

**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:	Harry K. Dupree Stuttgart National Aquaculture 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:	ARR000011940		
Identification/Permit Number:	AR0049352		
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 - Harry K. Dupree Stuttgart National Aquaculture Research Center (Aquaculture Research Center) located at 2955 Highway 130 East, Stuttgart AR 72160, at approximately 10:50 am on July 24, 2017, 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 facility was chosen to determine compliance with the Resource Conservation and Recovery Act (RCRA). Data from 2012 stated that the facility was operating as a Conditionally Exempt Small Quantity Generator (CESQG); however, the amount of P-listed waste being stored and/or disposed of would have changed the generator status to a large quantity generator (LQG).

FACILITY DESCRIPTION

The Aquaculture Research Center conducts aquaculture research to address the needs of the United States aquaculture industry. The Center's research program is composed of in-house research projects that focus primarily on Freshwater Systems Production Research, including development of feeds and improved culture strategies for warm water fish species; and, Disease Therapeutics Evaluation and Control Research for warm water fish species. The facility focuses on characterization of genetic variation of fish, resistance to and control of disease, methods to treat bacterial and fungal diseases, strategies to improve production, refinement of nutrient requirements, evaluating alternate sources of protein, and the development of practical feed formulas. (Photograph 1)

Section II – OBSERVATIONS

The facility physical review consisted of multiple locations: Fish research labs, hazardous waste collection areas, satellite accumulation points (SAPs), and Universal Waste areas.

Laboratories

The Aquaculture Production Water Quality Laboratory was evaluated during this inspection. Numerous holding tanks of freshwater fish in various stages of observation were observed by the inspectors. The facility has authorization to discharge the wastewater from the fish research lab into the sewer system under the National Pollutant Discharge Elimination System (NPDES) and the Arkansas Water and Air Pollution Control Act. (Appendix 6)

Satellite Accumulation Points (SAPs)

Two (2) SAPs were observed in the laboratory areas. SAP #1 (L132) contained the chemical acetonitrile that is used for high performance liquid chromatography (HPLC) analysis and the

facility currently generates six (6) liters per year. (Photograph 2) Chloroform (33%) and methanol (33%) for lipid extraction is also stored in this area. Two (2) liters of each chemical are generated each year.

SAP #2 (L118) contains SPANDS accuvac Reagent hydrochloric acid and sodium arsenite that is used for fluoride analysis. The facility is storing but no longer generating the waste. (Photograph 3)

Mr. Ledbetter stated that L11 is not a SAP or point of generation; rather, it is a storage area for chemical product/inventory for lab use. Biological hazardous waste was also observed in this area. (Photograph 4)

Universal Waste

An open box of fluorescent bulbs was observed in the waste storage room. The inspector informed Mr. Ledbetter that the box must be closed and labeled. (Photograph 8) After the inspection, Mr. Ledbetter provided a photograph, electronically, of the fluorescent bulbs in a closed container with labels indicating it is universal waste for disposal. (Photograph 9)

Two (2) containers of dry cell batteries were observed. The containers were labeled properly. (Photograph 5) A copy of the certification to recycle is located in Appendix 7.

Used oil is stored in a 270-gallon tank located outside of the Aquaculture Research Center. (Photograph 7). The used oil is collected from tractors and vehicles used by and belonging to this facility and the Dale Bumpers National Rice Research Center. The last shipment was on March 27, 2016. (Appendix 8).

Waste Disposal

The most recent hazardous waste shipment from this facility was on September 2, 2014. Hazardous waste from this facility was combined (mixed) with the hazardous waste from the Rice 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 5)

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 3)
 - 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 checked. 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

- Universal waste (fluorescent bulbs) were stored in an open container. A photograph indicating that this discrepancy has been corrected was provided electronically after the inspection.
- Manifest is missing hazardous waste codes.
- Numerous hazardous waste determinations are incorrect on the Hazardous Waste Profile Sheets.
- Hazardous waste from the Rice 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

Aquaculture 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	Notice of Registration (ADEQ)
5	Manifest
6	NPDES Permit
7	Certificate of Recycling (Batteries)
8	Waste Oil Receipt
9	Opening/Closing Conference Sign-in Sheet

Appendix 1 Photographic Log



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log
Photo no. 1

Location: USDA – Harry K. Dupree Stuttgart National Aquaculture Research Center (SNARC)

City: Stuttgart

County: Arkansas

State: AR



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

Description: Entrance to SNARC facility.

Photograph Log

Photo no. 2

Location: USDA – Harry K. Dupree Stuttgart National Aquaculture Research Center (SNARC)

City: Stuttgart

County: Arkansas

State: AR



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

Description: SAP #1 (L132). Acetonitrile for HPLC analysis, Chloroform (33%, and methanol (33%) for lipid extraction.

Photograph Log

Photo no. 3

Location: USDA – Harry K. Dupree Stuttgart National Aquaculture Research Center (SNARC)

City: Stuttgart

County: Arkansas

State: AR



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

Description: SAP #2 (L118). Trizole, chloroform used for DNA extraction. SPANDS accuvac Reagent hydrochloric acid, sodium Arsenite that is used for fluoride analysis. The facility no longer generates this waste but is storing it in this location.

Photograph Log

Photo no. 4

Location: USDA – Harry K. Dupree Stuttgart National Aquaculture Research Center (SNARC)

City: Stuttgart

County: Arkansas

State: AR



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

Description: Storage (L11). Chemical product/inventory for lab use, not a point of generation.

Photograph Log

Photo no. 5

Location: USDA – Harry K. Dupree Stuttgart National Aquaculture Research Center (SNARC)

City: Stuttgart

County: Arkansas

State: AR



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

Description: Dry cell batteries for disposal

Photograph Log

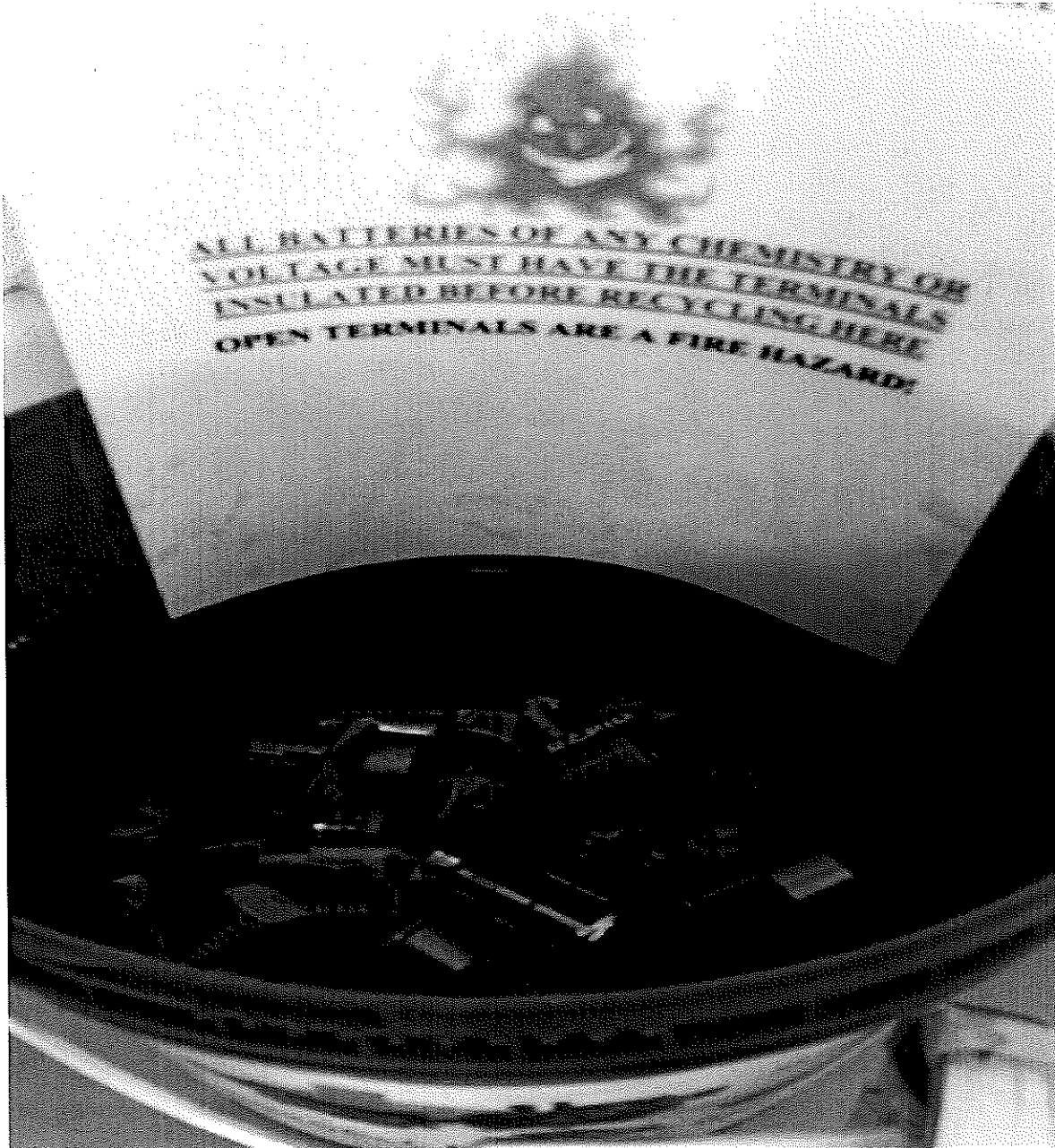
Photo no. 6

Location: USDA – Harry K. Dupree Stuttgart National Aquaculture Research Center (SNARC)

City: Stuttgart

County: Arkansas

State: AR



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

Description: Contents of battery storage container.

Photograph Log

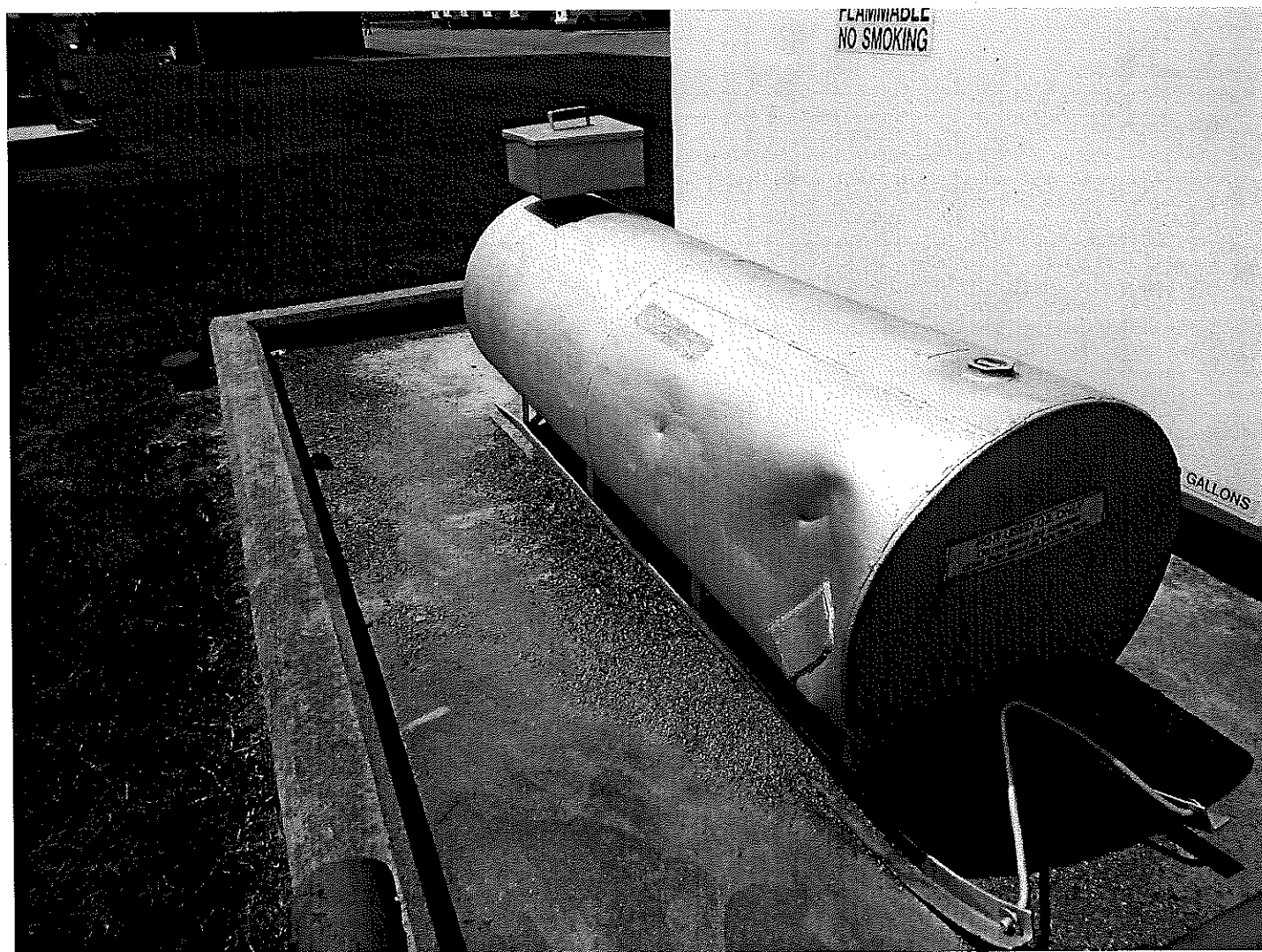
Photo no. 7

Location: USDA – Harry K. Dupree Stuttgart National Aquaculture Research Center (SNARC)

City: Stuttgart

County: Arkansas

State: AR



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

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

Photograph Log

Photo no. 8

Location: USDA – Harry K. Dupree Stuttgart National Aquaculture Research Center (SNARC)

City: Stuttgart

County: Arkansas

State: AR



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

Description: Open and unlabeled containers of fluorescent bulbs.

Photograph Log

Photo no. 9

Location: USDA – Harry K. Dupree Stuttgart National Aquaculture Research Center (SNARC)

City: Stuttgart

County: Arkansas

State: AR



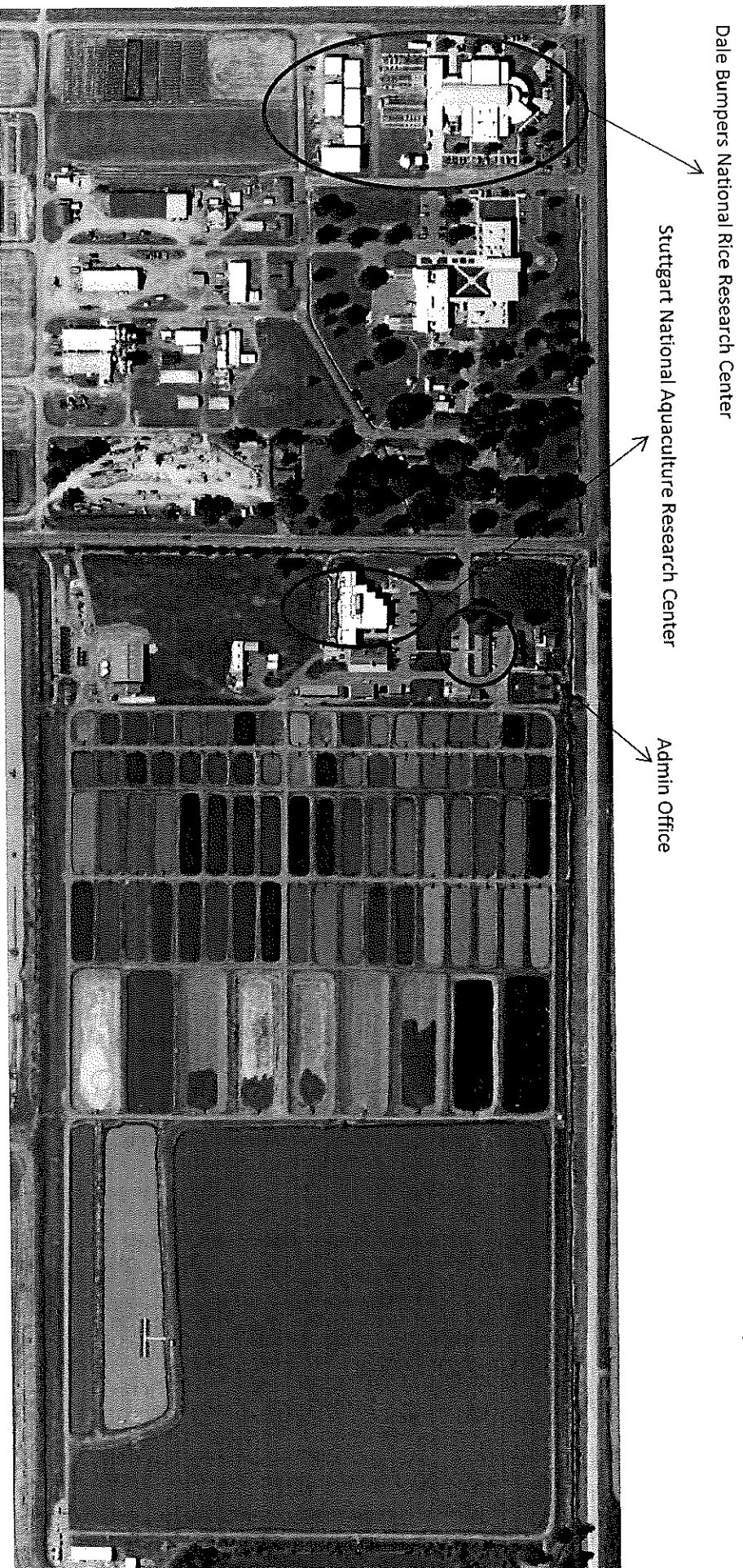
Date of Photo: 07/24/2017 Photographer: Angela Hays

Description: Fluorescent bulbs in closed and labeled containers. Post inspection.

Appendix 2

Map of Facility

USDA ARS Stuttgart Location



Google Maps

Stuttgart National Aquaculture Research Center (SNARC)

Harry K. Dupree Stuttgart National Aquaculture Research Center



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	Lipid analysis	4L/yr.	Generating
DBNRRC	L1	Hexanes 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	Material Composition <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 33%;">Component</th> <th style="width: 33%;">Concentration</th> <th style="width: 34%;">Range</th> </tr> </thead> <tbody> <tr> <td>Mercury</td> <td>1ml Each</td> <td>0.5-2ml</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td colspan="3" style="text-align: center;">Total 100%</td> </tr> </tbody> </table>		Component	Concentration	Range	Mercury	1ml Each	0.5-2ml										Total 100%		
☒	Solid	☐	Ignitable																																						
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☐	Gas	☐	Corrosive Characteristic																																						
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☐		☐	Listed Waste																																						
Component	Concentration	Range																																							
Mercury	1ml Each	0.5-2ml																																							
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: 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)

Material Composition

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

Component	Concentration	Range
formaldehyde	37%	10%
Total 100%		

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

 x 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

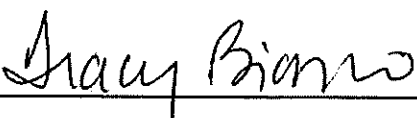
Date:

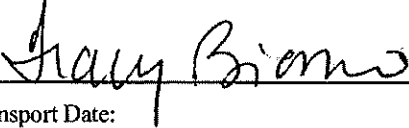
12/8/2014

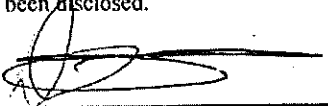
Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials: JFL

HAZARDOUS WASTE PROFILE SHEET																																												
Accumulation Start Date: 12/8/2014		Profile No. 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%		
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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. 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 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 40%;">Component</th> <th style="width: 30%;">Concentration</th> <th style="width: 30%;">Range</th> </tr> </thead> <tbody> <tr> <td>guanidinium chloride</td> <td>100%</td> <td>50-100</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr> <td colspan="3" style="text-align: center;">Total 100%</td> </tr> </tbody> </table>		Component	Concentration	Range	guanidinium chloride	100%	50-100													Total 100%		
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guanidinium chloride	100%	50-100																						
Total 100%																								
☐ ☒ ☐ ☐ ☐	Solid Liquid Gas Other	☐ ☐ ☐ ☐ ☐	Ignitable Reactive Corrosive Characteristic Toxicity Listed Waste																					
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: 		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)		Material Composition	
☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste
		Component	Concentration
		Sodium Arsenite	60PPM
		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: 1/8/15	
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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☒	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: 		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. 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																			
<u>Characteristics:</u> (Check all that apply)		<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;">pyrethrins</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	pyrethrins	4%	Na	piperonyl butoxide	16%	NA	petroleum distillants	80%	NA	Total 100%		
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Total 100%																					
☐ Solid	☐ Ignitable																				
☐ Liquid	☐ Reactive																				
☒ Gas	☐ Corrosive Characteristic																				
☐ Other	☐ Toxicity																				
☐	☐ Listed Waste																				
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. 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:



Date:

6-30-2015

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

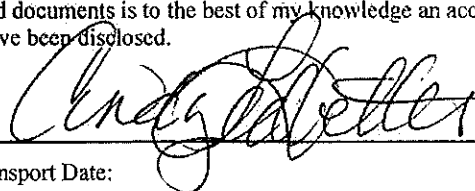
Component	Concentration	Range
sulfuric acid	65-87%	
silver nitrate	<1%	
mercuric sulfate	<1%	
potassium dichromate	<1%	

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:



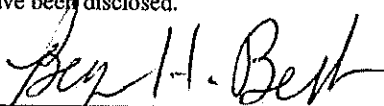
Date:

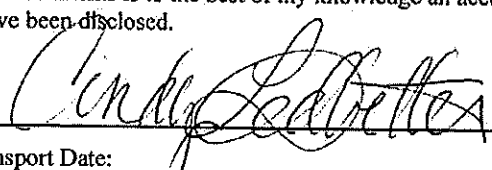
07/02/2015

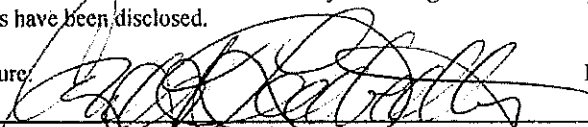
Waste Transport Date:

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																						
<u>Characteristics:</u> (Check all that apply)		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Material Composition</th> </tr> <tr> <th style="width: 33%;">Component</th> <th style="width: 33%;">Concentration</th> <th style="width: 34%;">Range</th> </tr> </thead> <tbody> <tr> <td>5989-27-5</td> <td>98.0</td> <td></td> </tr> <tr> <td>25013-16-5</td> <td>0.24</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td colspan="3" style="text-align: center;">Total 100%</td> </tr> </tbody> </table>		Material Composition			Component	Concentration	Range	5989-27-5	98.0		25013-16-5	0.24								Total 100%		
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☒	Liquid	☐	Reactive																					
☐	Gas	☐	Corrosive Characteristic																					
☐	Other	☐	Toxicity																					
☐		☐	Listed Waste																					
Basis for Information: <u> </u> Chemical Analysis (see attached test results) <u> x </u> User Knowledge (Attach Supporting Documents such as MSDS)																								
Generator Certification: I <u>Benjamin Beck</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: 8 July 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 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 30%;">Component</th> <th style="width: 30%;">Concentration</th> <th style="width: 40%;">Range</th> </tr> </thead> <tbody> <tr> <td>sulfuric acid</td> <td>65-87%</td> <td></td> </tr> <tr> <td>silver nitrate</td> <td><1%</td> <td></td> </tr> <tr> <td>mercuric sulfate</td> <td><1%</td> <td></td> </tr> <tr> <td>potassium dichromate</td> <td><1%</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center;">Total 100%</td> </tr> </tbody> </table>		Component	Concentration	Range	sulfuric acid	65-87%		silver nitrate	<1%		mercuric sulfate	<1%		potassium dichromate	<1%		Total 100%				
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☐	Other	☐	Toxicity																				
☐		☐	Listed Waste																				
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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: 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 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 30%;">Component</th> <th style="width: 30%;">Concentration</th> <th style="width: 40%;">Range</th> </tr> </thead> <tbody> <tr> <td>sulfuric acid</td> <td>65-87%</td> <td></td> </tr> <tr> <td>silver nitrate</td> <td><1%</td> <td></td> </tr> <tr> <td>mercuric sulfate</td> <td><1%</td> <td></td> </tr> <tr> <td>potassium dichromate</td> <td><1%</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center; padding: 5px;">Total 100%</td> </tr> </tbody> </table>		Component	Concentration	Range	sulfuric acid	65-87%		silver nitrate	<1%		mercuric sulfate	<1%		potassium dichromate	<1%		Total 100%		
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☐ ☒ ☐ ☐ ☐	Solid Liquid Gas Other	☐ ☐ ☐ ☐ ☒	Ignitable Reactive Corrosive Characteristic Toxicity Listed Waste																		
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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: 10/22/2015																			
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)

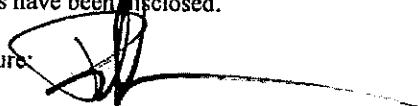
☐	Solid	☒	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☒	Toxicity
☐		☒	Listed Waste

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.

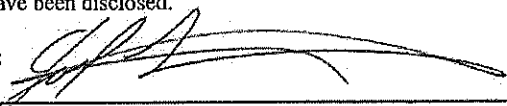
Signature: 

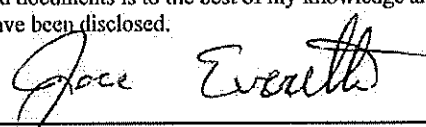
Date: 10/6/2016

Waste Transport Date:

Shipping Manifest Number:

Hazardous Waste Coordinator Initials:

HAZARDOUS WASTE PROFILE SHEET																																									
Accumulation Start Date: 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: 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	Material Composition <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 33%;">Component</th> <th style="width: 33%;">Concentration</th> <th style="width: 34%;">Range</th> </tr> </thead> <tbody> <tr> <td>Mercury</td> <td>1ml Each</td> <td>0.5-2ml</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td colspan="3" style="text-align: center;">Total 100%</td> </tr> </tbody> </table>		Component	Concentration	Range	Mercury	1ml Each	0.5-2ml										Total 100%		
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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: 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;">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 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%		
☒	Solid	☐	Ignitable																																						
☐	Liquid	☐	Reactive																																						
☐	Gas	☐	Corrosive Characteristic																																						
☐	Other	☐	Toxicity																																						
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Material Composition																																									
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N-nitroso-N-methylurea	100	10%																																							
Total 100%																																									
Basis for Information: ☐ Chemical Analysis (see attached test results) ☒ User Knowledge (Attach Supporting Documents such as MSDS)																																									
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

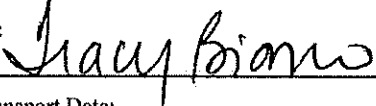
Date:

12/8/2014

Waste Transport Date:

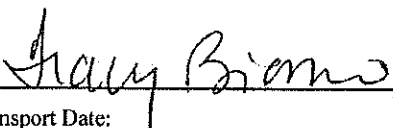
Shipping Manifest Number:

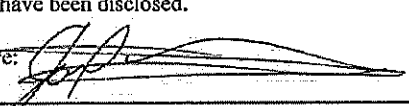
Hazardous Waste Coordinator Initials: JFL

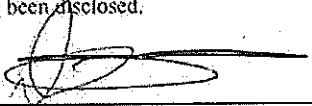
HAZARDOUS WASTE PROFILE SHEET																																									
Accumulation Start Date: 12/8/2014		Profile No. WP15004																																							
Generator Name: Yulin Jia		Title: Scientist																																							
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, 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: 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; 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%		
☐	Solid	☐	Ignitable																																						
☒	Liquid	☐	Reactive																																						
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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: 		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: 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;">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%		
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☒	Liquid	☐	Reactive																																									
☐	Gas	☐	Corrosive Characteristic																																									
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Material Composition																																												
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ethidium bromide	1%	0.5%																																										
Total 100%																																												
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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. 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%;">Component</th> <th style="width: 33%;">Concentration</th> <th style="width: 33%;">Range</th> </tr> </thead> <tbody> <tr> <td>guanidinium chloride</td> <td>50%</td> <td>25-50</td> </tr> <tr> <td>isopropyl alcohol</td> <td>50%</td> <td>25-50</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </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	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:																																												
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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) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 20%;">Solid</td> <td style="width: 5%; text-align: center;">☐</td> <td style="width: 70%;">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;">guanidinium chloride</td> <td style="padding: 5px;">100%</td> <td style="padding: 5px;">50-100</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	guanidinium chloride	100%	50-100										Total 100%		
☐	Solid	☐	Ignitable																																									
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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: 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;">pyrethrins</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	pyrethrins	4%	na	piperonyl butoxide	16%	na	petroleum distillants	80%	na	Total 100%		
☐	Solid	☐	Ignitable																																						
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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: 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 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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Water	Balance																																								
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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: 1/8/15																																							
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)

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

Material Composition

Component	Concentration	Range
acrylamide	3%	20%
N,N'-methylenediacrlaide	1%	20%

Total 100%

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

☒ User Knowledge (Attach Supporting Documents such as MSDS)

Generator Certification: I, Howard Black 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: *Howard I. Black*

Date: *February 13, 2015*

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%		
☒	Solid	☐	Ignitable																																						
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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:		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: 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	Material Composition <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 40%;">Component</th> <th style="width: 30%;">Concentration</th> <th style="width: 30%;">Range</th> </tr> </thead> <tbody> <tr> <td>2mercaptoethanol</td> <td>100%</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td colspan="3" style="text-align: center;">Total 100%</td> </tr> </tbody> </table>		Component	Concentration	Range	2mercaptoethanol	100%											Total 100%		
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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)

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

Material Composition

Component	Concentration	Range
pyrethrins	4%	Na
piperonyl butoxide	16%	NA
petroleum distillants	80%	NA

Total 100%

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

Generator Certification: I, Howard Black, 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:

Howard L. Black

Date:

February 13, 2015

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: 

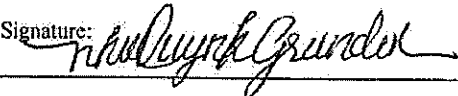
Date:

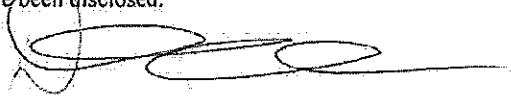
2/23/15

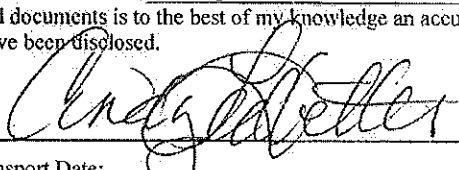
Waste Transport Date:

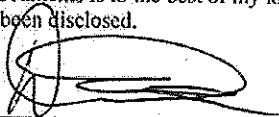
Shipping Manifest Number:

Hazardous Waste Coordinator Initials:

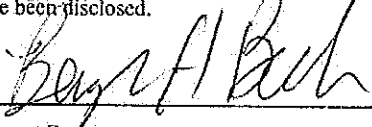
HAZARDOUS WASTE PROFILE SHEET			
Accumulation Start Date: 2/9/2015		Profile No. WP15015	
Generator Name: Quynh Grunden		Title: Scientist	
Facility Address: DBNRRC, 2890 HWY 130 E, Stuttgart, AR 72160			
Generator USEPA ID No.: ARR000011932			
Name of Waste: Avid 0.15C miticide/insecticide			
EPA Waste 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)		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, <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: 		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)		Material Composition	
☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☐	Listed Waste
		Component	Concentration
		Sodium Arsenite	60PPM
		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: 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) <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: 40%;">Component</th> <th style="width: 30%;">Concentration</th> <th style="width: 30%;">Range</th> </tr> </thead> <tbody> <tr> <td>sulfuric acid</td> <td>65-87%</td> <td></td> </tr> <tr> <td>silver nitrate</td> <td><1%</td> <td></td> </tr> <tr> <td>mercuric sulfate</td> <td><1%</td> <td></td> </tr> <tr> <td>potassium dichromate</td> <td><1%</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	sulfuric acid	65-87%		silver nitrate	<1%		mercuric sulfate	<1%		potassium dichromate	<1%		Total 100%		
☐	Solid	☐	Ignitable																																									
☒	Liquid	☐	Reactive																																									
☐	Gas	☐	Corrosive Characteristic																																									
☐	Other	☐	Toxicity																																									
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mercuric sulfate	<1%																																											
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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>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)		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, <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: 7/10/15	
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
		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: <i>Ben H. Beck</i>		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
		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)

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

Material Composition

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:

Cindy Ledbetter

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)

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

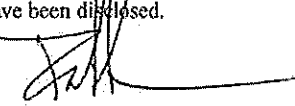
Material Composition

Component	Concentration	Range
Chloroform	66%	10%
Methanol	33%	10%

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

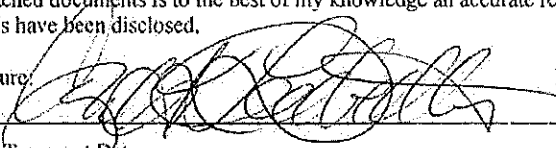
☐	Solid	☐	Ignitable
☒	Liquid	☐	Reactive
☐	Gas	☐	Corrosive Characteristic
☐	Other	☐	Toxicity
☐		☒	Listed Waste

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
		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

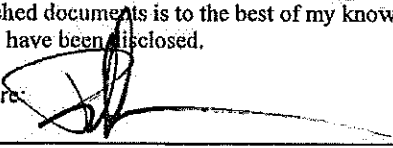
Component	Concentration	Range
Chloroform	66%	5%
Methanol	33%	5%

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)

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

Material Composition

Component	Concentration	Range
florfrnicol	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

Notice of Registration (ADEQ)



View a Site Identification Form

HARRY K DUPREE STUTTGART NAT'L
AQUA.RES.

STUTTGART

ARR000011940

Navigational Shortcuts: [General Information](#) [Reason](#) [Site ID and Name](#) [Location](#) [Land Type](#) [NAICS](#) [Mailing](#) [Contact](#) [Owner and Operator](#) [Waste Activity](#) [Haz. Wastes](#) [Certification](#)

Last Updated By: QZL

Last Updated On: 05/30/2003 02:05:50

General Information

Received Date: *	05/20/2003	Non-notifier:	Select a Non-notifier. ▼	Extract to Public? ☒
Accessibility:	Select an Accessibility. ▼			Send Acknowledgement: ☒

1. Reason for Submittal *

☒	To provide an Initial Notification (first time submitting site identification information / to obtain an EPA ID Number for this location). [Source N]
☐	To provide a Subsequent Notification (to update site identification information for this location). [Source N]
☐	As a component of a First RCRA Hazardous Waste Part A Permit Application. [Source A]
☐	As a component of a Revised RCRA Hazardous Waste Part A Permit Application. [Source A]
☐	As a component of the Hazardous Waste Report. [Source R]
☐	Implementer - Agency that is implementer of Record for Handler. [Source I]
☐	Emergency. [Source E]
☐	Temporary. [Source T]

2. Site ID

EPA ID: *	ARR000011940	Activity Location: *	AR	
-----------	--------------	----------------------	----	--

3. Site Name

Name: *	HARRY K DUPREE STUTTGART NAT'L AQUA.RES.
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4. Site Location (Physical address, not P.O. Box or Route)

Number:	2955			
Street 1: *	HWY 130 E			
Street 2:				
City, Town or Village: *	STUTTGART	County: *	ARKANSAS ▼	
State: *	ARKANSAS ▼	Country: *	UNITED STATES ▼	Zip Code: * 72160
State District:	Northeast ▼			

5. Site Land Type

--

Land Type:	Federal
------------	---------

6. North American Industry Classification System (NAICS) [Hint](#)

NAICS A:	54171 (Primary)	NAICS B:		NAICS C:		NAICS D:	
----------	--------------------	----------	--	----------	--	----------	--

7. Site Mailing Address

Number:					
Street 1:	PO BOX 1050				
Street 2:					
City, Town or Village:	STUTTGART				
State:	ARKANSAS	Country:	UNITED STATES	Zip Code:	72160

8. Site Contact Person

First Name:	DONALD	Middle Initial:	W	Last Name:	FREEMAN
Title:					

8a. Site Contact Address

Number:					
Street 1:	PO BOX 1050				
Street 2:					
City, Town or Village:	STUTTGART				
State:	ARKANSAS	Country:	UNITED STATES	Zip Code:	72160
Email Address:					
Phone Number:	8706734483	Ext:		Fax:	

9. Legal Owner and Operator [Hint](#)

A. Legal Owner Add Delete All Owners						
Seq.	Ind.	Type	Name	Address	Date Became Current	Date Ended Current
1	CO	F	USDA - ARS		10/01/1996	
B. Legal Operator Add Delete All Operators						
Seq.	Ind.	Type	Name	Address	Date Became Current	Date Ended Current
2	CP	F	USDA - ARS		10/01/1996	

10. Type of Federal Regulated Waste Activity

A. Hazardous Waste Activities (Complete all parts 1-7)	
1. Generator of Hazardous Waste (Federal) *	2. Transporter of Hazardous Waste

☐ 3 - Conditionally Exempt SQG v	☐ a. HW Transporter
	☐ b. HW Transfer Facility
Generator of Hazardous Waste (State) *	☐ 3. Treater, Storer, or Disposer of Hazardous Waste Note
☐ N - No separately defined State st... v	☐ 4. Recycler of Hazardous Waste Note
	5. Exempt Boiler and / or Industrial Furnace
Indicate other generator activities (check all that apply).	☐ a. Small Quantity On-site Burner Exemption
☐ d. Short Term Generator Note	☐ b. Smelting, Melting, Refining Furnace Exemption
☐ e. United States Importer of Hazardous Waste	☐ 6. Underground Injection Control
☐ f. Mixed Waste (hazardous and radioactive) Generator	☐ 7. Receives Hazardous Waste from Off-site
B. Universal Waste Activities	C. Used Oil Activities
1. Large Quantity Handler of Universal Waste Note	1. Used Oil Transporter - Indicate types of activities.
Generated Accumulated/Managed	☐ a. Transporter
Batteries ☐	☐ b. Transfer Facility
Lamps ☐	2. Used Oil Processor and / or Re-refiner - Indicate types of activities.
Pesticides ☐	☐ a. Processor
Mercury containing equipment ☐	☐ b. Re-refiner
	☐ 3. Off-Specification Used Oil Burner
☐ 2. Destination Facility for Universal Waste Note	4. Used Oil Fuel Marketer - Indicate types of activities.
	☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
	☐ b. Marketer Who First Claims the Used Oil Meets the Specifications
D. Eligible Academic Entities with Laboratories - Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K. Note	
1. Opting into or currently operating under 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories. Note	
☐ a. College or University	
☐ b. Teaching Hospital that is owned by or has a formal written affiliation agreement with a college or university.	
☐ c. Non-profit institute that is owned by or has a formal written affiliation agreement with a college or university.	
☐ 2. Withdrawing from 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories.	
E. State Activities	
No State Activities Available.	

11. Description of Hazardous Waste Hint						Dropdown Size: 5 v
Type D Select All / Remove All	Type F Select All / Remove All	Type K Select All / Remove All	Type P Select All / Remove All	Type U Select All / Remove All	Type X Select All / Remove All	

D001 D002 ^ D003 D004 D005 D006 D007 D008 D009 v D010	F001 F002 ^ F003 F004 F005 F006 F007 F008 F009 v F010	K001 K002 ^ K003 K004 K005 K006 K007 K008 K009 v K010	LABP P001 ^ P002 P003 P004 P005 P006 P007 P008 v P009	U001 U002 ^ U003 U004 U005 U006 U007 U008 U009 v U010	K172 PCB PCBS UNIV WOIL
Total D Selected: 3	Total F Selected: 0	Total K Selected: 0	Total P Selected: 0	Total U Selected: 1	Total X Selected: 0

12. Notification of Hazardous Secondary Material (HSM) Activity

Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 261.2(a)(ii), 40 CFR 261.4(a)(23),(24), or (25)?

13. Comments [Clear Notes](#)

Chars Remaining 14000

14. Certification[Hint](#) Read the certification.

First Name:	M.I.:	Last Name:	Title:	Date Signed:
DONALD	W	FREEMAN	CTR DIR	05/20/2003

Navigational Shortcuts: [General Information](#) [Reason](#) [Site ID and Name](#) [Location](#) [Land Type](#) [NAICS](#) [Mailing](#) [Contact](#) [Owner and Operator](#) [Waste Activity](#) [Haz. Wastes](#) [Certification](#)[Back to the Handler Main Menu](#)

URL: /rcrainfo/handler/siteidmntn.jsp

Appendix 5 Hazardous Waste Manifest

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 2	3. Emergency Response Phone	4. Manifest Tracking Number 007390874 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:					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
	1.	Waste, Toxic Liquids, inorganic, a.c.s., (Oxalic, Ammonium), 6.1, PGII	02	DR	110
	2.	Waste, Corrosive Liquid, a.c.s., (Mercuric Chloride, Nitric Acid), 8.1, PGII	1	DR	55
	3.	Waste, Flammable Liquids, a.c.s., (Hexanes, Methylcel), 3, PGII	04	DR	170
4.	Waste, Corrosive Liquid, acidic, inorganic, a.c.s., (Hydrochloric Acid, Nitric Acid), 8, PGII	1	DR	55	
13. Waste Codes					
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
16. International Shipments ☐ Import to U.S. ☐ Export from U.S.			Port of entry/exit:		
Transporter signature (for exports only):			Date leaving U.S.:		
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials				
	Transporter 1 Printed/Typed Name	Signature		Month Day Year	
	Transporter 2 Printed/Typed Name	Signature		Month Day Year	
DESIGNATED FACILITY	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:				
	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. 11040		3. 11040	
4. 11040					
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

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number	22. Page	23. Manifest Tracking Number		
		ARR0000011940	21	007699874ELE		
24. Generator's Name USDA - Shihgwt						
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	UN3265, Waste Corrosive Liquid, acidic, organic, A.O.S., (Acetic Acid, Oxalic 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., (Bifluoride, Cupric Sulfate), 9, PG-II	01	DF	30	G	
X	UN1790, 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	RC, UN2809, Waste Mercury, 8 (c.1), PG-III	01	DF	05	G	D009
X	UN2021, Waste Mercury Compound, liquid, A.O.S., (Nessler's Reagent), 8 (c.1), PG-III	01	DF	05	G	D001
X	UN2920, Waste Corrosive Liquids, Flammable, A.O.S., (Acetic Acid Glacial, Trichloroacetic Acid), 8 (3), PG-II	02	DF	10	G	D002, D001
X	UN2056, Waste Tetrahydrofuran, 3, PG-II	01	DF	30	G	D001
X	UN2724, Waste Flammable Liquids, (Chloramine-T, Triethylamine), A.O.S., 3 (3), PG-II	01	DF	55	G	D001, D002
32. Special Handling Instructions and Additional Information 3.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 ARR0000011940	22. Page 21	23. Manifest Tracking Number 06-76-99571: FILE				
24. Generator's Name USA - DuPont								
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	UN1992, Waste Flammable Liquids, toxic, acids, (Methanol, Acetone), 3, (L), PG II	01	DF	30	G	D001		
X	UN1950, Aerosols, Flammable, 2.1	01	DF	05	G			
X	UN1263, Waste Paint Related Materials, Flammable, 3, PG II	04	DF	220	G	D001		
X	UN1573, Waste Peroxide Acid, 5.1, (B), PG II IX	01	DF	05	G	D003		
X	UN1992, Waste Flammable Liquids, acids, (Methanol, Acetone), 3, (L), PG II		DF		G	D001		
X	UN2025, Waste Mercury Compound, n.c.s., (Mercury Hexide Hydride), 6.1, PG III	01	DF	05	G	D007	D019	D011
X	UN1208, Waste Liquids, 3, PG II	03	DF	140	G			
X	UN1208, Waste Liquids, 3, PG II	01	DM	55	G	D001		
32. Special Handling Instructions and Additional Information 15. LCCR D 18. LCCR D 21. LCCR C 16. LCCR R 19. LCCR D 17. LCCR D 20. LCHG 1								
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 6

ADEQ NPDES Permit

Permit Number: AR0049352
AFIN: 01-00135

**AUTHORIZATION TO DISCHARGE WASTEWATER UNDER
THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND
THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT**

In accordance with the provisions of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. 8-4-101 et seq.), and the Clean Water Act (33 U.S.C. § 1251 et seq.),

U.S. Department of Agriculture - Aquaculture Research Service USDA-ARS
Harry K. Dupree Stuttgart National Aquaculture Research Center

is authorized to discharge domestic wastewater, fish tank wastewater, and laboratory wastewater from a facility located as follows: 2955 Hwy 130 East, Stuttgart, AR 72160, at the intersection of state highways 130 and 153 in Arkansas County, Arkansas. The applicant's mailing address is: P.O. Box 1050, Stuttgart, AR 72160.

Latitude: 34° 28' 29.8"; Longitude: 91° 24' 58.3"

to receiving waters named:

an unnamed ditch, thence to the Little Lagrue Bayou, thence to Lagrue Bayou, thence to the White River in Segment 4A of the White River Basin.

The outfall is located at the following coordinates:

Outfall 001: Latitude: 34° 28' 33.23"; Longitude: 91° 24' 40.56"

Discharge shall be in accordance with effluent limitations, monitoring requirements, and other conditions set forth in this permit. Per Part III.D.10, the permittee must re-apply 180 days prior to the expiration date below for permit coverage to continue beyond the expiration date.

Effective Date: July 1, 2016
Expiration Date: June 30, 2021



Caleb J. Osborne
Associate Director, Office of Water Quality
Arkansas Department of Environmental Quality



Issue Date

Appendix 7

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 8

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

Appendix 9
Entrance/Exit Conference Sign-in
Sheet

