMS DRIVE
LITTLE ROCK AFB, AR 72099
TEL: (501) 987-6518 / 8574

BBM PWS
28 JAN 2011

1.B. GLASS MEDIA

The contractor shall provide an initial issue of six (6) bags (50 lbs per bag) of AMS 2431/6 glass bead media. Glass media should conform to the specifications at AMS 2431/6, AMS-S-13165 (MIL-S-13165), and T.O. 1-1-691. Deliveries following the initial issue shall be made semi-annually. It is preferable that deliveries be made in October and April so that services are in accord with the government fiscal year funding schedule. Quantities may vary as long as the total delivered quantities remain at or below the estimated quantities assigned to the current performance period. Contractor is responsible for maintaining an accurate record of the quantities delivered. Unless prior authorization was provided via a bilateral modification released by a warranted Contracting Officer, delivery of quantities in excess of the total estimated quantities listed for the current performance period in the resulting contract shall be considered "Unauthorized Commitments".

1.B.1. DESIGNATED DELIVERY LOCATION:

19 EMS WASTE ACCUMULATION POINT
BUILDING 281
CHIEF WILLIAMS DRIVE
LITTLE ROCK AFB, AR 72099
TEL: (501) 987-6518 / 8574

1.C. MIXED MEDIA RECYCLING

The contractor shall provide used mixed media (glass / plastic) recycling services in accordance with all applicable local, state and federal regulations. The recycling process must be approved by the Environmental Protection Agency (EPA). Documentation explaining the recycling process shall be provided to the Contract Administrator and should be included in the resulting contract file. Contractor shall make quarterly pick-up of used mixed media for recycling. It is preferable that pick-up be made in October, January, April, and July so that services are in accord with the government fiscal year funding schedule. Pick-up quantities may vary as long as the total pick-up quantities remain at or below the estimated quantities assigned to the current performance period. Contractor is responsible for maintaining an accurate record of the quantities picked up. Unless prior authorization was provided via a bilateral modification released by a warranted Contracting Officer, pick-up of quantities in excess of the total estimated quantities listed for the current performance period in the resulting contract shall be considered "Unauthorized Commitments". If possible, it is preferable if delivery and pick-up take place simultaneously.

The contractor must provide the government with Documentation of Recycling (i.e. Certificate of Destruction) for the spent media transported off Little Rock Air Force Base for recycling. Documentation shall be sent to the following:

19th Contracting Squadron
Contracting Officer
642 Thomas Avenue
Little Rock AFB, AR
72099-4971

1.C.1. DESIGNATED PICK-UP LOCATION:

19 EMS WASTE ACCUMULATION POINT
BUILDING 281
CHIEF WILLIAMS DRIVE
LITTLE ROCK AFB, AR 72099
TEL: (501) 987-6518 / 8574



BBM PWS
28 JAN 2011

2.0. POLICY FOR THE HANDLING OF HAZARDOUS MATERIALS ON LRAFB

The Contractor shall abide by local, state, federal and Air Force environmental regulations and instructions applicable to this requirement. This includes, but is not limited to the following:

- 80 APC&EC Regulation 23 Hazardous Waste Management; 40 CFR Parts 350, 355, 370 and 372; OSHA 1910.120, and AFI 32-7086 Hazardous Materials Management.
- The contractor shall not bring hazardous and/or potentially hazardous material on the installation without prior authorization by the HAZMO CAP located in Bldg 1575. The current point of contact is Mr. Keith Henson, 501-987-5440. The contractor must first notify the Contracting Office (19 CONS/LGCA2, 501-987-3303) prior to requesting authorization from the HAZMO CAP.
- The contractor shall be responsible for the safe handling of potentially hazardous materials the contractor is transporting onto / off Little Rock Air Force Base. Should the contractor release HAZMAT into the environment on LRAFB, the contractor shall immediately notify the Little Rock Air Force Base Fire Department (911) and 19 CES/CEAN Section Chief (501-987-7700). The contractor should initiate clean-up if doing so can be done safely. Should it be necessary for base personnel to become involved in clean-up operations, the contractor shall be responsible for the reimbursement of all costs incurred by the government. Reimbursement shall include supplies, man-hours, and disposal of the waste.

2.1. DEFINITIONS

- HAZMAT is defined as any item or class of items referenced in Federal Standard 313D, paragraph 3.2 and all Class I and Class II ODS. Federal Standard 313D paragraph 3.2 reads as follows:
 - Any item or chemical which is a "health hazard" or "physical hazard" as defined by OSHA in 29 CFR 1910.1200, which includes the following:
 - ✓ chemicals which are carcinogens, toxic or highly toxic agents, reproductive toxins, irritants, corrosives, sensitizers, hepatoxins (liver), nephrotoxins (kidneys), neurotoxins (nervous system), agents which act on the hematopoietic (blood) system, and agents which damage the lungs, skin, eyes, or mucous membranes;
 - ✓ chemicals which are combustible liquids, compressed gases, explosives, flammable liquids, flammable solids, organic peroxides, oxidizers, pyrophorics, unstable (reactive) or water reactive;
 - ✓ chemicals which in the course of normal handling, use, or storage operations may produce or release dusts, gases, fumes, vapors, mists, or smoke which may have any of the above characteristics.

BBM PWS
28 JAN 2011

3.0. CONTRACTING SQUADRON POINTS OF CONTACT:

Primary POC:

Lucy Ngiraswei, SrA, USAF
Contract Specialist / Administrator
19 CONS/LGCA2
EMAIL: lucille.ngiraswei@us.af.mil
COM: 501-987-7115
FAX: 501-987-8119

Contracting Squadron Contracting Officer:

Nancy K. Chronister, CIV, USAF
Contracting Officer / Team Lead
19 CONS/LGCA2
EMAIL: nancy.chronister@usk.af.mil
COM: 501-987-3843
FAX: 501-987-8119

All inquiries/clarifications regarding the terms & conditions of this requirement and that of the resulting contract shall be addressed by the Contracting Squadron Contracting Officer. Only a warranted Contracting Officer has the legal authority to bind the government. Only the Contracting Officer has the legal authority to award / extend / terminate a government contract. Work performed other than the work contracted for or expressly authorized by the Contracting Officer shall be considered an "Unauthorized Commitment". Government employees who knowingly allow service to continue / be performed in the absence of a contract may be in violation of the Anti-Deficiency Act and may be subject to disciplinary action.

Appendix 7

US Technology Media Inc. Lease & Recycle Program Overview

**Marked Confidential Business Information by US
Technology. Available for review under CBI only.**

Appendix 8

Arkansas Department of Environmental Quality Letter



August 04, 2006

James Swinderman
Director, Corporate Administration
U.S. Technology Corporation
1446 West Tuscarawas Street
Canton, OH 44702

Dear Mr. Swinderman:

We are in receipt of your instruction booklet dated April 24, 2006 requesting Confirmation of Environmental Exemption Status to recycle Spent Blast Media and your instruction booklet dated April 7, 2006 on your Recycling Program that integrates the Spent Blast Media into your manufacturing process to produce compression formed or cast products including masonry block.

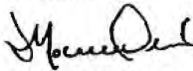
The Arkansas Department of Environmental Quality, Solid Waste Management Division Recycling & Marketing Branch, is challenged and encouraged to develop and expand recycling markets. Therefore, we are pleased to collaborate with other state recycling programs that use, reuse or reclaim recovered materials.

After reviewing your submitted request for Confirmation of Environmental Exemption Status for Spent Blast Media, ADEQ finds your process satisfies APC&EC's Regulation Number 23, Section 261.2(e) (1) (i) when reused in accordance with the procedures detailed in both instruction booklets is exempt from the definition of solid waste and, therefore, is not hazardous waste and is exempt from regulation. In addition, APC&EC's Regulation Number 23 Section 261.2(e)(2) prohibits excluded materials from being used in a manner constituting disposal, used to produce products that are applied to the land, or accumulated speculatively. Any of the material that may be released into the environment, to be used for some purpose other than that described in the information submitted to ADEQ, or that is discarded or abandoned, may be subject to regulation as hazardous waste.

Also, your process obeys the rules of Recycling and Recovered Materials according to the Arkansas Pollution Control and Ecology Commission's Regulation 22 and the Solid Waste Management Division of the Arkansas Department of Environmental Quality.

Should clarification or more information become necessary, please contact Kevin T. Harris at 501-682-0609.

Sincerely,



Marcus C. Devine
Director

MCD/kth

cc: Mary Leath
Steve Martin
Robert Hunter
Ryan Benefield
Darren Morrissey

Appendix 9
Hazardous Waste Profile Sheet
LRK-PRF-043

HAZARDOUS WASTE PROFILE SHEET			
NOTE: Explosives, Shock Sensitive, Pyrophoric, Radioactive, and Etiological Waste are not normally accepted by the DRMO Contact your DRMO for further guidance if your waste meets any of these categories.			
Part I			
A. GENERAL INFORMATION			WASTE PROFILE NO. LRK-PRF-043 v3
1. GENERATORS NAME LITTLE ROCK AFB			4. GENERATOR USEPA ID AR6571824808
2. FACILITY ADDRESS 8528 THOMAS AVE			
3. ZIP CODE 72099			
LITTLE ROCK AR United States			
ORGANIZATION NAME 189 AIRLIFT WG	SHOP NAME 1891H SHEET METAL	OFFICE SYMBOL MXMFS	5. GENERATOR STATE ID
6. TECHNICAL CONTACT ELIZABETH GAMBER		7. TITLE Environmental Contact	8. PHONE (501) 987-6800
B. WASTE INFORMATION			
1. NAME OF WASTE: HAZARDOUS WASTE, SOLID, N.O.S. (CADMIUM, CHROMIUM)			
2A. USEPA WASTE CODE D006, D007			
2B. STATE/LOCAL/HOST NATION WASTE CODES 940400 \$1.00			
3. PROCESS GENERATING WASTE			
4. PROJECTED ANNUAL VOL		5. MODE OF COLLECTION DRUM	
6. IS THIS WASTE A DIOXIN LISTED WASTE AS DEFINED IN CFR 261.31?		☐ YES ☒ NO	
7. IS THIS WASTE RESTRICTED FROM LAND DISPOSAL? (40 CFR 268)		☒ YES ☐ NO	
HAS AN EXEMPTION BEEN GRANTED?		☐ YES ☒ NO	
DOES THE WASTE MEET APPLICABLE TREATMENT STANDARDS ALREADY?		☐ YES ☒ NO	
(If yes, Enter Reference Standards in Part 3, Block 6)			
Part II			
1. MATERIAL CHARACTERIZATION (Optional - Not Required Data)			
COLOR:	DENSITY:	BTU/LB:	
TOTAL SOLIDS:		ASH CONTENT:	
LAYFRING ☐ MULTILAYERED ☐ BILAYERED ☐ SINGLE			
2. RCRA CHARACTERISTICS			
PHYSICAL STATE ☐ SOLID ☐ LIQUID ☐ SEMI-SOLID ☐ GAS ☐ OTHER			
OTHER CHARACTERISTICS			
☐ IGNITABLE ☐ CORROSIVE (D002) ☐ REACTIVE (D003) ☐ WATER REACTIVE ☐ CYANIDE REACTIVE ☐ SULFIDE REACTIVE			
Flash Point: ph:			
☐ HIGH TOC ($\geq 10\%$) ☐ LOW TOC ($<10\%$) TREATMENT GROUP: ☐ WASTEWATER ☒ NON-WASTEWATER			

HAZARDOUS WASTE PROFILE SHEET (Continued)			WASTE PROFILE NO. LRK-PRF-043 v3	
3. CHEMICAL/MATERIAL COMPOSITION List all components and contaminants, including PCB's, and any applicable F-Listed and underlying Hazardous Constituents.				
CAS #	COMPONENT (Be as descriptive as possible. Chemical names, as well as generic descriptions, e.g., 'sludge', 'paint solids', 'water' etc. are acceptable)	CONCENTRATION	RANGE	
	NON-HAZARDOUS	= 37 %	37.0 %	to 37.0 %
RANGE TOTAL MUST EQUAL AT LEAST 100%				
3. MATERIAL COMPOSITION / UNDERLYING HAZARDOUS CONSTITUENTS				
CAS #	COMPONENT (Be as descriptive as possible. Chemical names, as well as generic descriptions, e.g., 'sludge', 'paint solids', 'water' etc. are acceptable)	CONCENTRATION	RANGE	
7440439	CADMIUM	= 11 MG/L	11.0 %	to 11.0 %
7440473	CHROMIUM	= 52 MG/L	52.0 %	to 52.0 %
RANGE TOTAL MUST EQUAL AT LEAST 100%				

HAZARDOUS WASTE PROFILE SHEET (Continued)		WASTE PROFILE NO. LRK-PRF-043 v3
4. SHIPPING INFORMATION		
DOT HAZARDOUS MATERIAL? ☒ YES ☐ NO		
PROPER SHIPPING NAME Hazardous waste, solid, n.o.s.		
HAZARD CLASS	U.N. or N.A. NO. NA3077	PACKING GROUP III
ADDITIONAL DESCRIPTION HAZARDOUS WASTE, SOLID, N.O.S. (CADMIUM, CHROMIUM)		
METHOD OF SHIPMENT ☐ BULK ☒ DRUM ☐ OTHER		
EMERGENCY RESPONSE GUIDE EDITION (YR)		EMERGENCY RESPONSE NUMBER
5. SPECIAL HANDLING INFORMATION		
6. GENERATOR CERTIFICATION		
☒ CHEMICAL ANALYSIS (ATTACH TEST RESULTS) ☐ USER KNOWLEDGE (ATTACH SUPPORTING DOCUMENTS)		
EXPLAIN HOW AND WHY THESE DOCUMENTS COMPLY WITH RCRA REQUIREMENTS		
CERTIFICATION		
I, <u>Elizabeth Gamber</u> HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS TO THE BEST OF MY KNOWLEDGE AN ACCURATE REPRESENTATION OF THE WASTE TURNED IN TO THE DRMO. ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.		
GAMBER.ELIZABETH.K.1 511385322		13 Feb 2017 Date
Signature of Generator's Representative		



Oneida Total Integrated Enterprises
ATTN: Ms. Keely Meadows
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

Lrk-PRF-043

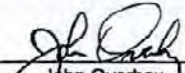
*189th Corrosion / Sheet Metal
Sand Blast*

March 18, 2015
Control No. 188278
Page 1 of 29

This report contains the analytical results and supporting information for samples submitted on March 10, 2015. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.


John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: Oneida Total Integrated Enterprises
ATTN: Ms. Keely Meadows
KMeadows@otie.com

Oneida Total Integrated Enterprises
ATTN: Mr. Sam Knotts
sknotts@otie.com



Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 105
Marietta, GA 30066

March 18, 2015
Control No. 188278
Page 2 of 29

SAMPLE INFORMATION

Project Description:

Sixteen (16) waste sample(s) received on March 10, 2015
P.O. No. 9908

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

Laboratory ID	Client Sample ID	Sampled Date/Time	Notes
188278-1	Building 246-1	10-Mar-2015 1205	
188278-2	Building 246-2	10-Mar-2015 1156	
188278-3	LRK-PRF-043	10-Mar-2015 1100	
188278-4	LRK-PRF-022	10-Mar-2015 1104	
188278-5	LRK-PRF-100	10-Mar-2015 1107	
188278-6	LRK-PRF-076	10-Mar-2015 1111	
188278-7	LRK-PRF-048	10-Mar-2015 1115	
188278-8	LRK-PRF-037	10-Mar-2015 1119	
188278-9	LRK-PRF-101	10-Mar-2015 1123	
188278-10	LRK-PRF-055	10-Mar-2015 1132	
188278-11	LRK-PRF-020	10-Mar-2015 1136	
188278-12	LRK-PRF-114	10-Mar-2015 1200	
188278-13	LRK-PRF-012	10-Mar-2015 1215	
188278-14	LRK-PRF-057	10-Mar-2015 1219	
188278-15	LRK-PRF-063	10-Mar-2015 1230	
188278-16	LRK-PRF-063A	10-Mar-2015 1230	

Qualifiers:

- D Result is from a secondary dilution factor
- J Result is less than the sample's quantitation limit but greater than MDL
- Q Analyte is not within quality control limits

Case Narrative:

For AIC No. 188278-12; The Volatile analytes are diluted due to internal standard failures. In order to meet the reporting limits for TCLP, these volatile analytes are reported to the limit of detection (LOD).

References:

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
"Standard Methods for the Examination of Water and Wastewaters", (SM).
"American Society for Testing and Materials" (ASTM).
"Association of Analytical Chemists" (AOAC).



Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

March 18, 2015
Control No. 188278
Page 4 of 29

ANALYTICAL RESULTS

AIC No. 188278-3

Sample Identification: LRK-PRF-043 10-Mar-2015 1100

Analyte	Result	RL	Units	Qualifier
TCLP: Solids	100	0.5	%	
EPA 1311	Analyzed: 11-Mar-2015 1756 by 313		Batch: S38433	
TCLP: Arsenic	< 0.3	0.3	mg/l	D
EPA 3010A, 6010C	Prep: 11-Mar-2015 1454 by 313	Analyzed: 11-Mar-2015 1730 by 315	Batch: S38453	Dil: 5
TCLP: Barium	2.4	0.01	mg/l	D
EPA 3010A, 6010C	Prep: 11-Mar-2015 1454 by 313	Analyzed: 11-Mar-2015 1730 by 315	Batch: S38453	Dil: 5
* TCLP: Cadmium 0006	11	0.02	mg/l	D
EPA 3010A, 6010C	Prep: 11-Mar-2015 1454 by 313	Analyzed: 11-Mar-2015 1730 by 315	Batch: S38453	Dil: 5
* TCLP: Chromium 0007	52	0.04	mg/l	D
EPA 3010A, 6010C	Prep: 11-Mar-2015 1454 by 313	Analyzed: 11-Mar-2015 1730 by 315	Batch: S38453	Dil: 5
TCLP: Lead	< 0.2	0.2	mg/l	D
EPA 3010A, 6010C	Prep: 11-Mar-2015 1454 by 313	Analyzed: 11-Mar-2015 1730 by 315	Batch: S38453	Dil: 5
TCLP: Selenium	< 0.4	0.4	mg/l	D
EPA 3010A, 6010C	Prep: 11-Mar-2015 1454 by 313	Analyzed: 11-Mar-2015 1730 by 315	Batch: S38453	Dil: 5
TCLP: Silver	< 0.04	0.04	mg/l	D
EPA 3010A, 6010C	Prep: 11-Mar-2015 1454 by 313	Analyzed: 11-Mar-2015 1730 by 315	Batch: S38453	Dil: 5
TCLP: Mercury	< 0.008	0.008	mg/l	D
EPA 7470A	Prep: 13-Mar-2015 1205 by 301	Analyzed: 13-Mar-2015 1809 by 301	Batch: S38475	Dil: 40
TCLP Volatile Organic Compounds By EPA 5030C, 8260C				
Benzene	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100
Carbon tetrachloride	< 0.20	0.20	mg/l	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100
Chlorobenzene	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100
Chloroform	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100
1,2-Dichloroethane	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100
1,1-Dichloroethylene	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100
Methyl ethyl ketone	< 1.0	1.0	mg/l	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100
Tetrachloroethylene	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100
Trichloroethylene	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100
Vinyl chloride	< 0.20	0.20	mg/l	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100
Surrogate: 4-Bromofluorobenzene (75.0-120%)	99.1		%	D
EPA 5030C, 8260C	Prep: 12-Mar-2015 0920 by 301	Analyzed: 12-Mar-2015 1207 by 301	Batch: V8702	Dil: 100



Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

March 18, 2015
Control No. 188278
Page 21 of 29

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
TCLP Volatile Organic Compounds								
Benzene	188278-3	< 0.50 mg/l			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	< 0.50 mg/l	0.00	30.0	12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
Carbon tetrachloride	188278-3	< 0.20 mg/l			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	< 0.20 mg/l	0.00	30.0	12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
Chlorobenzene	188278-3	< 0.50 mg/l			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	< 0.50 mg/l	0.00	30.0	12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
Chloroform	188278-3	< 0.50 mg/l			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	< 0.50 mg/l	0.00	30.0	12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
1,2-Dichloroethane	188278-3	< 0.50 mg/l			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	< 0.50 mg/l	0.00	30.0	12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
1,1-Dichloroethylene	188278-3	< 0.50 mg/l			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	< 0.50 mg/l	0.00	30.0	12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
Methyl ethyl ketone	188278-3	< 1.0 mg/l			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	< 1.0 mg/l	0.00	30.0	12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
Tetrachloroethylene	188278-3	< 0.50 mg/l			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	< 0.50 mg/l	0.00	30.0	12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
Trichloroethylene	188278-3	< 0.50 mg/l			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	< 0.50 mg/l	0.00	30.0	12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
Vinyl chloride	188278-3	< 0.20 mg/l			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	< 0.20 mg/l	0.00	30.0	12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
4-Bromofluorobenzene (75.0-120%)	188278-3	99.1 %			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	98.9 %			12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
Dibromofluoromethane (85.0-115%)	188278-3	93.1 %			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	93.0 %			12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
Toluene-D8 (85.0-120%)	188278-3	103 %			12Mar15 0920 by 301	12Mar15 1207 by 301	100	D
	Batch: V8702 Duplicate	103 %			12Mar15 0920 by 301	12Mar15 1245 by 301	100	D
Benzene	188278-10	< 0.50 mg/l			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
	Batch: V8704 Duplicate	< 0.50 mg/l	0.00	30.0	13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
Carbon tetrachloride	188278-10	< 0.20 mg/l			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
	Batch: V8704 Duplicate	< 0.20 mg/l	0.00	30.0	13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
Chlorobenzene	188278-10	< 0.50 mg/l			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
	Batch: V8704 Duplicate	< 0.50 mg/l	0.00	30.0	13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
Chloroform	188278-10	< 0.50 mg/l			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
	Batch: V8704 Duplicate	< 0.50 mg/l	0.00	30.0	13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
1,2-Dichloroethane	188278-10	< 0.50 mg/l			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
	Batch: V8704 Duplicate	< 0.50 mg/l	0.00	30.0	13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
1,1-Dichloroethylene	188278-10	< 0.50 mg/l			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
	Batch: V8704 Duplicate	< 0.50 mg/l	0.00	30.0	13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
Methyl ethyl ketone	188278-10	< 1.0 mg/l			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
	Batch: V8704 Duplicate	< 1.0 mg/l	0.00	30.0	13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
Tetrachloroethylene	188278-10	< 0.50 mg/l			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
	Batch: V8704 Duplicate	< 0.50 mg/l	0.00	30.0	13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
Trichloroethylene	188278-10	< 0.50 mg/l			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
	Batch: V8704 Duplicate	< 0.50 mg/l	0.00	30.0	13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
Vinyl chloride	188278-10	< 0.20 mg/l			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
	Batch: V8704 Duplicate	< 0.20 mg/l	0.00	30.0	13Mar15 0900 by 301	13Mar15 1735 by 301	100	D



Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

March 18, 2015
Control No. 188278
Page 22 of 29

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
4-Bromofluorobenzene (75.0-120%)	188278-10	101 %			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
Batch: V8704	Duplicate	100 %			13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
Dibromofluoromethane (85.0-115%)	188278-10	86.4 %			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
Batch: V8704	Duplicate	85.5 %			13Mar15 0900 by 301	13Mar15 1735 by 301	100	D
Toluene-D8 (85.0-120%)	188278-10	103 %			13Mar15 0900 by 301	13Mar15 1654 by 301	100	D
Batch: V8704	Duplicate	104 %			13Mar15 0900 by 301	13Mar15 1735 by 301	100	D



Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

March 18, 2015
Control No. 188278
Page 23 of 29

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	DII	Qual
TCLP: Arsenic	5 mg/l	102	85.0-115			S38453	11Mar15 1454 by 313	11Mar15 1712 by 315		
TCLP: Arsenic	5 mg/l	99.4	85.0-115			S38463	12Mar15 1400 by 313	13Mar15 0902 by 315		
TCLP: Arsenic	5 mg/l	97.2	85.0-115			S38477	13Mar15 1331 by 235	13Mar15 1548 by 315		
TCLP: Barium	0.5 mg/l	98.6	85.0-115			S38453	11Mar15 1454 by 313	11Mar15 1712 by 315		
TCLP: Barium	0.5 mg/l	97.6	85.0-115			S38463	12Mar15 1400 by 313	13Mar15 0902 by 315		
TCLP: Barium	0.5 mg/l	97.0	85.0-115			S38477	13Mar15 1331 by 235	13Mar15 1548 by 315		
TCLP: Cadmium	5 mg/l	99.6	85.0-115			S38453	11Mar15 1454 by 313	11Mar15 1712 by 315		
TCLP: Cadmium	5 mg/l	99.0	85.0-115			S38463	12Mar15 1400 by 313	13Mar15 0902 by 315		
TCLP: Cadmium	5 mg/l	98.8	85.0-115			S38477	13Mar15 1331 by 235	13Mar15 1548 by 315		
TCLP: Chromium	0.5 mg/l	100	85.0-115			S38453	11Mar15 1454 by 313	11Mar15 1712 by 315		
TCLP: Chromium	0.5 mg/l	97.6	85.0-115			S38463	12Mar15 1400 by 313	13Mar15 0902 by 315		
TCLP: Chromium	0.5 mg/l	95.5	85.0-115			S38477	13Mar15 1331 by 235	13Mar15 1548 by 315		
TCLP: Lead	5 mg/l	99.6	85.0-115			S38453	11Mar15 1454 by 313	11Mar15 1712 by 315		
TCLP: Lead	5 mg/l	101	85.0-115			S38463	12Mar15 1400 by 313	13Mar15 0902 by 315		
TCLP: Lead	5 mg/l	99.6	85.0-115			S38477	13Mar15 1331 by 235	13Mar15 1548 by 315		
TCLP: Selenium	5 mg/l	97.4	85.0-115			S38453	11Mar15 1454 by 313	11Mar15 1712 by 315		
TCLP: Selenium	5 mg/l	96.2	85.0-115			S38463	12Mar15 1400 by 313	13Mar15 0902 by 315		
TCLP: Selenium	5 mg/l	98.8	85.0-115			S38477	13Mar15 1331 by 235	13Mar15 1548 by 315		
TCLP: Silver	0.1 mg/l	101	85.0-115			S38453	11Mar15 1454 by 313	11Mar15 1712 by 315		
TCLP: Silver	0.1 mg/l	106	85.0-115			S38463	12Mar15 1400 by 313	13Mar15 0902 by 315		
TCLP: Silver	0.1 mg/l	107	85.0-115			S38477	13Mar15 1331 by 235	13Mar15 1548 by 315		
TCLP: Mercury	0.0025 mg/l	96.3	85.0-115			S38475	13Mar15 1206 by 301	13Mar15 1741 by 301		
TCLP Volatile Organic Compounds										
Benzene	20 ug/l	97.4	80.0-120			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
Benzene	20 ug/l	96.5	80.0-120			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
2-Butanone	40 ug/l	94.4	30.0-150			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
2-Butanone	40 ug/l	83.8	30.0-150			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
Carbon tetrachloride	20 ug/l	81.0	65.0-140			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
Carbon tetrachloride	20 ug/l	82.0	65.0-140			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
Chlorobenzene	20 ug/l	100	80.0-120			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
Chlorobenzene	20 ug/l	99.4	80.0-120			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
Chloroform	20 ug/l	97.6	65.0-135			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
Chloroform	20 ug/l	91.6	65.0-135			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
1,2-Dichloroethane	20 ug/l	101	70.0-130			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
1,2-Dichloroethane	20 ug/l	102	70.0-130			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
1,1-Dichloroethene	20 ug/l	92.0	70.0-130			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
1,1-Dichloroethene	20 ug/l	92.4	70.0-130			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
Tetrachloroethene	20 ug/l	93.4	45.0-150			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
Tetrachloroethene	20 ug/l	97.1	45.0-150			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
Trichloroethene	20 ug/l	97.6	70.0-125			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
Trichloroethene	20 ug/l	97.6	70.0-125			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		



Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

March 18, 2015
Control No. 188278
Page 24 of 29

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP Volatile Organic Compounds (Continued)										
Vinyl chloride	20 ug/l	94.3	50.0-145			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
Vinyl chloride	20 ug/l	96.6	50.0-145			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
TCLP Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50 ug/l	100	75.0-120			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
4-Bromofluorobenzene	50 ug/l	101	75.0-120			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
Dibromofluoromethane	50 ug/l	101	85.0-115			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
Dibromofluoromethane	50 ug/l	95.7	85.0-115			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		
Toluene-D8	50 ug/l	101	85.0-120			V8702	12Mar15 0920 by 301	12Mar15 0928 by 301		
Toluene-D8	50 ug/l	103	85.0-120			V8704	13Mar15 0900 by 301	13Mar15 0941 by 301		



Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

March 18, 2015
Control No. 188278
Page 25 of 29

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	DII	Qual
TCLP: Arsenic	188278-2	5 mg/l	105	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1716 by 315		
	188278-2	5 mg/l	102	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1721 by 315		
	Relative Percent Difference:		2.52	20.0	S38453				
TCLP: Arsenic	188278-6	5 mg/l	99.4	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0906 by 315		
	188278-6	5 mg/l	98.6	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0910 by 315		
	Relative Percent Difference:		0.808	20.0	S38463				
TCLP: Arsenic	188278-1	5 mg/l	91.6	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1550 by 315		
	188278-1	5 mg/l	88.4	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1554 by 315		
	Relative Percent Difference:		3.56	20.0	S38477				
TCLP: Barium	188278-2	0.5 mg/l	97.9	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1716 by 315		
	188278-2	0.5 mg/l	97.5	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1721 by 315		
	Relative Percent Difference:		0.406	20.0	S38453				
TCLP: Barium	188278-6	0.5 mg/l	94.3	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0906 by 315		
	188278-6	0.5 mg/l	93.3	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0910 by 315		
	Relative Percent Difference:		1.03	20.0	S38463				
TCLP: Barium	188278-1	0.5 mg/l	89.0	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1550 by 315		
	188278-1	0.5 mg/l	85.0	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1554 by 315		
	Relative Percent Difference:		4.15	20.0	S38477				
TCLP: Cadmium	188278-2	5 mg/l	99.2	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1716 by 315		
	188278-2	5 mg/l	97.2	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1721 by 315		
	Relative Percent Difference:		2.04	20.0	S38453				
TCLP: Cadmium	188278-6	5 mg/l	94.8	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0906 by 315		
	188278-6	5 mg/l	94.4	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0910 by 315		
	Relative Percent Difference:		0.421	20.0	S38463				
TCLP: Cadmium	188278-1	5 mg/l	89.8	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1550 by 315		
	188278-1	5 mg/l	88.4	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1554 by 315		
	Relative Percent Difference:		1.57	20.0	S38477				
TCLP: Chromium	188278-2	0.5 mg/l	99.8	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1716 by 315		
	188278-2	0.5 mg/l	97.4	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1721 by 315		
	Relative Percent Difference:		2.29	20.0	S38453				
TCLP: Chromium	188278-6	0.5 mg/l	92.4	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0906 by 315		
	188278-6	0.5 mg/l	91.8	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0910 by 315		
	Relative Percent Difference:		0.587	20.0	S38463				
TCLP: Chromium	188278-1	0.5 mg/l	86.2	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1550 by 315		
	188278-1	0.5 mg/l	83.0	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1554 by 315		
	Relative Percent Difference:		3.64	20.0	S38477				
TCLP: Lead	188278-2	5 mg/l	99.2	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1716 by 315		
	188278-2	5 mg/l	97.0	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1721 by 315		
	Relative Percent Difference:		2.24	20.0	S38453				
TCLP: Lead	188278-6	5 mg/l	94.6	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0906 by 315		
	188278-6	5 mg/l	94.2	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0910 by 315		
	Relative Percent Difference:		0.424	20.0	S38463				
TCLP: Lead	188278-1	5 mg/l	88.3	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1550 by 315		
	188278-1	5 mg/l	80.7	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1554 by 315		
	Relative Percent Difference:		8.98	20.0	S38477				
TCLP: Selenium	188278-2	5 mg/l	101	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1716 by 315		
	188278-2	5 mg/l	98.4	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1721 by 315		
	Relative Percent Difference:		3.00	20.0	S38453				
TCLP: Selenium	188278-6	5 mg/l	97.4	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0906 by 315		
	188278-6	5 mg/l	96.0	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0910 by 315		
	Relative Percent Difference:		1.45	20.0	S38463				



Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

March 18, 2015
Control No. 188278
Page 26 of 29

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	DII	Qual
TCLP: Selenium	188278-1	5 mg/l	98.8	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1550 by 315		
	188278-1	5 mg/l	99.0	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1554 by 315		
	Relative Percent Difference:		0.202	20.0	S38477				
TCLP: Silver	188278-2	0.1 mg/l	102	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1716 by 315		
	188278-2	0.1 mg/l	99.5	75.0-125	S38453	11Mar15 1454 by 313	11Mar15 1721 by 315		
	Relative Percent Difference:		2.48	20.0	S38453				
TCLP: Silver	188278-6	0.1 mg/l	103	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0906 by 315		
	188278-6	0.1 mg/l	102	75.0-125	S38463	12Mar15 1400 by 313	13Mar15 0910 by 315		
	Relative Percent Difference:		0.976	20.0	S38463				
TCLP: Silver	188278-1	0.1 mg/l	104	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1550 by 315		
	188278-1	0.1 mg/l	102	75.0-125	S38477	13Mar15 1331 by 235	13Mar15 1554 by 315		
	Relative Percent Difference:		1.94	20.0	S38477				
TCLP: Mercury	188278-9	0.0025 mg/l	95.6	70.0-130	S38475	13Mar15 1206 by 301	13Mar15 1745 by 301		
	188278-9	0.0025 mg/l	96.6	70.0-130	S38475	13Mar15 1206 by 301	13Mar15 1749 by 301		
	Relative Percent Difference:		0.999	20.0	S38475				
TCLP Volatile Organic Compounds									
Benzene	188278-3	20 ug/l	113	80.0-120	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
Benzene	188278-10	20 ug/l	92.6	80.0-120	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
2-Butanone	188278-3	40 ug/l	109	30.0-150	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
2-Butanone	188278-10	40 ug/l	99.5	30.0-150	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
Carbon tetrachloride	188278-3	20 ug/l	82.6	65.0-140	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
Carbon tetrachloride	188278-10	20 ug/l	81.0	65.0-140	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
Chlorobenzene	188278-3	20 ug/l	117	80.0-120	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
Chlorobenzene	188278-10	20 ug/l	93.1	80.0-120	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
Chloroform	188278-3	20 ug/l	113	65.0-135	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
Chloroform	188278-10	20 ug/l	88.4	65.0-135	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
1,2-Dichloroethane	188278-3	20 ug/l	119	70.0-130	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
1,2-Dichloroethane	188278-10	20 ug/l	96.0	70.0-130	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
1,1-Dichloroethene	188278-3	20 ug/l	112	70.0-130	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
1,1-Dichloroethene	188278-10	20 ug/l	99.7	70.0-130	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
Tetrachloroethene	188278-3	20 ug/l	114	45.0-150	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
Tetrachloroethene	188278-10	20 ug/l	100	45.0-150	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
Trichloroethene	188278-3	20 ug/l	112	70.0-125	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
Trichloroethene	188278-10	20 ug/l	96.0	70.0-125	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
Vinyl chloride	188278-3	20 ug/l	110	50.0-145	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
Vinyl chloride	188278-10	20 ug/l	109	50.0-145	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
TCLP Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	188278-3	50 ug/l	101	75.0-120	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
4-Bromofluorobenzene	188278-10	50 ug/l	100	75.0-120	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
Dibromofluoromethane	188278-3	50 ug/l	102	85.0-115	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
Dibromofluoromethane	188278-10	50 ug/l	95.4	85.0-115	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D
Toluene-D8	188278-3	50 ug/l	103	85.0-120	V8702	12Mar15 0920 by 301	12Mar15 1012 by 301	100	D
Toluene-D8	188278-10	50 ug/l	102	85.0-120	V8704	13Mar15 0900 by 301	13Mar15 1453 by 301	100	D



Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

March 18, 2015
Control No. 188278
Page 28 of 29

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
TCLP: Arsenic	< 0.05 mg/l	0.05	0.05	S38453-1	11Mar15 1454 by 313	11Mar15 1707 by 315	
TCLP: Barium	< 0.002 mg/l	0.002	0.002	S38453-1	11Mar15 1454 by 313	11Mar15 1707 by 315	
TCLP: Cadmium	< 0.004 mg/l	0.004	0.004	S38453-1	11Mar15 1454 by 313	11Mar15 1707 by 315	
TCLP: Chromium	< 0.007 mg/l	0.007	0.007	S38453-1	11Mar15 1454 by 313	11Mar15 1707 by 315	
TCLP: Lead	< 0.04 mg/l	0.04	0.04	S38453-1	11Mar15 1454 by 313	11Mar15 1707 by 315	
TCLP: Selenium	< 0.07 mg/l	0.07	0.07	S38453-1	11Mar15 1454 by 313	11Mar15 1707 by 315	
TCLP: Silver	< 0.007 mg/l	0.007	0.007	S38453-1	11Mar15 1454 by 313	11Mar15 1707 by 315	
TCLP: Arsenic	< 0.05 mg/l	0.05	0.05	S38463-1	12Mar15 1400 by 313	13Mar15 0858 by 315	
TCLP: Barium	< 0.002 mg/l	0.002	0.002	S38463-1	12Mar15 1400 by 313	13Mar15 0858 by 315	
TCLP: Cadmium	< 0.004 mg/l	0.004	0.004	S38463-1	12Mar15 1400 by 313	13Mar15 0858 by 315	
TCLP: Chromium	< 0.007 mg/l	0.007	0.007	S38463-1	12Mar15 1400 by 313	13Mar15 0858 by 315	
TCLP: Lead	< 0.04 mg/l	0.04	0.04	S38463-1	12Mar15 1400 by 313	13Mar15 0858 by 315	
TCLP: Selenium	< 0.07 mg/l	0.07	0.07	S38463-1	12Mar15 1400 by 313	13Mar15 0858 by 315	
TCLP: Silver	< 0.007 mg/l	0.007	0.007	S38463-1	12Mar15 1400 by 313	13Mar15 0858 by 315	
TCLP: Arsenic	< 0.05 mg/l	0.05	0.05	S38477-1	13Mar15 1331 by 235	13Mar15 1544 by 315	
TCLP: Barium	< 0.002 mg/l	0.002	0.002	S38477-1	13Mar15 1331 by 235	13Mar15 1544 by 315	
TCLP: Cadmium	< 0.004 mg/l	0.004	0.004	S38477-1	13Mar15 1331 by 235	13Mar15 1544 by 315	
TCLP: Chromium	< 0.007 mg/l	0.007	0.007	S38477-1	13Mar15 1331 by 235	13Mar15 1544 by 315	
TCLP: Lead	< 0.04 mg/l	0.04	0.04	S38477-1	13Mar15 1331 by 235	13Mar15 1544 by 315	
TCLP: Selenium	< 0.07 mg/l	0.07	0.07	S38477-1	13Mar15 1331 by 235	13Mar15 1544 by 315	
TCLP: Silver	< 0.007 mg/l	0.007	0.007	S38477-1	13Mar15 1331 by 235	13Mar15 1544 by 315	
TCLP: Mercury	< 0.0002 mg/l	0.0002	0.0002	S38475-1	13Mar15 1206 by 301	13Mar15 1730 by 301	
TCLP Volatile Organic Compounds							
Benzene	< 0.0050 mg/l	0.0050	0.0050	V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
2-Butanone	< 0.010 mg/l	0.010	0.010	V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
Carbon tetrachloride	< 0.0020 mg/l	0.0020	0.0020	V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
Chlorobenzene	< 0.0050 mg/l	0.0050	0.0050	V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
Chloroform	< 0.0050 mg/l	0.0050	0.0050	V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
1,2-Dichloroethane	< 0.0050 mg/l	0.0050	0.0050	V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
1,1-Dichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
Tetrachloroethene	< 0.0050 mg/l	0.0050	0.0050	V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
Trichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
Vinyl chloride	< 0.0020 mg/l	0.0020	0.0020	V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
TCLP Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	98.2 %			V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
Dibromofluoromethane (85.0-115%)	93.5 %			V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
Toluene-D8 (85.0-120%)	102 %			V8702-1	12Mar15 0920 by 301	12Mar15 1128 by 301	
TCLP Volatile Organic Compounds							
Benzene	< 0.00012 mg/l	0.00012	0.0050	V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	
2-Butanone	< 0.00063 mg/l	0.00063	0.010	V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	
Carbon tetrachloride	< 0.00021 mg/l	0.00021	0.0020	V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	
Chlorobenzene	< 0.00011 mg/l	0.00011	0.0050	V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	
Chloroform	< 0.00016 mg/l	0.00016	0.0050	V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	
1,2-Dichloroethane	< 0.00021 mg/l	0.00021	0.0050	V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	
1,1-Dichloroethene	< 0.00024 mg/l	0.00024	0.0050	V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	
Tetrachloroethene	< 0.00018 mg/l	0.00018	0.0050	V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	
Trichloroethene	< 0.00022 mg/l	0.00022	0.0050	V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	
Vinyl chloride	< 0.00047 mg/l	0.00047	0.0020	V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	
TCLP Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	98.6 %			V8704-1	13Mar15 0900 by 301	13Mar15 1813 by 301	



Oneida Total Integrated Enterprises
 1220 Kennestone Circle, Suite 106
 Marietta, GA 30066

March 18, 2015
 Control No. 188278
 Page 29 of 29

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
TCLP Volatile Organic Compounds							
TCLP Volatile Organic Compounds Surrogates:							
Dibromofluoromethane (85.0-115%)	87.9 %			V8704-1	13Mar15 0900 by 301	13Mar15 1613 by 301	
Toluene-D8 (85.0-120%)	102 %			V8704-1	13Mar15 0900 by 301	13Mar15 1613 by 301	

Client: <u>Overida</u>		PO No.		ANALYSES REQUESTED		PAGE 1 OF 1	
Project Reference:		AIC CONTROL NO: <u>188278</u>		AIC PROPOSAL NO:			
Project Manager:		Carrier:		Received Temperature C			
Sampled By:		Received Temperature C		Remarks			
AIC No.		Date/Time Collected		Sample Identification		Remarks	
1		3-10-13		R. 10-13 246-1			
2		3-10-13		Build-up 246-2			
3		3-10-13		LRK-PRE-043			
4		3-10-13		LRK-PRE-032			
5		3-10-13		LRK-PRE-100			
6		3-10-13		LRK-PRE-076			
7		3-10-13		LRK-PRE-048			
Container Type		Preservative		G = Glass NO = none		Field pH calibration on _____ @ _____	
Matrix		G R A B		C O M P		W A T T E R	
1		X		X		X	
2		X		X		X	
3		X		X		X	
4		X		X		X	
5		X		X		X	
6		X		X		X	
7		X		X		X	
Turnaround Time Requested: (Please circle) NORMAL or EXPEDITED IN _____ DAYS		Expedited results requested by:		Who should AIC contact with questions:		Phone: _____ Fax: _____	
Report Attention to:		Report Address to:		Email Address:		Tech. Time = 3.5 Hours	

PAGE 1 OF 1

Client: <u>Onida</u>		PO No.	ANALYSES REQUESTED										NO OF	AC CONTROL NO: <u>18278</u>			
Project Reference:		MATRIX											BOTTLES	AC PROPOSAL NO:			
Project														Carrier:			
Manager:		G R A B	C O M P	W A T E R											Received Temperature C <u>24</u>	Remarks	
Sampled																	
By:	A/C	Sample Identification	Date/Time Collected											Field pH calibration on _____ @ _____			
	8	LAK-PRF-037	3-10-15 1119	X													
	9	LAK-PRF-101	3-10-15 1133	X													
	10	LAK-PRF-055	3-10-15 1132	X													
	11	LAK-PRF-020	3-10-15 1131	X													
	12	LAK-PRF-114	3-10-15 1203	X													
	13	LAK-PRF-012	3-10-15 1215	X													
	14	LAK-PRF-057	3-10-15 1219	X													
			Container Type														
			Preservative														
			G = Glass NO = none														
			P = Phatic S = Sulfuric acid pH2														
			V = VOA vials N = Nitric acid pH2														
			H = HCl to pH2 B = NaOH to pH12														
			T = Sodium Thiosulfate Z = Zinc acetate														
			Buffer:														
Turnaround Time Requested: (Please circle) NORMAL or EXPEDITED IN _____ DAYS			Relinquished By: <u>Tom Hoptis</u>	Date/Time Relinquished: <u>3-10-15</u>	Received By: <u>Be...</u>	Date/Time Received: <u>1340</u>	A = (NH ₄) ₂ SO ₄ , NH ₄ OH										
Who should A/C contact with questions: Phone: _____ Fax: _____			Relinquished By: <u>Be...</u>	Date/Time Relinquished: <u>1340</u>	Received in Lab By: <u>Be...</u>	Date/Time Received: <u>1340</u>	A = (NH ₄) ₂ SO ₄ , NH ₄ OH										
Report Attention to: Report Address to:			Comments:														
Email Address:																	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

PAGE 1 OF 1

Client: <u>Orinda</u>		AIC CONTROL NO: <u>88178</u>	
Project Reference:		AIC PROPOSAL NO:	
Project Manager:		Carrier:	
Sampled By:		Received Temperature C: <u>24</u>	
AIC Sample Identification No.		Remarks:	
15 LRK-PRF-063			
16 LRK-PRF-063A			

NO OF BOTTLES	MATRIX	ANALYSES REQUESTED										Field pH calibration on	Buffer:				
		W	A	S	O	I	L	G	R	A	B			C	Y	Z	
1	WATER																
1	SOIL																
1	COMPOST																
1	GRAVEL																
1	CLAY																
1	SLUDGE																
1	SEDIMENT																
1	ROCK																
1	GLASS																
1	PLASTIC																
1	OTHER																

Turnaround Time Requested: (Please circle)
NORMAL or EXPEDITED IN _____ DAYS

Expedited results requested by: _____

Who should AIC contact with questions: _____

Phone: _____ Fax: _____

Report Attention to: _____

Report Address to: _____

Email Address: _____

92014

FORM 0080

Appendix 10
Hazardous Waste Profile Sheet
LRK-PRF-008

HAZARDOUS WASTE PROFILE SHEET			
NOTE: Explosives, Shock Sensitive, Pyrophoric, Radioactive, and Etiological Waste are not normally accepted by the DRMO. Contact your DRMO for further guidance if your waste meets any of these categories.			
Part I			
A. GENERAL INFORMATION			WASTE PROFILE NO.
1. GENERATORS NAME LITTLE ROCK AFB			LRK-PRF-008 v3
2. FACILITY ADDRESS		3. ZIP CODE	4. GENERATOR USEPA ID
8628 THOMAS AVE		72099	AR6571824808
LITTLE ROCK AR United States			5. GENERATOR STATE ID
ORGANIZATION NAME		SHOP NAME	OFFICE SYMBOL
AFRC		CRF	MXMX
6. TECHNICAL CONTACT		7. TITLE	8. PHONE
ELIZABETH GAMBER		Environmental Contact	(501) 987-6800
B. WASTE INFORMATION			
1. NAME OF WASTE: HAZARDOUS WASTE, SOLID, N.O.S. (CADMIUM)			
2A. USEPA WASTE CODE			
D006			
2B. STATE/LOCAL/HOST-NATION WASTE CODES			
3. PROCESS GENERATING WASTE			
4. PROJECTED ANNUAL VOL		5. MODE OF COLLECTION DRUM	
6. IS THIS WASTE A DIOXIN LISTED WASTE AS DEFINED IN CFR 261.31? ☐ YES ☒ NO			
7. IS THIS WASTE RESTRICTED FROM LAND DISPOSAL? (40 CFR 269) ☒ YES ☐ NO			
HAS AN EXEMPTION BEEN GRANTED? ☐ YES ☒ NO			
DOES THE WASTE MEET APPLICABLE TREATMENT STANDARDS ALREADY? ☒ YES ☐ NO			
(If yes, Enter Reference Standards in Part 3, Block 6)			
Part II			
1. MATERIAL CHARACTERIZATION (Optional - Not Required Data)			
COLOR:		DENSITY:	BTU/LB:
TOTAL SOLIDS:		ASH CONTENT:	
LAYERING ☐ MULTILAYERED ☐ BILAYERED ☐ SINGLE			
2. RCRA CHARACTERISTICS			
PHYSICAL STATE ☒ SOLID ☐ LIQUID ☐ SEMI-SOLID ☐ GAS ☐ OTHER			
OTHER CHARACTERISTICS			
☐ IGNITABLE ☐ CORROSIVE (D002) ☐ REACTIVE (D003) ☐ WATER REACTIVE ☐ CYANIDE REACTIVE ☐ SULFIDE REACTIVE			
Flash Point: _____ ph: _____			
☐ HIGH TOC ($\geq 10\%$) ☐ LOW TOC ($<10\%$) TREATMENT GROUP: ☐ WASTEWATER ☒ NON-WASTEWATER			

HAZARDOUS WASTE PROFILE SHEET (Continued)			WASTE PROFILE NO. LRK-PRF-008 v3	
3. CHEMICAL/MATERIAL COMPOSITION List all components and contaminants, including PCB's, and any applicable F-Listed and underlying Hazardous Constituents.				
CAS #	COMPONENT (Be as descriptive as possible. Chemical names, as well as generic descriptions, e.g., 'sludge', 'paint solids', 'water' etc. are acceptable)	CONCENTRATION	RANGE	
	PARTS WASHER FILTERS	= 100 %	100.0 % to 100.0 %	
RANGE TOTAL MUST EQUAL AT LEAST 100%				
3. MATERIAL COMPOSITION / UNDERLYING HAZARDOUS CONSTITUENTS				
CAS #	COMPONENT (Be as descriptive as possible. Chemical names, as well as generic descriptions, e.g., 'sludge', 'paint solids', 'water' etc. are acceptable)	CONCENTRATION	RANGE	
RANGE TOTAL MUST EQUAL AT LEAST 100%				

HAZARDOUS WASTE PROFILE SHEET (Continued)		WASTE PROFILE NO. LRK-PRF-008 v3
4. SHIPPING INFORMATION		
DOT HAZARDOUS MATERIAL? ☒ YES ☐ NO		
PROPER SHIPPING NAME Hazardous waste, solid, n.o.s.		
HAZARD CLASS 9	U.N. or N.A. NO. NA3077	PACKING GROUP III
ADDITIONAL DESCRIPTION HAZARDOUS WASTE, SOLID, N.O.S. (CADMIUM)		
METHOD OF SHIPMENT ☐ BULK ☒ DRUM ☐ OTHER		
EMERGENCY RESPONSE GUIDE EDITION (YR) 2012		EMERGENCY RESPONSE NUMBER 171
5. SPECIAL HANDLING INFORMATION		
6. GENERATOR CERTIFICATION		
☒ CHEMICAL ANALYSIS (ATTACH TEST RESULTS) ☐ USER KNOWLEDGE (ATTACH SUPPORTING DOCUMENTS)		
EXPLAIN HOW AND WHY THESE DOCUMENTS COMPLY WITH RCRA REQUIREMENTS		
CERTIFICATION		
I, <u>Elizabeth Gamber</u> HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS TO THE BEST OF MY KNOWLEDGE AN ACCURATE REPRESENTATION OF THE WASTE TURNED IN TO THE DRMO. ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.		
GAMBER.ELIZABETH.K.1511 385322		Digitally signed by GAMBER.ELIZABETH.K.1511385322 DN: cn=GAMBER.ELIZABETH.K.1511385322, email=GAMBER.ELIZABETH.K.1511385322, c=US
Signature of Generator's Representative		19 Jan 2017 Date



Oneida Total Integrated Enterprises
ATTN: Ms. Keely Meadows
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

Lrk-PLF-008

ERRC

Parts Washer Filter

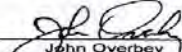
April 20, 2015
Control No. 159360
Page 1 of 25

(D006)

This report contains the analytical results and supporting information for samples submitted on April 9, 2015. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.


John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: Oneida Total Integrated Enterprises
ATTN: Ms. Keely Meadows
KMeadows@otie.com

Oneida Total Integrated Enterprises
ATTN: Mr. Sam Knotts
sknotts@otie.com



Oncoida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

April 20, 2015
Control No. 189360
Page 2 of 25

SAMPLE INFORMATION

Project Description:

Seven (7) liquid and six (6) solid sample(s) received on April 9, 2015
P.O. No. 9908

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

Laboratory ID	Client Sample ID	Sampled Date/Time	Notes
189360-1	LRK-PRS-008	09-Apr-2015 1009	
189360-2	LRK-PRS-065	09-Apr-2015 1012	
189360-3	LRK-PRS-071	09-Apr-2015 1015	
189360-4	LRK-PRS-094	09-Apr-2015 1018	
189360-5	LRK-PRS-052	09-Apr-2015 1023	
189360-6	LRK-PRS-041	09-Apr-2015 1026	
189360-7	LRK-PRS-050	09-Apr-2015 1033	
189360-8	LRK-PRS-051	09-Apr-2015 1038	
189360-9	LRK-PRS-032	09-Apr-2015 1058	
189360-10	1570-01	09-Apr-2015 1042	
189360-11	LRK-PRS-018	09-Apr-2015 1110	
189360-12	LRK-PRS-059	09-Apr-2015 1114	
189360-13	LRK-PRS-075	09-Apr-2015 1126	

Qualifiers:

D Result is from a secondary dilution factor

References:

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements
EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW848)", Third Edition.
"Standard Methods for the Examination of Water and Wastewaters", (SM).
"American Society for Testing and Materials" (ASTM).
"Association of Analytical Chemists" (AOAC).



April 20, 2016
Control No. 189360
Page 3 of 25

ANALYTICAL RESULTS

AIC No. 189360-1

Sample Identification: LRK-PRS-008 09-Apr-2015 1009

Analyte	Result	RL	Units	Qualifier
TCLP: Solids EPA 1311	100 Analyzed: 09-Apr-2015 1915 by 313	0.5	% Batch: S38659	
TCLP: Arsenic EPA 3010A, 6010C	< 0.3 Analyzed: 14-Apr-2015 2126 by 302	0.3	mg/l Batch: S38691	D Dil: 5
TCLP: Barium EPA 3010A, 6010C	2.0 Analyzed: 14-Apr-2015 2126 by 302	0.01	mg/l Batch: S38691	D Dil: 5
TCLP: Cadmium EPA 3010A, 6010C	0.6 Analyzed: 14-Apr-2015 2126 by 302	0.02	mg/l Batch: S38691	D Dil: 5
TCLP: Chromium EPA 3010A, 6010C	< 0.04 Analyzed: 14-Apr-2015 2126 by 302	0.04	mg/l Batch: S38691	D Dil: 5
TCLP: Lead EPA 3010A, 6010C	< 0.2 Analyzed: 14-Apr-2015 2126 by 302	0.2	mg/l Batch: S38691	D Dil: 5
TCLP: Selenium EPA 3010A, 6010C	< 0.4 Analyzed: 14-Apr-2015 2126 by 302	0.4	mg/l Batch: S38691	D Dil: 5
TCLP: Silver EPA 3010A, 6010C	< 0.04 Analyzed: 14-Apr-2015 2126 by 302	0.04	mg/l Batch: S38691	D Dil: 5
TCLP: Mercury EPA 7470A	< 0.008 Analyzed: 13-Apr-2015 1141 by 302	0.008	mg/l Batch: S38693	D Dil: 40
TCLP Volatile Organic Compounds By EPA 5030C, 8260C				
Benzene EPA 5030C, 8260C	< 0.50 Analyzed: 10-Apr-2015 2343 by 301	0.50	mg/l Batch: V8728	D Dil: 100
Carbon tetrachloride EPA 5030C, 8260C	< 0.20 Analyzed: 10-Apr-2015 2343 by 301	0.20	mg/l Batch: V8728	D Dil: 100
Chlorobenzene EPA 5030C, 8260C	< 0.50 Analyzed: 10-Apr-2015 2343 by 301	0.50	mg/l Batch: V8728	D Dil: 100
Chloroform EPA 5030C, 8260C	< 0.50 Analyzed: 10-Apr-2015 2343 by 301	0.50	mg/l Batch: V8728	D Dil: 100
1,2-Dichloroethane EPA 5030C, 8260C	< 0.50 Analyzed: 10-Apr-2015 2343 by 301	0.50	mg/l Batch: V8728	D Dil: 100
1,1-Dichloroethylene EPA 5030C, 8260C	< 0.50 Analyzed: 10-Apr-2015 2343 by 301	0.50	mg/l Batch: V8728	D Dil: 100
Methyl ethyl ketone EPA 5030C, 8260C	< 1.0 Analyzed: 10-Apr-2015 2343 by 301	1.0	mg/l Batch: V8728	D Dil: 100
Tetrachloroethylene EPA 5030C, 8260C	< 0.50 Analyzed: 10-Apr-2015 2343 by 301	0.50	mg/l Batch: V8728	D Dil: 100
Trichloroethylene EPA 5030C, 8260C	< 0.50 Analyzed: 10-Apr-2015 2343 by 301	0.50	mg/l Batch: V8728	D Dil: 100
Vinyl chloride EPA 5030C, 8260C	< 0.20 Analyzed: 10-Apr-2015 2343 by 301	0.20	mg/l Batch: V8728	D Dil: 100
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 5030C, 8260C	89.8 Analyzed: 10-Apr-2015 2343 by 301		% Batch: V8728	D Dil: 100



April 20, 2015
Control No. 189360
Page 4 of 25

ANALYTICAL RESULTS

AIC No. 189360-1 (Continued)
Sample Identification: LRK-PRS-008 09-Apr-2015 1009

Analyte	Result	RL	Units	Qualifier
TCLP Volatile Organic Compounds By EPA 5030C, 8260C (Continued)				
Surrogate: Dibromofluoromethane (85.0-115%)	103		%	D
EPA 5030C, 8260C	Prep: 10-Apr-2015 1416 by 301	Analyzed: 10-Apr-2015 2343 by 301	Batch: V8728	Dil: 100
Surrogate: Toluene-D8 (85.0-120%)	96.8		%	D
EPA 5030C, 8260C	Prep: 10-Apr-2015 1416 by 301	Analyzed: 10-Apr-2015 2343 by 301	Batch: V8728	Dil: 100

AIC No. 189360-2
Sample Identification: LRK-PRS-065 09-Apr-2015 1012

Analyte	Result	RL	Units	Qualifier
Ignitability				
EPA 1010	>212		deg.F	
	Analyzed: 14-Apr-2015 1053 by 07		Batch: C17625	
TCLP: Solids				
EPA 1311	0.95	0.5	%	
	Analyzed: 09-Apr-2015 1915 by 313		Batch: S38659	
TCLP: Arsenic				
EPA 3010A, 6010C	< 0.3	0.3	mg/l	D
	Prep: 10-Apr-2015 1506 by 313	Analyzed: 14-Apr-2015 2143 by 302	Batch: S38691	Dil: 5
TCLP: Barium				
EPA 3010A, 6010C	0.47	0.01	mg/l	D
	Prep: 10-Apr-2015 1506 by 313	Analyzed: 14-Apr-2015 2143 by 302	Batch: S38691	Dil: 5
TCLP: Cadmium				
EPA 3010A, 6010C	7.4	0.02	mg/l	D
	Prep: 10-Apr-2015 1506 by 313	Analyzed: 14-Apr-2015 2143 by 302	Batch: S38691	Dil: 5
TCLP: Chromium				
EPA 3010A, 6010C	1.2	0.04	mg/l	D
	Prep: 10-Apr-2015 1506 by 313	Analyzed: 14-Apr-2015 2143 by 302	Batch: S38691	Dil: 5
TCLP: Lead				
EPA 3010A, 6010C	0.27	0.2	mg/l	D
	Prep: 10-Apr-2015 1506 by 313	Analyzed: 14-Apr-2015 2143 by 302	Batch: S38691	Dil: 5
TCLP: Selenium				
EPA 3010A, 6010C	< 0.4	0.4	mg/l	D
	Prep: 10-Apr-2015 1506 by 313	Analyzed: 14-Apr-2015 2143 by 302	Batch: S38691	Dil: 5
TCLP: Silver				
EPA 3010A, 6010C	< 0.04	0.04	mg/l	D
	Prep: 10-Apr-2015 1506 by 313	Analyzed: 14-Apr-2015 2143 by 302	Batch: S38691	Dil: 5
TCLP: Mercury				
EPA 7470A	< 0.008	0.008	mg/l	D
	Prep: 13-Apr-2015 0740 by 302	Analyzed: 13-Apr-2015 1146 by 302	Batch: S38693	Dil: 40
TCLP Volatile Organic Compounds By EPA 5030C, 8260C				
Benzene	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 14-Apr-2015 1000 by 301	Analyzed: 15-Apr-2015 0346 by 301	Batch: V8732	Dil: 100
Carbon tetrachloride	< 0.20	0.20	mg/l	D
EPA 5030C, 8260C	Prep: 14-Apr-2015 1000 by 301	Analyzed: 15-Apr-2015 0346 by 301	Batch: V8732	Dil: 100
Chlorobenzene	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 14-Apr-2015 1000 by 301	Analyzed: 15-Apr-2015 0346 by 301	Batch: V8732	Dil: 100
Chloroform	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 14-Apr-2015 1000 by 301	Analyzed: 15-Apr-2015 0346 by 301	Batch: V8732	Dil: 100
1,2-Dichloroethane	< 0.50	0.50	mg/l	D
EPA 5030C, 8260C	Prep: 14-Apr-2015 1000 by 301	Analyzed: 15-Apr-2015 0346 by 301	Batch: V8732	Dil: 100



April 20, 2015
Control No. 189360
Page 20 of 25

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Ignitability	Batch: C17626	189360-7 Duplicate	79.0 deg.F 77.0 deg.F	2.56	20.0	14Apr15 1055 by 301 14Apr15 1053 by 07		
Volatile Organic Compounds								
Benzene	Batch: V8728	189375-2 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
2-Butanone	Batch: V8728	189375-2 Duplicate	< 10 ug/l < 10 ug/l	0.00	30.0	10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
Carbon tetrachloride	Batch: V8728	189375-2 Duplicate	< 2.0 ug/l < 2.0 ug/l	0.00	30.0	10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
Chlorobenzene	Batch: V8728	189375-2 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
Chloroform	Batch: V8728	189375-2 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
1,2-Dichloroethane	Batch: V8728	189375-2 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
1,1-Dichloroethylene	Batch: V8728	189375-2 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
Tetrachloroethylene	Batch: V8728	189375-2 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
Trichloroethylene	Batch: V8728	189375-2 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
Vinyl chloride	Batch: V8728	189375-2 Duplicate	< 2.0 ug/l < 2.0 ug/l	0.00	30.0	10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
4-Bromofluorobenzene (75.0-120%)	Batch: V8728	189375-2 Duplicate	89.5 % 89.9 %			10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
Dibromofluoromethane (85.0-115%)	Batch: V8728	189375-2 Duplicate	103 % 107 %			10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
Toluene-D8 (85.0-120%)	Batch: V8728	189375-2 Duplicate	93.7 % 92.5 %			10Apr15 1000 by 301 10Apr15 1000 by 301	10Apr15 1512 by 301 10Apr15 1548 by 301	
Volatile Organic Compounds								
Benzene	Batch: V8732	189399-1 Duplicate	7.1 ug/l 8.9 ug/l	2.43	30.0	14Apr15 1000 by 301 14Apr15 1000 by 301	14Apr15 1834 by 301 14Apr15 1911 by 301	
2-Butanone	Batch: V8732	189399-1 Duplicate	< 10 ug/l < 10 ug/l	0.00	30.0	14Apr15 1000 by 301 14Apr15 1000 by 301	14Apr15 1834 by 301 14Apr15 1911 by 301	
Carbon tetrachloride	Batch: V8732	189399-1 Duplicate	< 2.0 ug/l < 2.0 ug/l	0.00	30.0	14Apr15 1000 by 301 14Apr15 1000 by 301	14Apr15 1834 by 301 14Apr15 1911 by 301	
Chlorobenzene	Batch: V8732	189399-1 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	14Apr15 1000 by 301 14Apr15 1000 by 301	14Apr15 1834 by 301 14Apr15 1911 by 301	
Chloroform	Batch: V8732	189399-1 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	14Apr15 1000 by 301 14Apr15 1000 by 301	14Apr15 1834 by 301 14Apr15 1911 by 301	
1,2-Dichloroethane	Batch: V8732	189399-1 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	14Apr15 1000 by 301 14Apr15 1000 by 301	14Apr15 1834 by 301 14Apr15 1911 by 301	
1,1-Dichloroethylene	Batch: V8732	189399-1 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	14Apr15 1000 by 301 14Apr15 1000 by 301	14Apr15 1834 by 301 14Apr15 1911 by 301	
Tetrachloroethene	Batch: V8732	189399-1 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	14Apr15 1000 by 301 14Apr15 1000 by 301	14Apr15 1834 by 301 14Apr15 1911 by 301	
Trichloroethene	Batch: V8732	189399-1 Duplicate	< 5.0 ug/l < 5.0 ug/l	0.00	30.0	14Apr15 1000 by 301 14Apr15 1000 by 301	14Apr15 1834 by 301 14Apr15 1911 by 301	

8800 Kanis Road • Little Rock, AR 72204

www.AmericanInterplex.com

Phone 501-224-5080 • FAX 501-224-5072



April 20, 2015
Control No. 189360
Page 21 of 25

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)								
Vinyl chloride	189399-1	< 2.0 ug/l			14Apr15 1000 by 301	14Apr15 1834 by 301		
	Batch: V8732 Duplicate	< 2.0 ug/l	0.00	30.0	14Apr15 1000 by 301	14Apr15 1911 by 301		
4-Bromofluorobenzene (75.0-120%)	189399-1	90.1 %			14Apr15 1000 by 301	14Apr15 1834 by 301		
	Batch: V8732 Duplicate	87.9 %			14Apr15 1000 by 301	14Apr15 1911 by 301		
Dibromofluoromethane (55.0-115%)	189399-1	93.6 %			14Apr15 1000 by 301	14Apr15 1834 by 301		
	Batch: V8732 Duplicate	99.6 %			14Apr15 1000 by 301	14Apr15 1911 by 301		
Toluene-DB (85.0-120%)	189399-1	99.0 %			14Apr15 1000 by 301	14Apr15 1834 by 301		
	Batch: V8732 Duplicate	98.2 %			14Apr15 1000 by 301	14Apr15 1911 by 301		



Oneida Total Integrated Enterprises
1220 Kennestone Circle, Suite 106
Marietta, GA 30066

April 20, 2015
Control No. 189360
Page 22 of 25

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limit	RPD	Limit	Batch	Preparation Date	Analysis Date	DII	Qual
Ignitability	1.00 deg.I	102	97.3-105			C17625		14Apr15 1053 by 301		
TCLP: Arsenic	5 mg/l	96.9	85.0-115			S38691	10Apr15 1506 by 313	14Apr15 2114 by 302		
TCLP: Barium	0.5 mg/l	97.2	85.0-115			S38691	10Apr15 1506 by 313	14Apr15 2114 by 302		
TCLP: Cadmium	5 mg/l	93.7	85.0-115			S38691	10Apr15 1506 by 313	14Apr15 2114 by 302		
TCLP: Chromium	0.5 mg/l	84.2	85.0-115			S38691	10Apr15 1506 by 313	14Apr15 2114 by 302		
TCLP: Lead	5 mg/l	90.8	85.0-115			S38691	10Apr15 1506 by 313	14Apr15 2114 by 302		
TCLP: Selenium	5 mg/l	91.9	85.0-115			S38691	10Apr15 1506 by 313	14Apr15 2114 by 302		
TCLP: Silver	0.1 mg/l	98.2	85.0-115			S38691	10Apr15 1506 by 313	14Apr15 2114 by 302		
TCLP: Mercury	0.0025 mg/l	90.1	85.0-115			S38693	13Apr15 0740 by 302	13Apr15 1128 by 302		
TCLP Volatile Organic Compounds										
Benzene	20 ug/l	81.4	80.0-120			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
Benzene	20 ug/l	106	80.0-120			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
2-Butanone	40 ug/l	101	30.0-150			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
2-Butanone	40 ug/l	112	30.0-150			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
Carbon tetrachloride	20 ug/l	90.6	65.0-140			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
Carbon tetrachloride	20 ug/l	88.4	65.0-140			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
Chlorobenzene	20 ug/l	81.6	80.0-120			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
Chlorobenzene	20 ug/l	102	80.0-120			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
Chloroform	20 ug/l	89.4	65.0-135			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
Chloroform	20 ug/l	105	65.0-135			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
1,2-Dichloroethane	20 ug/l	84.9	70.0-130			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
1,2-Dichloroethane	20 ug/l	109	70.0-130			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
1,1-Dichloroethene	20 ug/l	84.0	70.0-130			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
1,1-Dichloroethene	20 ug/l	87.8	70.0-130			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
Tetrachloroethene	20 ug/l	81.2	45.0-150			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
Tetrachloroethene	20 ug/l	92.6	45.0-150			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
Trichloroethene	20 ug/l	96.1	70.0-125			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
Trichloroethene	20 ug/l	95.6	70.0-125			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
Vinyl chloride	20 ug/l	83.0	50.0-145			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
Vinyl chloride	20 ug/l	99.4	50.0-145			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
TCLP Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50 ug/l	93.4	75.0-120			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
4-Bromofluorobenzene	50 ug/l	97.7	75.0-120			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
Dibromofluoromethane	50 ug/l	112	85.0-115			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
Dibromofluoromethane	50 ug/l	101	85.0-115			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		
Toluene-D8	50 ug/l	95.4	85.0-120			V8728	10Apr15 1000 by 301	10Apr15 1017 by 301		
Toluene-D8	50 ug/l	100	85.0-120			V8732	14Apr15 1000 by 301	14Apr15 1001 by 301		



April 20, 2015
Control No. 189360
Page 23 of 25

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dif	Qual
TCLP: Arsenic	189360-1	5 mg/l	98.5	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2118 by 302	5	D
	189360-1	5 mg/l	99.9	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2122 by 302	5	D
	Relative Percent Difference:		1.41	20.0	S38691				
	189360-1	0.5 mg/l	104	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2118 by 302	8	D
TCLP: Barium	189360-1	0.5 mg/l	99.4	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2122 by 302	8	D
	Relative Percent Difference:		2.31	20.0	S38691				
	189360-1	5 mg/l	94.5	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2118 by 302	5	D
	189360-1	5 mg/l	93.0	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2122 by 302	5	D
TCLP: Cadmium	Relative Percent Difference:		1.46	20.0	S38691				
	189360-1	0.5 mg/l	93.9	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2118 by 302	5	D
	189360-1	0.5 mg/l	95.2	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2122 by 302	5	D
	Relative Percent Difference:		1.37	20.0	S38691				
TCLP: Chromium	189360-1	5 mg/l	89.5	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2118 by 302	5	D
	189360-1	5 mg/l	91.1	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2122 by 302	5	D
	Relative Percent Difference:		1.51	20.0	S38691				
	189360-1	5 mg/l	94.0	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2118 by 302	5	D
TCLP: Lead	189360-1	5 mg/l	89.5	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2122 by 302	5	D
	Relative Percent Difference:		1.90	20.0	S38691				
	189360-1	0.1 mg/l	99.2	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2118 by 302	5	D
	189360-1	0.1 mg/l	98.3	75.0-125	S38691	10Apr15 1506 by 313	14Apr15 2122 by 302	5	D
TCLP: Selenium	Relative Percent Difference:		0.897	20.0	S38691				
	189360-1	0.0025 mg/l	93.2	70.0-130	S38693	13Apr15 0740 by 302	13Apr15 1130 by 302	40	D
	189360-1	0.0025 mg/l	92.8	70.0-130	S38693	13Apr15 0740 by 302	13Apr15 1134 by 302	40	D
	Relative Percent Difference:		0.344	20.0	S38693				
TCLP Volatile Organic Compounds									
Benzene	189375-2	20 ug/l	111	80.0-120	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
Benzene	189399-1	20 ug/l	82.4	80.0-120	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
2-Butanone	189375-2	40 ug/l	84.4	30.0-150	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
2-Butanone	189399-1	40 ug/l	91.4	30.0-150	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
Carbon tetrachloride	189375-2	20 ug/l	114	65.0-140	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
Carbon tetrachloride	189399-1	20 ug/l	84.7	65.0-140	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
Chlorobenzene	189375-2	20 ug/l	106	80.0-120	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
Chlorobenzene	189399-1	20 ug/l	93.2	80.0-120	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
Chloroform	189375-2	20 ug/l	117	65.0-135	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
Chloroform	189399-1	20 ug/l	97.8	65.0-135	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
1,2-Dichloroethane	189375-2	20 ug/l	102	70.0-130	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
1,2-Dichloroethane	189399-1	20 ug/l	100	70.0-130	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
1,1-Dichloroethane	189375-2	20 ug/l	122	70.0-130	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
1,1-Dichloroethane	189399-1	20 ug/l	92.2	70.0-130	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
Tetrachloroethene	189375-2	20 ug/l	102	45.0-160	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
Tetrachloroethene	189399-1	20 ug/l	86.8	45.0-150	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
Trichloroethene	189375-2	20 ug/l	110	70.0-125	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
Trichloroethene	189399-1	20 ug/l	93.5	70.0-125	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
Vinyl chloride	189375-2	20 ug/l	97.9	50.0-145	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
Vinyl chloride	189399-1	20 ug/l	97.2	50.0-145	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		



April 20, 2015
Control No. 189360
Page 24 of 25

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
TCLP Volatile Organic Compounds (Continued)									
TCLP Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	189375-2	50 ug/l	76.3	75.0-120	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
4-Bromofluorobenzene	189399-1	50 ug/l	99.7	75.0-120	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
Dibromofluoromethane	189375-2	50 ug/l	93.8	85.0-115	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
Dibromofluoromethane	189399-1	50 ug/l	106	85.0-115	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		
Toluene-D8	189375-2	50 ug/l	89.3	95.0-120	V8728	10Apr15 1000 by 301	10Apr15 1322 by 301		
Toluene-D8	189399-1	50 ug/l	94.9	85.0-120	V8732	14Apr15 1000 by 301	14Apr15 1303 by 301		



April 20, 2015
Control No. 189360
Page 25 of 25

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
TCLP: Arsenic	< 0.05 mg/l	0.05	0.05	S38691-1	10Apr15 1806 by 313	14Apr15 2109 by 302	
TCLP: Barium	< 0.002 mg/l	0.002	0.002	S38691-1	10Apr15 1506 by 313	14Apr15 2109 by 302	
TCLP: Cadmium	< 0.004 mg/l	0.004	0.004	S38691-1	10Apr15 1506 by 313	14Apr15 2109 by 302	
TCLP: Chromium	< 0.007 mg/l	0.007	0.007	S38691-1	10Apr15 1806 by 313	14Apr15 2109 by 302	
TCLP: Lead	< 0.04 mg/l	0.04	0.04	S38691-1	10Apr15 1506 by 313	14Apr15 2109 by 302	
TCLP: Selenium	< 0.07 mg/l	0.07	0.07	S38691-1	10Apr15 1506 by 313	14Apr15 2109 by 302	
TCLP: Silver	< 0.007 mg/l	0.007	0.007	S38691-1	10Apr15 1506 by 313	14Apr15 2109 by 302	
TCLP: Mercury	< 0.0002 mg/l	0.0002	0.0002	S38693-2	13Apr15 0740 by 302	13Apr15 1122 by 302	
TCLP Volatile Organic Compounds							
Benzene	< 0.0050 mg/l	0.0050	0.0050	V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
2-Butanone	< 0.010 mg/l	0.010	0.010	V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
Carbon tetrachloride	< 0.0020 mg/l	0.0020	0.0020	V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
Chlorobenzene	< 0.0050 mg/l	0.0050	0.0050	V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
Chloroform	< 0.0050 mg/l	0.0050	0.0050	V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
1,2-Dichloroethane	< 0.0050 mg/l	0.0050	0.0050	V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
1,1-Dichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
Tetrachloroethene	< 0.0050 mg/l	0.0050	0.0050	V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
Trichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
Vinyl chloride	< 0.0020 mg/l	0.0020	0.0020	V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
TCLP Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	95.9 %			V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
Dibromofluoromethane (85.0-115%)	106 %			V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
Toluene-D8 (85.0-120%)	92.9 %			V8728-1	10Apr15 1000 by 301	10Apr15 1435 by 301	
TCLP Volatile Organic Compounds							
Benzene	< 0.0050 mg/l	0.0050	0.0050	V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
2-Butanone	< 0.010 mg/l	0.010	0.010	V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
Carbon tetrachloride	< 0.0020 mg/l	0.0020	0.0020	V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
Chlorobenzene	< 0.0050 mg/l	0.0050	0.0050	V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
Chloroform	< 0.0050 mg/l	0.0050	0.0050	V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
1,2-Dichloroethane	< 0.0050 mg/l	0.0050	0.0050	V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
1,1-Dichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
Tetrachloroethene	< 0.0050 mg/l	0.0050	0.0050	V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
Trichloroethene	< 0.0050 mg/l	0.0050	0.0050	V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
Vinyl chloride	< 0.0020 mg/l	0.0020	0.0020	V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
TCLP Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	81.5 %			V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
Dibromofluoromethane (85.0-115%)	95.5 %			V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	
Toluene-D8 (85.0-120%)	101 %			V8732-1	14Apr15 1000 by 301	15Apr15 1241 by 301	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

PAGE 1 OF 1

Client: Little Rock Air Force

Project Reference: _____

Project Manager: _____

Sampled By: Steve White

AC No. 189360

Sample Identification 189360

Date/Time Collected 4-9-15

Carrier: ATC/ELMT

Received Temperature C 12.0

Remarks: _____

ANALYSES REQUESTED

NO	OF	PO No.	MATRIX	W	G	C	A	S	R	O	T	O	I	A	M	E	I	L	S	Remarks
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				

Field pH calibration on _____ @ _____

Requisitioned By: Steve White Date/Time 4-9-15

Received By: John Doe Date/Time 4-9-15

Requisitioned By: _____ Date/Time _____

Received By: _____ Date/Time _____

Comments: _____

Turnaround Time Requested: (Please circle) _____

NORMAL or EXPEDITED IN _____ DAYS

Expedited results requested by: _____

Who should AIC contact with questions: _____

Phone: _____ Fax: _____

Report Attention to: _____

Report Address to: _____

Email Address: _____

FORM 0650