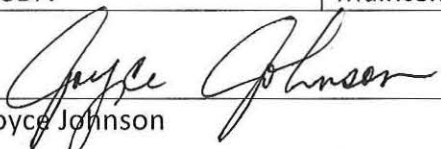


**Region 6 Compliance Assurance and Enforcement Division
INSPECTION REPORT**

Inspection Date:	07/24/2017		
Media:	RCRA		
Regulatory Program(s)	Hazardous Waste		
Company Name:	United States Department of Agriculture		
Facility Name:	Dale Bumpers National Rice Research Center		
Facility Physical Location:	2955 Highway 130 East		
(city, state, zip code)	Stuttgart, Arkansas 72160		
Mailing address:	2955 Highway 130 East		
(city, state, zip code)	Stuttgart, Arkansas 72160		
County/Parish:	Arkansas County		
Facility Contact:	Joel Ledbetter (870) 672-8255	Safety & Occupational Health Specialist joel.ledbetter@ars.usda.gov	
FRS Number:	ARR000011932		
Identification/Permit Number:			
Media Number:			
NAICS:	54171		
SIC:			
Personnel participating in inspection:			
Joyce Johnson	USEPA	Enforcement Officer	214-665-8548
Angela Hays	USEPA	Enforcement Officer	214-665-2285
Ryan Hayden	ADEQ	Inspector	501-682-0875
Joel Ledbetter	USDA	Safety & Occupational Health Specialist	870-672-8255
Shelia Parker	USDA	Southeast Area Environmental Manager	662-686-3745
Matt McEntire	USDA	Support Scientist	870-672-8268
Robert Ideker	USDA	Maintenance Supervisor	870-672-8266
EPA Lead Inspector Signature/Date	 Joyce Johnson		11/16/17 Date
Supervisor Signature/Date	 Guy Tidmore		11/16/17 Date

Section I – INTRODUCTION

PURPOSE OF THE INSPECTION

EPA Region 6 inspectors Joyce Johnson and Angela Hays arrived at the United States Department of Agriculture - Dale Bumpers National Rice Research Center (Rice Research Center) located at 2955 Highway 130 East, Stuttgart AR 72160, at approximately 2:00 pm on July 24, 2107, for an unannounced inspection. We met with Joel Ledbetter, Safety & Occupational Health Specialist, at the Opening Conference. Joyce Johnson presented her credentials to Mr. Ledbetter and informed him EPA has a requirement to inspect a certain number of federal facilities each year and this particular facility was chosen to determine compliance with the Resource Conservation and Recovery Act (RCRA).

FACILITY DESCRIPTION

The Dale Bumpers National Rice Research Center (Rice Research Center) conducts research to help the U.S. rice industry remain competitive in the global marketplace by assuring high yields, superior grain quality, pest resistance, and stress tolerance in rice cultivars. Research at the facility includes: 1) conventional and genomic techniques; 2) evaluating and rejuvenating over 18,000 rice cultivars collected from around the world; 3) developing improved genetic stocks, germplasm and cultivars; 4) identifying biological properties; 5) conducting grain chemistry research; 6) exploring the genetic diversity; 7) molecular plant pathology; and 8) conducting studies to learn of physiological processes. (Photograph 1)

Section II – OBSERVATIONS

The facility physical review consisted of multiple locations: Rice research labs, hazardous waste collection areas, satellite accumulation points (SAPS), Universal Waste collection areas, a greenhouse. (Photographs 2-10)

Laboratories

Rice laboratories L1, L2a, L12, L15, and L18 were evaluated during this inspection. Laboratories L1, L15 and L18 are active and generating hazardous waste. Laboratories L2A and L12 were not generating hazardous waste during the time of the inspection. Mr. Ledbetter stated that projects are scheduled to start in about six (6) months. The waste stream generation log shows that petroleum ether, acetonitrile HPLC, chloroform, and 1M sodium hydroxide are either being stored and/or generated in these areas. The generation log also shows that 3% Pyridine, 5% cupric acetate, and 50% isooctane is being stored and/or generated in an area of L1 even though the generation log states this waste is not being generated. (Appendix 3)

Satellite Accumulation Points (SAPs)

One (1) SAP was observed in the L1 laboratory area. Ferric sulfate, xylene orange, methanol, hexanes, pyridine, cupric acetate, isooctane and petroleum ether are generated for lipid

analysis and extraction. Mr. Ledbetter stated that Labs L2A, L12 are currently inactive and that chemicals and/or hazardous wastes acetonitrile HPLC and chloroform used for analysis and DNA extraction are being stored only. (Photograph 3) Chloroform and sodium hydroxide for DNA extraction and salt tolerance are generated in the laboratories L15 and L18. Generation totals in liters for the above mentioned chemicals can be found in Appendix 3.

Universal Waste

Two (2) containers of used dry cell batteries were observed. The containers were labeled properly. (Photographs 6, 7 and 8) A copy of the certification to recycle is located at Appendix 5 of the inspection report.

Used oil is stored in a 270-gallon tank located outside of the Aquaculture Research Center. (Photograph 9). The used oil is collected from tractors and vehicles used by and belonging to this facility and the Harry K. Dupree Stuttgart National Aquaculture Research Center. The last shipment was on March 27, 2016. (Appendix 6).

Waste Disposal

The most recent hazardous waste shipment from this facility was on September 2, 2014. The previous shipment was in 2004. Hazardous waste from this facility was combined (mixed) with the hazardous waste from the Aquaculture Research Center. The facilities have separate EPA identification numbers. The manifest has the identification number for the Aquaculture Research Center. The transporter is RINECO Transportation and the designated facility is Clean Harbors in El Dorado, Arkansas. (Appendix 4)

Records Review

- Manifest #007699874FLE (Appendix 5)
 - Page 1, Block #3. Facility Emergency Response telephone number is missing.
 - Page 1, Block #18. Transporter's EPA ID number is missing.
 - Page 2, Block 27a, Line 3. Waste code is missing.
 - Page 3, Block 27a, Line 2. Waste code is missing.
- Hazardous Waste Profile Sheets have numerous discrepancies. (Appendix 7)
 - Page 1. Toxicity and listed waste boxes should be checked to match the EPA waste codes listed.
 - Page 2. The unused n-nitroso-n-methylurea is a listed waste (U-177).
 - Page 3. Listed waste box is not checked.
 - Page 4. Ignitable and listed waste boxes are not checked.
 - Page 6. PB Buffer is ignitable.
 - Page 8 and 13. Pyrethrum TR is ignitable. If it is in a spray can, it is also reactive.
 - Page 9. Toxicity box is not checked.
 - Page 10 states that the acrylamide is "used". If it is unused it should be U007.
 - Page 11 and 14. Chloroform is mischaracterized. If it is used it would be D022. The boxes are not checked.

- Page 16 and 18. Toxicity box is not checked.
- Pages 17. Corrosive and toxicity boxes are not check. The waste also contains potassium dichromate and would also be D007.
- Page 21. Toxicity box is not checked. The waste also contains potassium dichromate and would also be D007.
- Page 22 and 25. The spent chloroform/methanol mixture is over characterized as U-listed, should be D022. Mixture should be tested for ignitability. Although chloroform is not ignitable, methanol has a flash point of 54 F, and the high concentration of it in this mixture may render the entire mixture ignitable.
- Page 23. Corrosive and toxicity boxes are not checked, but incorrectly checked the listed waste box. The waste also contains potassium dichromate and would also be D007.
- Page 24. Unused acetonitrile would be U003, but the form says it was used, therefore it is not a U-listed waste. The acetonitrile should be tested for ignitability and corrosivity. Although the concentration of trifluoroacetic acid is small, the mixture might have a pH below 2.0.

Section III – AREAS OF CONCERN

- Manifest is missing hazardous waste codes.
- Numerous hazardous waste determinations are incorrect on the Hazardous Waste Profile Sheets.
- Hazardous waste from the Rice Research Facility is shipped out for disposal using the Aquaculture Research Facility's EPA ID number.

Section IV – FOLLOW UP

Additional documentation was requested from the facility following the inspection and several emails with documentation attached was received. Where appropriate, I have included information gleaned from those emails in this report. Documentation provided by the Rice Research Center shows the facility is operating as a Conditionally Exempt Small Quantity Generator (CESQG).

Section V – LIST OF APPENDICES

Appendix	Document
1	Photographic Log
2	Map of Facility
3	Hazardous Waste Stream Generation Documents
4	Manifest
5	Certificate of Recycling (Batteries)
6	Waste Oil Receipt
7	Hazardous Waste Profile Sheets
8	Opening/Closing Conference Sign-in Sheet

Appendix 1 Photographic Log



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

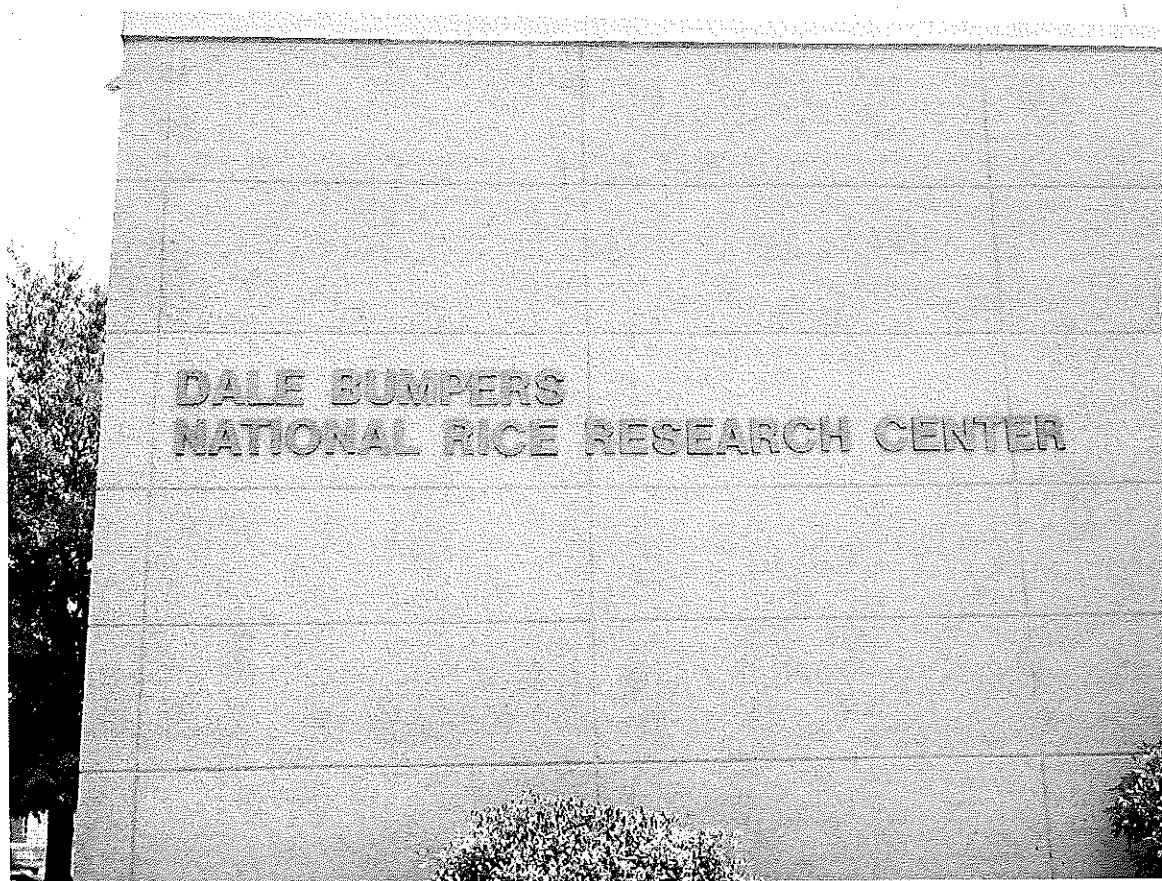
Photo no. 1

Location: USDA – Dale Bumpers National Rice Research Center (DBNRRC)

City: Stuttgart

County: Arkansas

State: AR



Date of Photo: 07/24/2017 Photographer: Angela Hays

Description: Exterior of facility.

Photograph Log

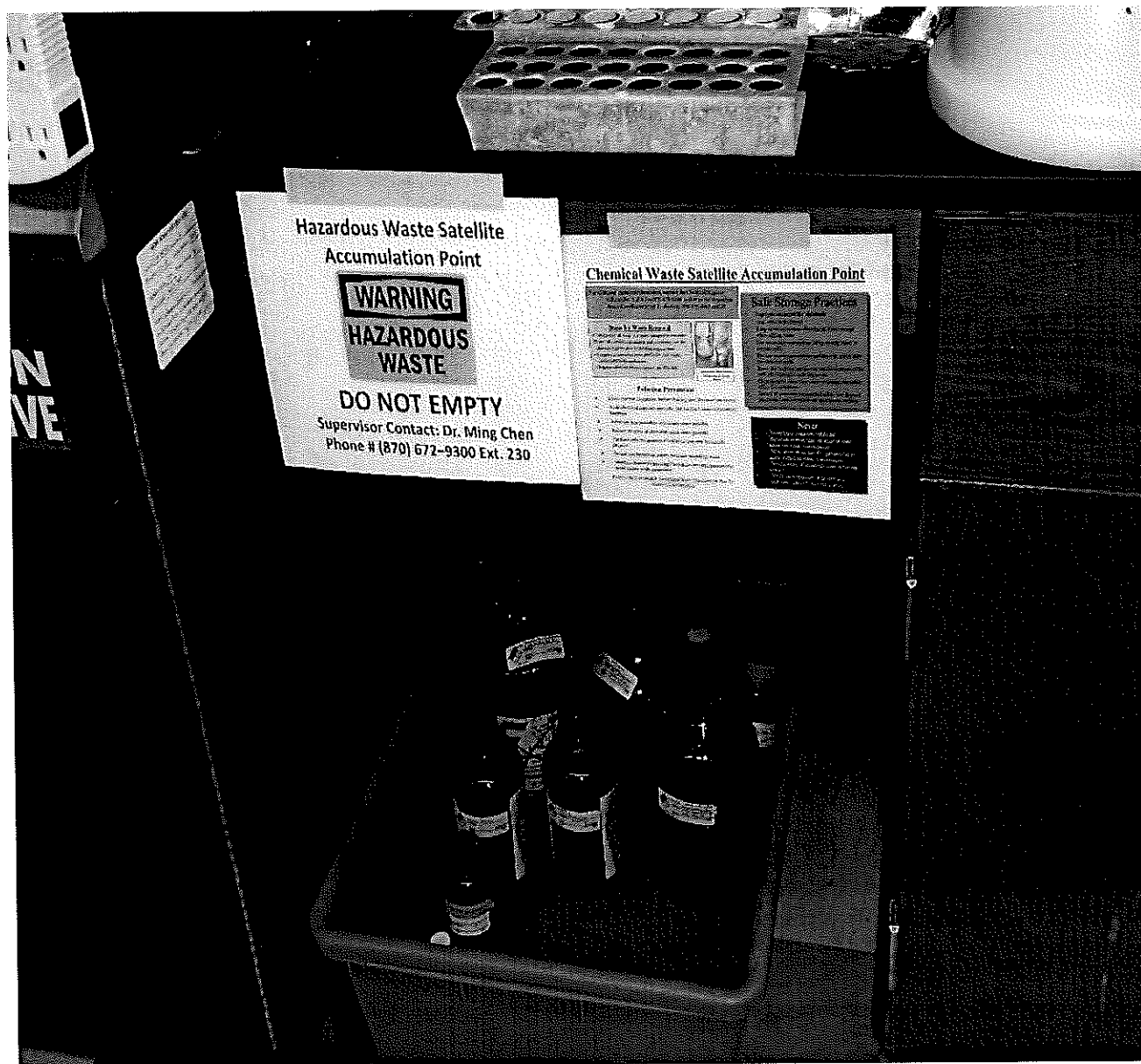
Photo no. 2

Location: USDA – Dale Bumpers National Rice Research Center (DBNRRC)

City: Stuttgart

County: Arkansas

State: AR



Date of Photo: 07/24/2017 Photographer: Angela Hays

Description: SAP #1 (L1). 2mM ferric sulfate, 100mM xylene orange, 90% Methanol, Hexanes, 3% Pyridine, 5% cupric acetate, 50% isooctane, and petroleum ether for lipid analysis and extraction.

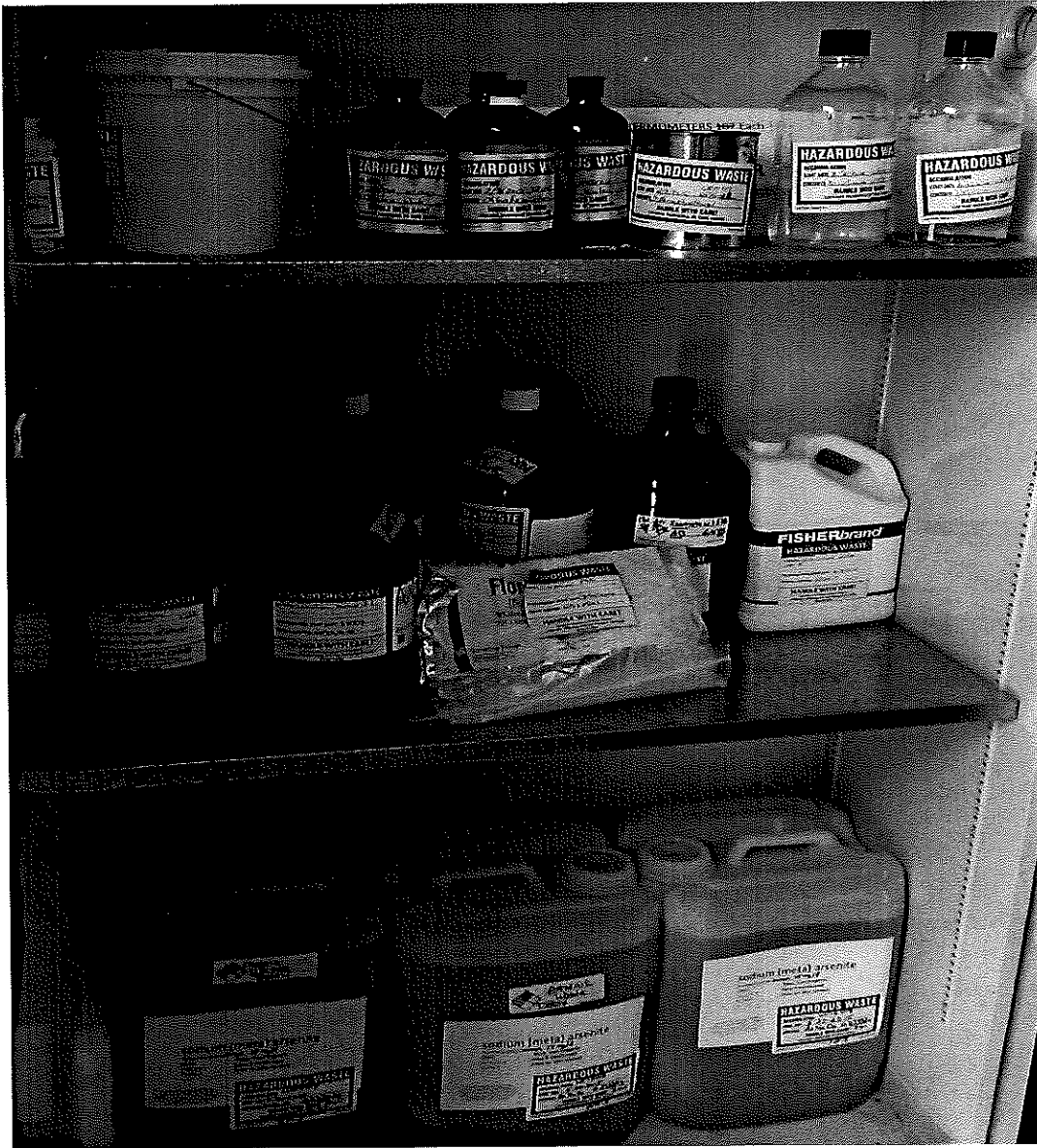
Photograph Log
Photo no. 3

Location: USDA – Dale Bumpers National Rice Research Center (DBNRRC)

City: Stuttgart

County: Arkansas

State: AR



Date of Photo: 07/24/2017 Photographer: Angela Hays

Description: Waste Marshalling (Storage) Area. Chemicals used in greenhouse including pesticides. (Hazardous Waste Profile Sheets at Appendix 4)

Photograph Log

Photo no. 4

Location: USDA – Dale Bumpers National Rice Research Center (DBNRRC)

City: Stuttgart

County: Arkansas

State: AR



Date of Photo: 07/24/2017 **Photographer:** Angela Hays

Description: Storage (L11). Corrosives storage areas. Two (2) small boxes of sulphuric acid, and spent Chemetric vials. Non-hazardous waste in cardboard box on bottom shelf.

Open and unlabeled container of fluorescent bulbs on left.

Photograph Log

Photo no. 5

Location: USDA – Dale Bumpers National Rice Research Center (DBNRRC)

City: Stuttgart

County: Arkansas

State: AR



Date of Photo: 07/24/2017 Photographer: Angela Hays

Description: Reactive storage area. Blue container on top shelf contains Arsenic used to grow rice in to measure the rate of absorption.

Photograph Log

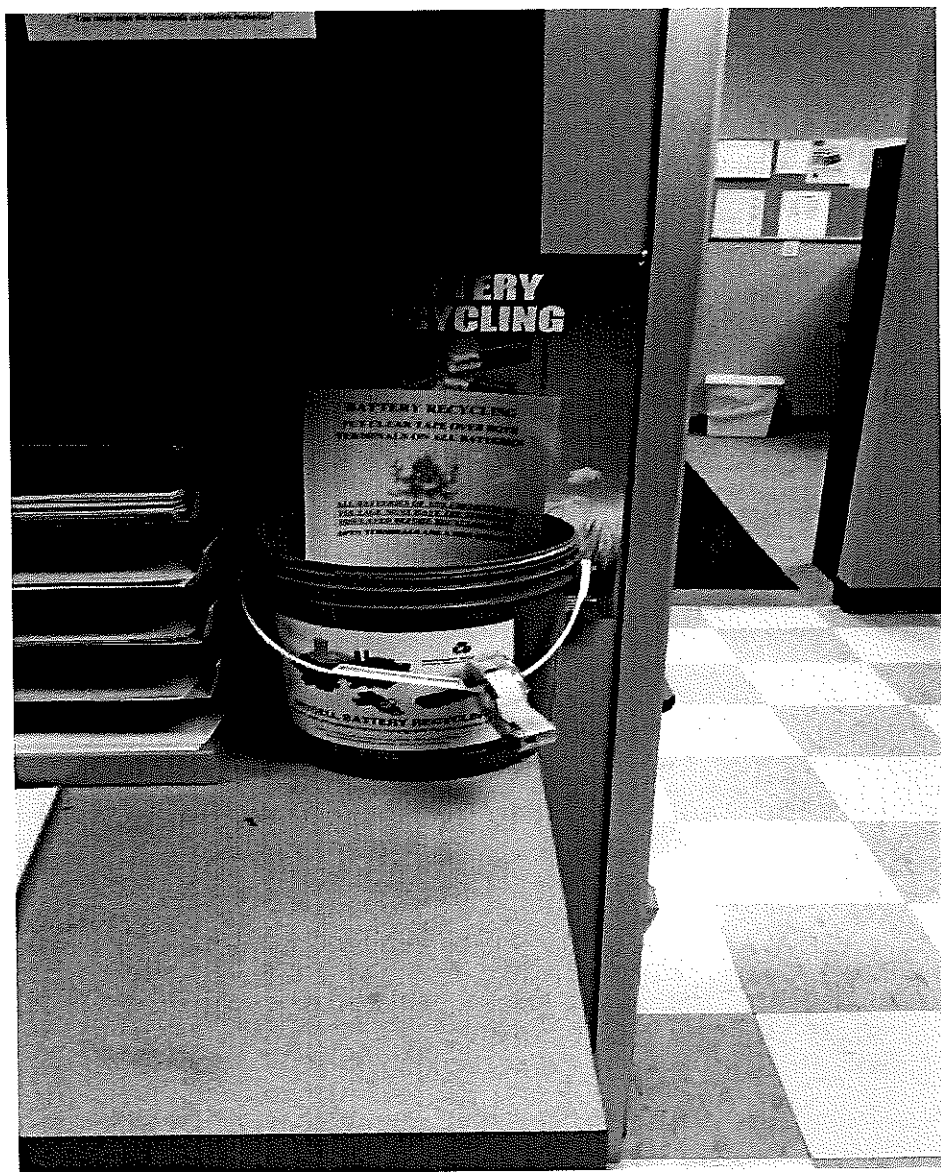
Photo no. 6

Location: USDA – Dale Bumpers National Rice Research Center (DBNRRC)

City: Stuttgart

County: Arkansas

State: AR



Date of Photo: 07/24/2017 Photographer: Angela Hays

Description: Dry cell batteries for disposal

Photograph Log
Photo no. 7

Location: USDA – Dale Bumpers National Rice Research Center (DBNRRC)

City: Stuttgart

County: Arkansas

State: AR



Date of Photo: 07/24/2017 Photographer: Angela Hays

Description: Contents of battery storage container.

Photograph Log
Photo no. 8

Location: USDA – Dale Bumpers National Rice Research Center (DBNRRC)

City: Stuttgart

County: Arkansas

State: AR



Date of Photo: 07/24/2017 Photographer: Angela Hays

Description: Dry cell batteries for disposal.

Photograph Log

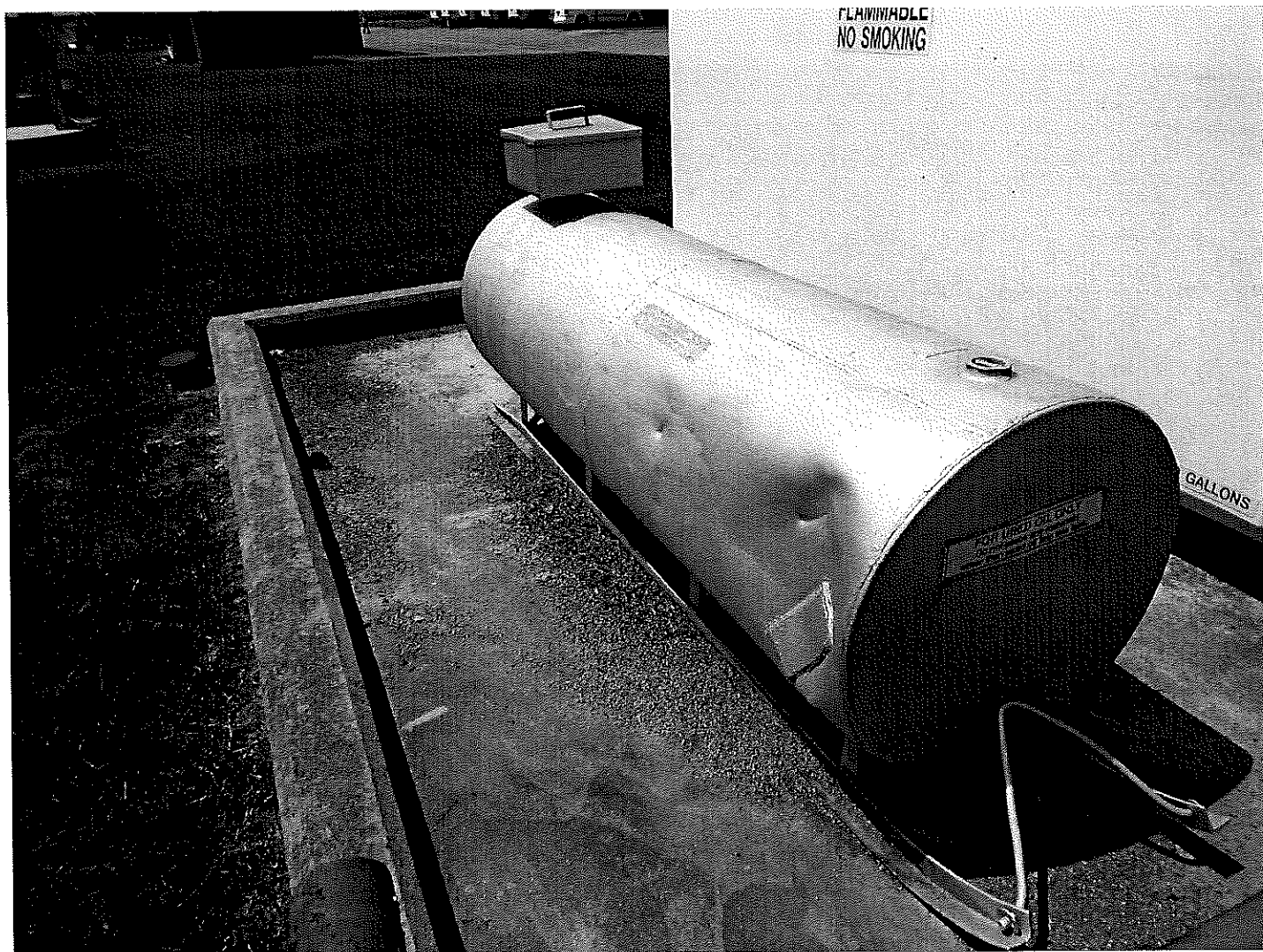
Photo no. 9

Location: USDA – Dale Bumpers National Rice Research Center (DBNRRC)

City: Stuttgart

County: Arkansas

State: AR



Date of Photo: 07/24/2017 Photographer: Angela Hays

Description: Waste oil from Rice and Aquaculture Research Centers. (270-gallon storage capacity.)

Photograph Log
Photo no. 10

Location: USDA – Dale Bumpers National Rice Research Center (DBNRRC)

City: Stuttgart

County: Arkansas

State: AR

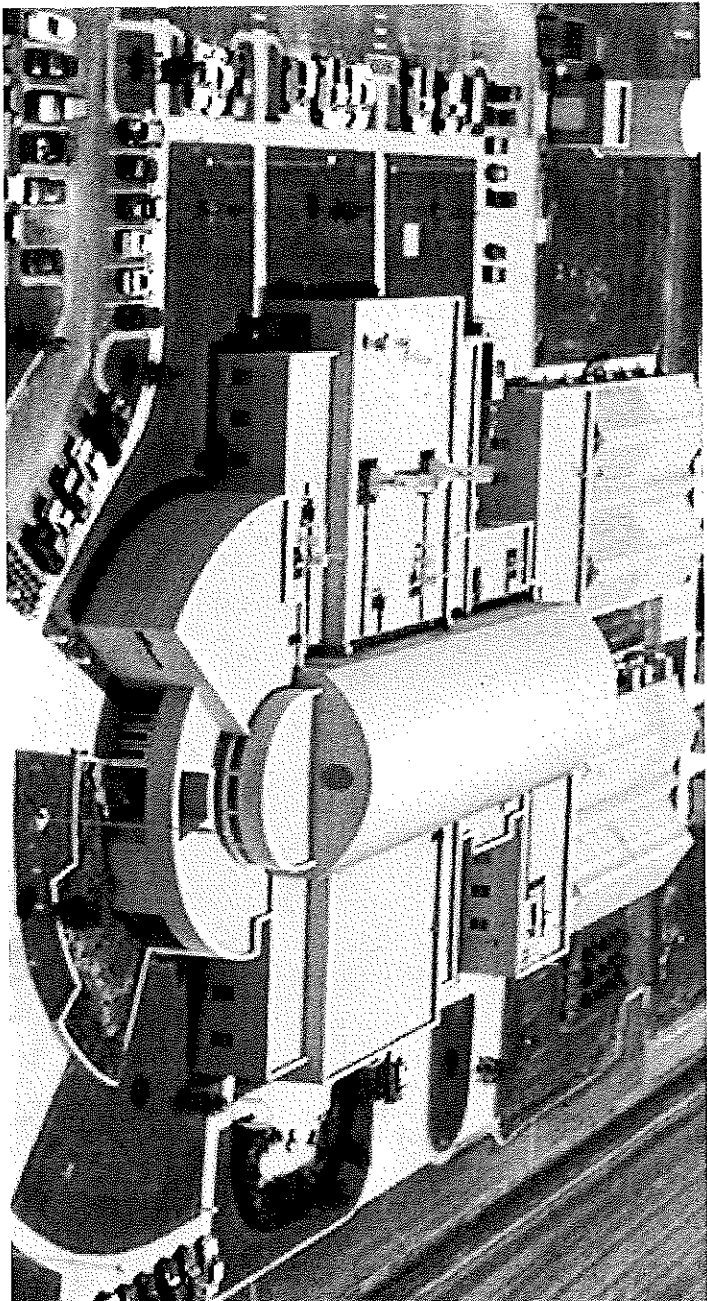


Date of Photo: 07/24/2017 **Photographer:** Angela Hays

Description: Rice in various stages of growth in one of the many greenhouses at the facility.

Appendix 2

Map of Facility



DALE BUMPERS NATIONAL RICE RESEARCH CENTER

<https://www.ars.usda.gov/ARSLUserFiles/60280500/images/PhotoCarousel/Aerial%20650-350.jpg>

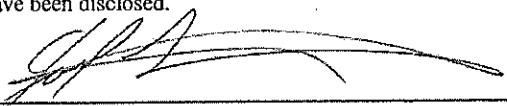
Appendix 3

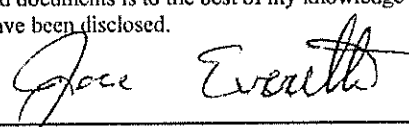
Hazardous Waste Stream Generation Documents

Facility	Laboratory SAP	Waste Stream generated	Process	Approx. Amount/Rate of Generation	Status
DBNRRC	L1	2mM ferric sulfate, 100mM xylene orange, 90% Methanol Hexanes	Lipid analysis	4L/yr.	Generating
DBNRRC	L1	Sample dependent	Lipid extraction	<10L/yr.	Not generating, work expected this winter
DBNRRC	L1	3% Pyridine, 5% cupric acetate, 50% isooctane	Lipid analysis	<4L/yr.	Not generating, work expected this winter
DBNRRC	L1	petroleum ether	Lipid extraction	<4L/month	Not generating, work expected this winter
DBNRRC	L2A	acetonitrile HPLC	analysis	4L/yr.	Not generating, work ended, waste in storage
DBNRRC	L12	Chloroform	DNA extraction	<4L/yr.	Not generating, work ended, waste in storage
DBNRRC	L15	Chloroform	DNA Extraction	<4L/yr.	Generating
DBNRRC	L18	1M sodium hydroxide	Salt tolerance	<1L/yr.	Generating
SNARC	L112	chloroform 66%, Methanol 33%	chlorophyll extraction	4/yr.	Not generating, work ended, waste in storage
SNARC	L132	chloroform 33%, methanol 33%	lipid extraction	2L/yr.	Generating
SNARC	L132	acetonitrile	HPLC analysis	<6L/yr.	Generating starting
SNARC	L118	Trizole, chloroform	DNA extraction	<0.1L	Not generating, waste in SAP
SNARC	L118	SPANDS accuvac Reagent hydrochloric acid, sodium arsenite	fluoride analysis	<1L/yr.	Not generating, waste in SAP

DBNRRC = Dale Bumpers National Rice Research Center

SNARC = Harry K. Dupree Stuttgart national Aquaculture Research Center

HAZARDOUS WASTE PROFILE SHEET																																												
Accumulation Start Date: 12/8/2014		Profile No. WP15001																																										
Generator Name: Joel Ledbetter		Title: SOHS																																										
Facility Address: SNARC 2955 HWY 130 E, Stuttgart, AR 72160																																												
Generator USEPA ID No.: ARR000011940																																												
Name of Waste: Mercury Thermometers																																												
EPA Waste Code: D009, U115																																												
Process Generating Waste: Laboratory Cleanout																																												
Amount: 115 Each		Mode of Collection: Unused Chemical																																										
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☒</td> <td style="width: 25%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 65%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☒	Solid	☐	Ignitable	☐	Liquid	☐	Reactive	☐	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 33%; padding: 5px;">Component</th> <th style="width: 33%; padding: 5px;">Concentration</th> <th style="width: 33%; padding: 5px;">Range</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Mercury</td> <td style="padding: 5px;">1ml Each</td> <td style="padding: 5px;">0.5-2ml</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	Mercury	1ml Each	0.5-2ml										Total 100%		
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Total 100%																																												
Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)																																												
Generator Certification: I <u>Joel ledbetter</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. All known or suspected hazards have been disclosed.																																												
Signature: 		Date: 9/22/2014																																										
Waste Transport Date:																																												
Shipping Manifest Number:																																												
Hazardous Waste Coordinator Initials: JFL																																												

HAZARDOUS WASTE PROFILE SHEET																																												
Accumulation Start Date: 11/17/2014		Profile No. WP15002																																										
Generator Name: Meng Chen		Title: Scientist																																										
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																												
Generator USEPA ID No.: ARR000011932																																												
Name of Waste: N-nitroso-N-methylurea																																												
EPA Waste Code: Not Listed																																												
Process Generating Waste: Laboratory Cleanout																																												
Amount: 25g		Mode of Collection: Unused Chemical																																										
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☒</td> <td style="width: 25%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 65%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☒	Solid	☐	Ignitable	☐	Liquid	☐	Reactive	☐	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 35%; padding: 5px;">Component</th> <th style="width: 35%; padding: 5px;">Concentration</th> <th style="width: 30%; padding: 5px;">Range</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">N-nitroso-N-methylurea</td> <td style="text-align: center; padding: 5px;">100</td> <td style="text-align: center; padding: 5px;">10%</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	N-nitroso-N-methylurea	100	10%										Total 100%		
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Generator Certification: I <u>Jace Everette</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. All known or suspected hazards have been disclosed.																																												
Signature: 		Date: 11/17/2014																																										
Waste Transport Date:																																												
Shipping Manifest Number:																																												
Hazardous Waste Coordinator Initials: JFL																																												

HAZARDOUS WASTE PROFILE SHEET

Accumulation Start Date: 12/8/2014

Profile No. WP15003

Generator Name: Yulin Jia

Title: Scientist

Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160

Generator USEPA ID No.: ARR000011932

Name of Waste: Formaldehyde Solution

EPA Waste Code: U122

Process Generating Waste: Laboratory Cleanout

Amount: 500ml

Mode of Collection: **Unused Chemical**

Characteristics: (Check all that apply)

☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste

Material Composition

Component	Concentration	Range
formaldehyde	37%	10%

Total 100%

Basis for Information: ☐ Chemical Analysis (see attached test results)

☒ User Knowledge (Attach Supporting Documents such as MSDS)

Generator Certification: I Tracy Bianco 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. All known or suspected hazards have been disclosed.

Signature:

Tracy Bianco

Date:

12/8/2014

Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials: JFL

HAZARDOUS WASTE PROFILE SHEET																																									
Accumulation Start Date: 12/8/2014		Profile No. WP15004																																							
Generator Name: Yulin Jia		Title: Scientist																																							
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																									
Generator USEPA ID No.: ARR000011932																																									
Name of Waste: "Lactophenol II Solution																																									
EPA Waste Code: U118, D001																																									
Process Generating Waste: Laboratory Cleanout																																									
Amount: 100ml		Mode of Collection: mixed unused																																							
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 25%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 65%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☐	Solid	☐	Ignitable	☒	Liquid	☐	Reactive	☐	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 33%;">Component</th> <th style="width: 33%;">Concentration</th> <th style="width: 33%;">Range</th> </tr> </thead> <tbody> <tr> <td>phenol</td> <td>33%</td> <td>10%</td> </tr> <tr> <td>ethanol</td> <td>33%</td> <td>10%</td> </tr> <tr> <td>lactic acid</td> <td>33%</td> <td>10%</td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	phenol	33%	10%	ethanol	33%	10%	lactic acid	33%	10%	Total 100%		
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☐	Other	☐	Toxicity																																						
☐		☐	Listed Waste																																						
Material Composition																																									
Component	Concentration	Range																																							
phenol	33%	10%																																							
ethanol	33%	10%																																							
lactic acid	33%	10%																																							
Total 100%																																									
Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)																																									
Generator Certification: I <u>Tracy Bianco</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. All known or suspected hazards have been disclosed.																																									
Signature: <u>Tracy Bianco</u>		Date: 12/8/2014																																							
Waste Transport Date:																																									
Shipping Manifest Number:																																									
Hazardous Waste Coordinator Initials: JFL																																									

HAZARDOUS WASTE PROFILE SHEET																																												
Accumulation Start Date: 12/8/2014		Profile No. WP15005																																										
Generator Name: Yulin Jia		Title: Scientist																																										
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																												
Generator USEPA ID No.: ARR000011932																																												
Name of Waste: ethidium bromide																																												
EPA Waste Code: Not listed																																												
Process Generating Waste: Laboratory Cleanout																																												
Amount: 1lbs		Mode of Collection: mixed unused																																										
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 35%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 55%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☐	Solid	☐	Ignitable	☒	Liquid	☐	Reactive	☐	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 33%; padding: 5px;">Component</th> <th style="width: 33%; padding: 5px;">Concentration</th> <th style="width: 33%; padding: 5px;">Range</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">ethidium bromide</td> <td style="padding: 5px;">1%</td> <td style="padding: 5px;">0.5%</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	ethidium bromide	1%	0.5%										Total 100%		
☐	Solid	☐	Ignitable																																									
☒	Liquid	☐	Reactive																																									
☐	Gas	☐	Corrosive Characteristic																																									
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Waste Transport Date:																																												
Shipping Manifest Number:																																												
Hazardous Waste Coordinator Initials: JFL																																												

HAZARDOUS WASTE PROFILE SHEET																																												
Accumulation Start Date: 12/8/2014		Profile No. WP15006																																										
Generator Name: Yulin Jia		Title: Scientist																																										
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																												
Generator USEPA ID No.: ARR000011932																																												
Name of Waste: Buffer PBI																																												
EPA Waste Code: Not listed																																												
Process Generating Waste: Laboratory Cleanout																																												
Amount: 150ml		Mode of Collection: unused																																										
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 25%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 25%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☐	Solid	☐	Ignitable	☒	Liquid	☐	Reactive	☐	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 33%; padding: 5px;">Component</th> <th style="width: 33%; padding: 5px;">Concentration</th> <th style="width: 33%; padding: 5px;">Range</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">guanidinium chloride</td> <td style="padding: 5px;">50%</td> <td style="padding: 5px;">25-50</td> </tr> <tr> <td style="padding: 5px;">isopropyl alcohol</td> <td style="padding: 5px;">50%</td> <td style="padding: 5px;">25-50</td> </tr> <tr> <td style="padding: 5px;"> </td> <td style="padding: 5px;"> </td> <td style="padding: 5px;"> </td> </tr> <tr> <td style="padding: 5px;"> </td> <td style="padding: 5px;"> </td> <td style="padding: 5px;"> </td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	guanidinium chloride	50%	25-50	isopropyl alcohol	50%	25-50							Total 100%		
☐	Solid	☐	Ignitable																																									
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Signature: <u>Tracy Bianco</u>		Date: 12/8/2014																																										
Waste Transport Date:																																												
Shipping Manifest Number:																																												
Hazardous Waste Coordinator Initials: JFL																																												

HAZARDOUS WASTE PROFILE SHEET

Accumulation Start Date: 12/8/2014

Profile No. WP15007

Generator Name: Yulin Jia

Title: Scientist

Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160

Generator USEPA ID No.: ARR000011932

Name of Waste: Buffer AP3/E

EPA Waste Code: Not listed

Process Generating Waste: Laboratory Cleanout

Amount: 125ml

Mode of Collection: unused

Characteristics: (Check all that apply)

Material Composition

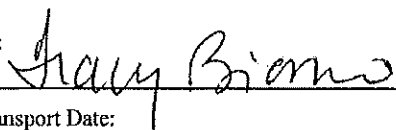
☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste

Component	Concentration	Range
guanidinium chloride	100%	50-100
Total 100%		

Basis for Information: ☐ Chemical Analysis (see attached test results)☒ User Knowledge (Attach Supporting Documents such as MSDS)

Generator Certification: I Tracy Bianco 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. All known or suspected hazards have been disclosed.

Signature:



Date:

12/8/2014

Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials: JFL

HAZARDOUS WASTE PROFILE SHEET																																									
Accumulation Start Date: 12/8/2014		Profile No. WP15008																																							
Generator Name: Anna McClung		Title: Scientist																																							
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																									
Generator USEPA ID No.: ARR000011932																																									
Name of Waste: Pyrethrum TR-insecticide																																									
EPA Waste Code: Not listed																																									
Process Generating Waste: Greenhouse treatments																																									
Amount: 5X2oz		Mode of Collection: used																																							
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 30%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 60%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☐	Solid	☐	Ignitable	☒	Liquid	☐	Reactive	☒	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 35%; padding: 5px;">Component</th> <th style="width: 35%; padding: 5px;">Concentration</th> <th style="width: 30%; padding: 5px;">Range</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">pyrethins</td> <td style="padding: 5px;">4%</td> <td style="padding: 5px;">na</td> </tr> <tr> <td style="padding: 5px;">piperonyl butoxide</td> <td style="padding: 5px;">16%</td> <td style="padding: 5px;">na</td> </tr> <tr> <td style="padding: 5px;">petroleum distillants</td> <td style="padding: 5px;">80%</td> <td style="padding: 5px;">na</td> </tr> <tr> <td colspan="3" style="padding: 5px; text-align: center;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	pyrethins	4%	na	piperonyl butoxide	16%	na	petroleum distillants	80%	na	Total 100%		
☐	Solid	☐	Ignitable																																						
☒	Liquid	☐	Reactive																																						
☒	Gas	☐	Corrosive Characteristic																																						
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Total 100%																																									
Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)																																									
Generator Certification: I <u>Joel Ledbetter</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. All known or suspected hazards have been disclosed.																																									
Signature: 		Date: 12/8/2014																																							
Waste Transport Date:																																									
Shipping Manifest Number:																																									
Hazardous Waste Coordinator Initials: JFL																																									

HAZARDOUS WASTE PROFILE SHEET																																									
Accumulation Start Date: 12/22/2014		Profile No. WP15009																																							
Generator Name: Jo Heuschele		Title: Scientist																																							
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																									
Generator USEPA ID No.: ARR000011940																																									
Name of Waste: Sodium (meta)arsenite																																									
EPA Waste Code: D004 Characteristic Contains Arsenic at greater than 5PPM																																									
Process Generating Waste: Laboratory Experiment																																									
Amount: 13 Liters		Mode of Collection: Used Chemical																																							
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 25%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 65%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☐	Solid	☐	Ignitable	☒	Liquid	☐	Reactive	☐	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 33%; padding: 5px;">Component</th> <th style="width: 33%; padding: 5px;">Concentration</th> <th style="width: 34%; padding: 5px;">Range</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Sodium Arsenite</td> <td style="padding: 5px;">60PPM</td> <td style="padding: 5px;">20%</td> </tr> <tr> <td style="padding: 5px;">Water</td> <td style="padding: 5px;">Balance</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> <tr> <td colspan="3" style="padding: 5px; text-align: center;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	Sodium Arsenite	60PPM	20%	Water	Balance					Total 100%		
☐	Solid	☐	Ignitable																																						
☒	Liquid	☐	Reactive																																						
☐	Gas	☐	Corrosive Characteristic																																						
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Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)																																									
Generator Certification: I, <u>Jo Heuschele</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. All known or suspected hazards have been disclosed.																																									
Signature:		Date: <u>1/8/15</u>																																							
Waste Transport Date:																																									
Shipping Manifest Number:																																									
Hazardous Waste Coordinator Initials:																																									

HAZARDOUS WASTE PROFILE SHEET			
Accumulation Start Date: 2/9/2015		Profile No. WP15010	
Generator Name: Howard Black		Title: Scientist	
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160			
Generator USEPA ID No.: ARR000011940			
Name of Waste: Acrylamide/bis-acrylamide, <10%			
EPA Waste Code: NA, Acute Tox. Aquatic Tox. Carc.			
Process Generating Waste: Laboratory Experiment			
Amount: 1.5L		Mode of Collection: Used Chemical	
Characteristics: (Check all that apply)		Material Composition	
☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste
		Component	Concentration
		acrylamide	3%
		N,N'-methylenebisacrylamide	1%
			20%
Total 100%			
Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)			
Generator Certification: I <u>Howard Black</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. All known or suspected hazards have been disclosed.			
Signature: <u>Howard I. Black</u>		Date: <u>February 13, 2015</u>	
Waste Transport Date:			
Shipping Manifest Number:			
Hazardous Waste Coordinator Initials:			

HAZARDOUS WASTE PROFILE SHEET																																									
Accumulation Start Date: 2/9/2015		Profile No. WP15011																																							
Generator Name: Quynh Grunden		Title: Scientist																																							
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																									
Generator USEPA ID No.: ARR000011932																																									
Name of Waste: Chloroform Extract Waste																																									
EPA Waste Code: U044																																									
Process Generating Waste: Laboratory Experiment																																									
Amount: 4X500ml Amber Glass bottles		Mode of Collection: Used Chemical																																							
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☒</td> <td style="width: 30%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 60%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☒	Solid	☐	Ignitable	☒	Liquid	☐	Reactive	☐	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 33%; padding: 5px;">Component</th> <th style="width: 33%; padding: 5px;">Concentration</th> <th style="width: 34%; padding: 5px;">Range</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Chloroform</td> <td style="padding: 5px;">50%</td> <td style="padding: 5px;">20%</td> </tr> <tr> <td style="padding: 5px;">Plant Matter</td> <td style="padding: 5px;">Balance</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> <tr> <td colspan="3" style="padding: 5px; text-align: center;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	Chloroform	50%	20%	Plant Matter	Balance					Total 100%		
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Signature: 		Date: <u>6-30-2015</u>																																							
Waste Transport Date:																																									
Shipping Manifest Number:																																									
Hazardous Waste Coordinator Initials:																																									

HAZARDOUS WASTE PROFILE SHEET																																									
Accumulation Start Date: 2/9/2015		Profile No. WP15012																																							
Generator Name: Quynh Grunden		Title: Scientist																																							
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																									
Generator USEPA ID No.: ARR000011932																																									
Name of Waste: 2-Mercaptoethanol																																									
EPA Waste Code:																																									
Process Generating Waste: Laboratory Experiment																																									
Amount: 1X100ml Amber Glass in Can		Mode of Collection: un-used Chemical																																							
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 35%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 55%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☐	Solid	☐	Ignitable	☒	Liquid	☐	Reactive	☐	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 33%; padding: 5px;">Component</th> <th style="width: 33%; padding: 5px;">Concentration</th> <th style="width: 34%; padding: 5px;">Range</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">2mercaptoethanol</td> <td style="padding: 5px;">100%</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	2mercaptoethanol	100%								Total 100%		
☐	Solid	☐	Ignitable																																						
☒	Liquid	☐	Reactive																																						
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Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)																																									
Generator Certification: I <u>Quynh Grunden</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. All known or suspected hazards have been disclosed.																																									
Signature: <u><i>Quynh Grunden</i></u>		Date: <u>6-30-15</u>																																							
Waste Transport Date:																																									
Shipping Manifest Number:																																									
Hazardous Waste Coordinator Initials:																																									

HAZARDOUS WASTE PROFILE SHEET																																									
Accumulation Start Date: 2/9/2015		Profile No. WP15013																																							
Generator Name: Howard Black		Title: Scientist																																							
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																									
Generator USEPA ID No.: ARR000011940																																									
Name of Waste: Pyrethrum TR-insecticide																																									
EPA Waste Code: Not Listed																																									
Process Generating Waste: Greenhouse treatment																																									
Amount: 1X2oz		Mode of Collection: Used Chemical																																							
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 25%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 25%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☐	Solid	☐	Ignitable	☐	Liquid	☐	Reactive	☒	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 35%;">Component</th> <th style="width: 30%;">Concentration</th> <th style="width: 35%;">Range</th> </tr> </thead> <tbody> <tr> <td>pyrethrins</td> <td>4%</td> <td>Na</td> </tr> <tr> <td>piperonyl butoxide</td> <td>16%</td> <td>NA</td> </tr> <tr> <td>petroleum distillants</td> <td>80%</td> <td>NA</td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	pyrethrins	4%	Na	piperonyl butoxide	16%	NA	petroleum distillants	80%	NA	Total 100%		
☐	Solid	☐	Ignitable																																						
☐	Liquid	☐	Reactive																																						
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Total 100%																																									
Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)																																									
Generator Certification: I <u>Howard Black</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. All known or suspected hazards have been disclosed.																																									
Signature: <u>Howard L. Black</u> Date: <u>February 13, 2015</u>																																									
Waste Transport Date: Shipping Manifest Number: Hazardous Waste Coordinator Initials:																																									

HAZARDOUS WASTE PROFILE SHEET

Accumulation Start Date: 2/9/2015

Profile No. ~~WP15014~~ WP15014

Generator Name: Melissa Jia

Title: Scientist

Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160

Generator USEPA ID No.: ARR000011940

Name of Waste: Chloroform extraction waste

EPA Waste Code: U044

Process Generating Waste: Laboratory Waste

Amount: 1X500ml AG

Mode of Collection: Used Chemical

Characteristics: (Check all that apply)

Material Composition

☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste

Component	Concentration	Range
Choroform	50%	Na
Plant Matter	50%	NA

Total 100%

Basis for Information: ☐ Chemical Analysis (see attached test results)☒ User Knowledge (Attach Supporting Documents such as MSDS)

Generator Certification: I Melissa Jia 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. All known or suspected hazards have been disclosed.

Signature: 

Date:

2/23/15

Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials:

HAZARDOUS WASTE PROFILE SHEET

Accumulation Start Date: 2/9/2015

Profile No. WP15015

Generator Name: Quynh Grunden

Title: Scientist

Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160

Generator USEPA ID No.: ARR000011932

Name of Waste: Avid 0.15C miticide/insecticide

EPA Waste Code: EPA Pest Reg 100-896

Process Generating Waste: Laboratory Experiment

Amount: 1X8oz plastic bottle

Mode of Collection: un-used Chemical

Characteristics: (Check all that apply)

☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste

Material Composition

Component	Concentration	Range
Abamectin	2%	
Total 100%		

Basis for Information: ☐ Chemical Analysis (see attached test results)

☒ User Knowledge (Attach Supporting Documents such as MSDS)

Generator Certification: I, Quynh Grunden 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. All known or suspected hazards have been disclosed.

Signature:

Quynh Grunden

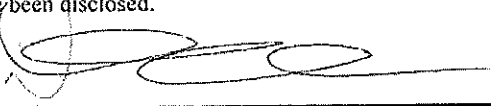
Date:

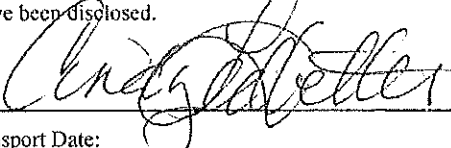
6-30-2015

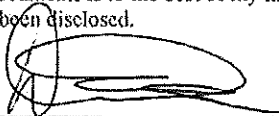
Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials:

HAZARDOUS WASTE PROFILE SHEET																																												
Accumulation Start Date: 2/18/2015		Profile No. WP15016																																										
Generator Name: Jo Heuschele		Title: Scientist																																										
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																												
Generator USEPA ID No.: ARR000011940																																												
Name of Waste: Sodium (meta)arsenite																																												
EPA Waste Code: D004 Characteristic Contains Arsenic at greater than 5PPM																																												
Process Generating Waste: Laboratory Experiment																																												
Amount: 8 liters		Mode of Collection: Used Chemical																																										
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 25%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 25%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☐	Solid	☐	Ignitable	☒	Liquid	☐	Reactive	☐	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 33%; padding: 5px;">Component</th> <th style="width: 33%; padding: 5px;">Concentration</th> <th style="width: 33%; padding: 5px;">Range</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Sodium Arsenite</td> <td style="padding: 5px;">60PPM</td> <td style="padding: 5px;">20%</td> </tr> <tr> <td style="padding: 5px;">Water</td> <td style="padding: 5px;">Balance</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	Sodium Arsenite	60PPM	20%	Water	Balance								Total 100%		
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Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)																																												
Generator Certification: I <u>Jo Heuschele</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. All known or suspected hazards have been disclosed.																																												
Signature: 		Date: 3/10/15																																										
Waste Transport Date:																																												
Shipping Manifest Number:																																												
Hazardous Waste Coordinator Initials:																																												

HAZARDOUS WASTE PROFILE SHEET			
Accumulation Start Date: 3/10/2015		Profile No. WP15017	
Generator Name: Cindy Ledbetter		Title: BST	
Facility Address: SNARC 2955 HWY 130 E, Stuttgart, AR 72160			
Generator USEPA ID No.: ARR000011940			
Name of Waste: Chemetrics COD Vials			
EPA Waste Code: D002, D011, D009			
Process Generating Waste: Laboratory Experiment			
Amount: 200 vials 1X150 2X25 (11 lbs)		Mode of Collection: un-used Chemical	
Characteristics: (Check all that apply)		Material Composition	
☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste
		Component	Concentration
		sulfuric acid	65-87%
		silver nitrate	<1%
		mercuric sulfate	<1%
		potassium dichromate	<1%
Total 100%			
Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)			
Generator Certification: I, <u>Cindy Ledbetter</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. All known or suspected hazards have been disclosed.			
Signature: 		Date: 07/02/2015	
Waste Transport Date:			
Shipping Manifest Number:			
Hazardous Waste Coordinator Initials:			

HAZARDOUS WASTE PROFILE SHEET																																									
Accumulation Start Date: 5/20/2015		Profile No. WP15018																																							
Generator Name: Jo Heuschele		Title: Scientist																																							
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160																																									
Generator USEPA ID No.: ARR000011932																																									
Name of Waste: Sodium (meta)arsenite																																									
EPA Waste Code: D004 Characteristic Contains Arsenic at greater than 5PPM																																									
Process Generating Waste: Laboratory Experiment																																									
Amount: 60 Liters-3X20Liter Carboys		Mode of Collection: Used Chemical																																							
Characteristics: (Check all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 25%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 25%;">Ignitable</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Liquid</td> <td style="text-align: center;">☐</td> <td>Reactive</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Gas</td> <td style="text-align: center;">☐</td> <td>Corrosive Characteristic</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Other</td> <td style="text-align: center;">☐</td> <td>Toxicity</td> </tr> <tr> <td style="text-align: center;">☐</td> <td></td> <td style="text-align: center;">☐</td> <td>Listed Waste</td> </tr> </table>		☐	Solid	☐	Ignitable	☒	Liquid	☐	Reactive	☐	Gas	☐	Corrosive Characteristic	☐	Other	☐	Toxicity	☐		☐	Listed Waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center; padding: 5px;">Material Composition</th> </tr> <tr> <th style="width: 33%; padding: 5px;">Component</th> <th style="width: 33%; padding: 5px;">Concentration</th> <th style="width: 33%; padding: 5px;">Range</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Sodium Arsenite</td> <td style="padding: 5px;">15PPM</td> <td style="padding: 5px;">20%</td> </tr> <tr> <td style="padding: 5px;">Water</td> <td style="padding: 5px;">Balance</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> <tr> <td colspan="3" style="padding: 5px; text-align: center;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	Sodium Arsenite	15PPM	20%	Water	Balance					Total 100%		
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Signature: 		Date: <u>7/10/15</u>																																							
Waste Transport Date:																																									
Shipping Manifest Number:																																									
Hazardous Waste Coordinator Initials:																																									

HAZARDOUS WASTE PROFILE SHEET

Accumulation Start Date: 6/30/2015

Profile No. WP15019

Generator Name: Benjamin Beck

Title: Scientist

Facility Address: SNARC 2955 HWY 130 E, Stuttgart, AR 72160

Generator USEPA ID No.: ARR000011940

Name of Waste: Citrisolv Clearing Agent

EPA Waste Code: D001 Ignitable

Process Generating Waste: Laboratory Experiment

Amount: 1 Gallon PB

Mode of Collection: Used Chemical

Characteristics: (Check all that apply)

Material Composition

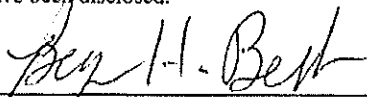
☐	Solid	☒	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste

Component	Concentration	Range
5989-27-5	98.0	
25013-16-5	0.24	
Total 100%		

Basis for Information: ☐ Chemical Analysis (see attached test results)☒ User Knowledge (Attach Supporting Documents such as MSDS)

Generator Certification: I Benjamin Beck 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. All known or suspected hazards have been disclosed.

Signature:



Date:

8 July 2015

Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials:

HAZARDOUS WASTE PROFILE SHEET

Accumulation Start Date: 6/30/2015

Profile No. WP15020

Generator Name: Benjamin Beck

Title: Scientist

Facility Address: SNARC 2955 HWY 130 E, Stuttgart, AR 72160

Generator USEPA ID No.: ARR000011940

Name of Waste: 50% isopropanol 1% Citrisolv Clearing Agent

EPA Waste Code: D001 Ignitable

Process Generating Waste: Laboratory Experiment

Amount: 1X4L AG

Mode of Collection: Used Chemical

Characteristics: (Check all that apply)

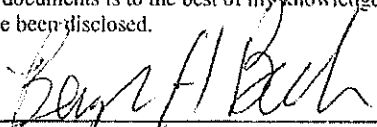
Material Composition

☐	Solid	☒	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste

Component	Concentration	Range
5989-27-5	1%	
25013-16-5	0.01%	
67-63-0	50%	
Total 100%		

Basis for Information: ☐ Chemical Analysis (see attached test results)☒ User Knowledge (Attach Supporting Documents such as MSDS)

Generator Certification: I Benjamin Beck 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. All known or suspected hazards have been disclosed.

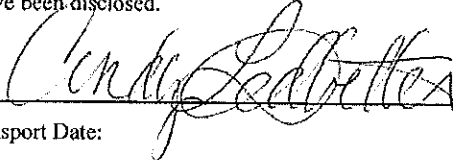
Signature: 

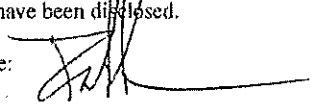
Date: 8 Jul 2015

Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials:

HAZARDOUS WASTE PROFILE SHEET			
Accumulation Start Date: 7/2/2015		Profile No. WP15021	
Generator Name: Cindy Ledbetter		Title: BST	
Facility Address: SNARC 2955 HWY 130 E, Stuttgart, AR 72160			
Generator USEPA ID No.: ARR000011940			
Name of Waste: Chemetrics COD Vials			
EPA Waste Code: D002, D011, D009			
Process Generating Waste: Laboratory Experiment			
Amount: 150 vials 1X150		Mode of Collection: un-used Chemical	
Characteristics: (Check all that apply)		Material Composition	
☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☒	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste
		Component	Concentration
		sulfuric acid	65-87%
		silver nitrate	<1%
		mercuric sulfate	<1%
		potassium dichromate	<1%
Total 100%			
Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)			
Generator Certification: I <u>Cindy Ledbetter</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. All known or suspected hazards have been disclosed.			
Signature: 		Date: 7/2/2015	
Waste Transport Date:			
Shipping Manifest Number:			
Hazardous Waste Coordinator Initials:			

HAZARDOUS WASTE PROFILE SHEET			
Accumulation Start Date: 11/5/2015		Profile No. WP15022	
Generator Name: Bart Green		Title: Scientist	
Facility Address: SNARC 2955 HWY 130 E, Stuttgart, AR 72160			
Generator USEPA ID No.: ARR000011940			
Name of Waste: Spent chloroform-methanol extraction fluid			
EPA Waste Code: U044 & U154			
Process Generating Waste: Chlorophyll extractions			
Amount: 1X4LAG 1X1GAG		Mode of Collection: Used Chemical	
Characteristics: (Check all that apply)		Material Composition	
☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☒	Listed Waste
		Total 100%	
Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)			
Generator Certification: I, Bart Green , 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. All known or suspected hazards have been disclosed.			
Signature: 		Date: 11/5/2015	
Waste Transport Date:			
Shipping Manifest Number:			
Hazardous Waste Coordinator Initials:			

HAZARDOUS WASTE PROFILE SHEET

Accumulation Start Date: 10/22/2015

Profile No. WP15023

Generator Name: Cindy Ledbetter

Title: BST

Facility Address: SNARC 2955 HWY 130 E, Stuttgart, AR 72160

Generator USEPA ID No.: ARR000011940

Name of Waste: Spent Chemetrics COD Vials

EPA Waste Code: D002, D011, D009

Process Generating Waste: COD Determination

Amount: 150 vials 1X150 box

Mode of Collection: used Chemical

Characteristics: (Check all that apply)

Material Composition

☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☒	Listed Waste

Component	Concentration	Range
sulfuric acid	65-87%	
silver nitrate	<1%	
mercuric sulfate	<1%	
potassium dichromate	<1%	

Total 100%

Basis for Information: Chemical Analysis (see attached test results)

☒ User Knowledge (Attach Supporting Documents such as MSDS)

Generator Certification: I Cindy Ledbetter 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. All known or suspected hazards have been disclosed.

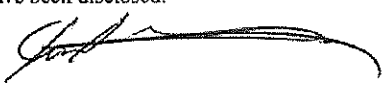
Signature:

Date: 10/22/2015

Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials:

HAZARDOUS WASTE PROFILE SHEET			
Accumulation Start Date: 06/03/2016		Profile No. WP160603	
Generator Name: Jo Heuschele		Title: Scientist	
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160			
Generator USEPA ID No.: ARR000011940			
Name of Waste: HPLC WASTE			
EPA Waste Code: U003			
Process Generating Waste: Laboratory Experiment			
Amount: 40 Liters , 88 bs		Mode of Collection: Used Chemical	
Characteristics: (Check all that apply)		Material Composition	
☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste
		Component	Concentration
		Acetonitrile	20%
		Trifluoroacetic acid	0.01%
		Sodium(meta)arsenite	<1.0ppm
		water	balance
		Total 100%	
Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)			
Generator Certification: I <u>Jo Heuschele</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. All known or suspected hazards have been disclosed.			
Signature: 		Date: 6/3/2016	
Waste Transport Date:			
Shipping Manifest Number:			
Hazardous Waste Coordinator Initials:			

HAZARDOUS WASTE PROFILE SHEET

Accumulation Start Date: 10/6/2016

Profile No. WP1610-01

Generator Name: Bart Green

Title: Scientist

Facility Address: SNARC 2955 HWY 130 E, Stuttgart, AR 72160

Generator USEPA ID No.: ARR000011932

Name of Waste: Chloroform/Methanol 2:1

EPA Waste Code: U044, U154

Process Generating Waste: Chlorophyll Extraction

Amount: 1X4L AG

Mode of Collection: Used laboratory chemical

Characteristics: (Check all that apply)

☐	Solid	☒	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☒	Toxicity
☐		☒	Listed Waste

Material Composition

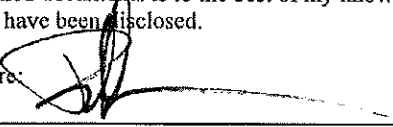
Component	Concentration	Range
Chloroform	66%	5%
Methanol	33%	5%

Total 100%

Basis for Information: ☐ Chemical Analysis (see attached test results)

☒ User Knowledge (Attach Supporting Documents such as MSDS)

Generator Certification: I Bart Green 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. All known or suspected hazards have been disclosed.

Signature: 

Date: 10/6/2016

Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials:

HAZARDOUS WASTE PROFILE SHEET

Accumulation Start Date: ~~06/03/2016~~ 9/22/16 Profile No. WP160901

Generator Name: Troy Bader

Title: BST

Facility Address: SNARC 2955 HWY 130 E, Stuttgart, AR 72160

Generator USEPA ID No.: ARR000011932

Name of Waste: Florocol

EPA Waste Code: NA

Process Generating Waste: unused chemical/drug

Amount: 2lbs foil bag

Mode of Collection: Used

Characteristics: (Check all that apply)

Material Composition

☒	Solid	☐	Ignitable
☐	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste

Component	Concentration	Range
florfnicol	50-60%	
Lactose	40-50%	
Povidone	1-10%	
water	balance	

Total 100%

Basis for Information: ☐ Chemical Analysis (see attached test results)
☒ User Knowledge (Attach Supporting Documents such as MSDS)Generator Certification: I Troy Bader 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. All known or suspected hazards have been disclosed.Signature: 

Date: 9/22/2016

Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials:

Appendix 4

Hazardous Waste Manifest

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number	
			1		007699874 FLE	
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)				
Generator's Phone:						
6. Transporter 1 Company Name		U.S. EPA ID Number				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address		U.S. EPA ID Number				
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
1	Waste: Toxic Liquid, inorganic, n.o.s., (Orbitol, Amine), 6.1, PG-II	02	DR	110	CS	10005 10007 10009
2	Waste: Oxidizing Liquid, n.o.s., (Tricloroethylene, Nitro Nitrate), 5.1, PG-II	1	DR	55	CS	10003 10001 10004
3	Waste: Flammable Liquid, n.o.s., (Hexane, Methyl), 3, PG-II	04	DR	170	CS	10001 10003
4	Waste: Corrosive Liquid, acidic, inorganic, n.o.s., (Hydrochloric Acid, Nitric Acid), 3, PG-II	1	DR	55	CS	10001
14. Special Handling Instructions and Additional Information						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name		Signature		Month Day Year		
Saul Ledbetter		[Signature]		9 2 14		
16. International Shipments		☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: Date leaving U.S.:		
Transporter signature (for exports only):						
17. Transporter Acknowledgment of Receipt of Materials		Signature		Month Day Year		
Transporter 1 Printed/Typed Name		Signature		Month Day Year		
Daniel Murphy		[Signature]		9 2 14		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy		18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection				
18b. Alternate Facility (or Generator)		U.S. EPA ID Number				
Facility's Phone:		Month Day Year				
18c. Signature of Alternate Facility (or Generator)		Month Day Year				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. None		2. None		3. None		4. None
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name		Signature		Month Day Year		
[Signature]		[Signature]		9 22 14		

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number ARROCCY11940	22. Page 21	23. Manifest Tracking Number 007699874FLE		
24. Generator's Name USDA - Shittgart						
25. Transporter _____ Company Name				U.S. EPA ID Number		
26. Transporter _____ Company Name				U.S. EPA ID Number		
27a. HM	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit WL/Vol.	31. Waste Codes
		No.	Type			
X	UN3265, Waste Corrosive Liquid, acidic, organic, A.O.S., (Lactic Acid, Tricetic Acid), 8, PG-II	02	DF	60	G	D002
X	UN3266, Waste Corrosive Liquid, basic, inorganic, A.O.S., (Ammonium Hydroxide, Potassium Hydroxide), 8, PG-II	01	DF	55	G	D002 D005
X	UN3082, Hazardous Waste, liquid, A.O.S., (Bifenolate, Cupric Sulfate), 9, PG-II	01	DF	30	G	
X	UN1790, Waste Hydrofluoric Acid, 8, PG-II Waste Hydrofluoric Acid, 8, PG-II	01	DF	05	G	D002
X	UN1341, Waste Trinitrophenol, wetted, 1, PG-I	01	DF	05	G	D001
X	RQ, UN2809, Waste Mercury, 8 (C.I.), PG-III	01	DF	05	G	D009
X	UN2024, Waste Mercury (compound), liquid, A.O.S., (Nessler's Reagent), 1, C.I., PG-III	01	DF	05	G	D009
X	UN2920, Waste Corrosive Liquids, Flammable, A.O.S., (Acetic Acid Glacial, Trichloroacetic Acid), 3(3), PG-II	02	DF	10	G	D002 D001
X	UN2056, Waste Tetrahydrofuran, 3, PG-II	01	DF	30	G	D001
X	UN2714, Waste Flammable Liquids, Corrosive, A.O.S., (Chloramine-T, Triethylamine), 3(8), PG-II	01	DF	55	G	D001 D002
32. Special Handling Instructions and Additional Information 5.LCCRC 8.LCCRA 11.LCHG1 14.LCCRD 6.LCCRB 9.LCCRD 12.LCCRC 7.LCCRC 10.LCHG2 13.LCCRD						
33. Transporter _____ Acknowledgment of Receipt of Materials Printed/Typed Name Signature Month Day Year						
34. Transporter _____ Acknowledgment of Receipt of Materials Printed/Typed Name Signature Month Day Year						
35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
11040 11040 11040 11040 11040						
11141 11141 11040 11040 11040						

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number ARR000011910	22. Page 21	23. Manifest Tracking Number 10.7649576 FIE		
24. Generator's Name USA - Stuttgart						
25. Transporter _____ Company Name				U.S. EPA ID Number		
26. Transporter _____ Company Name				U.S. EPA ID Number		
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
		No.	Type			
X	UN1992, Waste Flammable Liquids, toxic, n.o.s., (Methanol, Acetone), 3, (6.1), PG-II	01	DF	30	G	Ex 01
X	UN1950, Aerosols, Flammable, 2.1	01	DF	05	G	
X	UN1263, Waste Paint Related Materials, Flammable, 3, PG-II	04	DF	220	G	Ex 01
X	UN1773, Waste Perchloric Acid, 5.1, (8), PG-III, IV NEDA Class 2 RC	01	DF	05	G	Ex 03
X	UN1992, Waste Flammable Liquids, toxic, n.o.s., (Methanol, Acetone), 3, (6.1), PG-II (DID NOT SHIP)		DF		G	Ex 01
X	UN2025, Waste Mercury Compound, n.o.s., (Mercury(II) Oxide), 6.1, PG-II	01	DF	05	G	Ex 02, Ex 03, Ex 04
X	UN1992, Waste Flammable Liquids, toxic, n.o.s., (Methanol, Acetone), 3, (6.1), PG-II Non Regulated Material	03	DF	140	G	
X	UN1204, Waste Perchloric Acid, 5.1, (8), PG-II	01	DM	55	G	Ex 01
32. Special Handling Instructions and Additional Information 15. LCCR 16. LCCR 17. LCCR 18. LCCR 19. LCCR 20. LCCR 21. LCCR						
33. Transporter _____ Acknowledgment of Receipt of Materials Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____						
34. Transporter _____ Acknowledgment of Receipt of Materials Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____						
35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
15. H040 16. H040 17. H040 18. H040 19. H040 20. H040 21. H040 22. H040						

Appendix 5

Certificate of Recycling (Batteries)

EASYPAK

Recycling Made Easy



800-909-9709

www.lamprecycling.com

CERTIFICATE OF RECYCLING

This certifies that the items/wastes listed below were received for recycling/processing by URT, TX and the transportation, receipt, storage, and processing methods employed are in accordance with local destination facility permit parameters, the Toxic Substances Control Act, The Resource Conservation and Recovery Act, the Hazardous Materials Transportation Act, the Occupational Health and Safety Act, and all applicable federal, state, and local laws.

Items Received

DESCRIPTION	QUANTITY
EasyPak™ Battery Recycling Container	1

Certificate Issued to:

Organization: USDA ARS SNARC

Address: 2955 Hwy 130 East

City, State, Zip: Almyra, AR, 72003

Per our contract with aforementioned destination facility,
the above materials have been received for recycling/processing on date noted below.

Air Cycle Corporation

President

Title

7/6/2017

Date

1Z61R5A19051140531

CERTIFICATE NUMBER

Appendix 6

Waste Oil Shipment Document

Universal Environmental Services, LLC

Tel: 770-486-8816 Toll Free: 800-988-7977

USDA Agriculture Research Serv

Customer code: USD295

Location code: 295

2955 Hwy.130 East

Stuttgart, AR 72160 1-870-672-8255

Transaction ID: TX-0946-032217-0000

Date: 2017-03-22 10:24

UES - West Memphis Arkansas

EPA: ARD983272568

Transporter EPA ID: #GAR000020131

Service performed: Oily Water

Component: Oily Water Collection

Amount: 0.000 Gallon at \$1.000/GAL

Service performed: Used oil

Component: Used Oil

Amount: 270.000 Gallon

Service performed: Used oil

Component: Truck Charge for Used Oil Service

Amount: 1.000 Each at \$30.000/EA

Driver: Matthew Penna

PO Number:

Charge to customer (Spot Collect)

Reference #: 1014

Method: CHECK

