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MCL'S Document #

MATERIALS CHARACTERIZATION DATA SHEET
000000 P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 465-3310

MSP CODE: _____

JAN 23 1990

Generator Name USDA AGRICULTURAL RESEARCH CTR
Facility Address 2000 E. ALLEN RD.
City, State, Zip TUCSON, AZ 85719
Technical Contact DEBORAH MARKOTAY
Title PURCHASING AGENT
Telephone NO. 602 670-6481 EXT. N/A
Facility EPA ID # AZ7120590040

Bill To: ZENITECH CORP.
Address: 2030 N. FORBES BLVD., SU. 103
City, State, Zip: TUCSON, AZ 85745
Telephone #: (602) 798-1466
Company Contact: MATT STINCHFIELD
Container Size: 5 GALLON POLY PAIL
EPA Waste No. NONE
Generating Process DISPOSAL OF UNWANTED LAB CHEMICALS
Common Name of Waste OLD LAB CHEMICALS, DRUM 01
Rate of Generation 5 GAL PER YEAR
Volume in Storage 5 GAL IN 5 GAL POLY

Is Waste DOT Hazardous XX YES I NO
Proper DOT Shipping Name WASTE OXIDIZER, NOS
Hazard Class OXID. ID No. UN 1479
Transportation Equipment EPA/DOT PERMITTED BOX VAN
Placarding PER LOAD REQUIREMENTS

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

LIQUID LAB CHEMICALS (ZERO #)	0
SOLID LAB CHEMICALS (2.25 #)	24
VERMICULITE ABSORB. (7.0 #)	76
DEBRIS, GLOVES, PLASTIC (0 #)	0

* PLEASE SEE ATTACHED INVENTORY *

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	NONE	Silver (Ag)	NONE
Barium (Ba)	NONE	Copper (Cu)	NONE
Cadmium (Cd)	NONE	Nickel (Ni)	NONE
Chromium (Cr)	NONE	Zinc (Zn)	NONE
Lead (Pb)	NONE		
Mercury (Hg)	NONE		
Selenium (Se)	NONE		

INORGANICS (mg/l or ppm)

Total CN	NONE	Iodine	NONE
Free CN	NONE	Asbestos	NONE
Sulfide	NONE	Iodide	NONE
Chloride	NONE	Fluoride	NONE
Bisulfite	NONE		
Sulfite	NONE		
Sulfate	NONE		
Phosphate	NONE		
Fluorine	NONE		
Bromine	NONE		
Chlorine	NONE		

ORGANICS (mg/l or ppm)

Endrin	NONE	Organohalide	NONE
Methoxychlor	NONE	Mercaptans	NONE
Triphenyl	NONE		
2,4-D	NONE		
2,4,5-T	NONE		
Phenolics	NONE		
PCBs	NONE		
Dioxin	NONE		
TOC	NONE		

** Amount shown is prorated for entire container weight. See inventory.

CERTIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 2-27-89

GENERATOR'S SIGNATURE: Deborah Markotay

MSP FORM 1040 (REV. 11/88)

PHYSICAL DESCRIPTION

Physical State I Liquid I Semi-solid XX Solid
Phases/Layering I Uni-Layer I Bilayer XX Multilayer
Viscosity XX High I Medium I Low
Type of Solids I Organic XX Inorganic I Mixed
Total Solids (wt. %) 100% Suspended Solids (wt. %) 100%
BTU/L 1000 % Ash Content <5% % Water (by weight) <2%
Flash Point (°F) NONE Type _____
Specific Gravity VARIES BETWEEN 0.8 - 1.2 FOR LIQUIDS
Boiling Point, (°C) >250°C Freezing Point, (°C) <10° C
Vapor Pressure (mm Hg @ 24°C) NONE
pH (Avg) 6.0 (Range) 4.5 to 8.0
Total Alkalinity/Acidity (%) NONE
Odor VARIES
Color VARIES

HAZARDOUS PROPERTIES

<u>I</u> Water Reactive	<u>I</u> Reactive	<u>I</u> NONE
<u>I</u> Shock Sensitive	<u>I</u> Pyrophoric	<u>I</u> Explosive
<u>I</u> Radioactive	<u>I</u> Pesticide Residuals	<u>I</u> Polymerizable
<u>I</u> Corrosive	<u>I</u> Toxic Vapor	<u>I</u> Ignitable
<u>I</u> Biological	<u>I</u> Etiological	<u>I</u> Pathogen

XX Other OXIDIZING AGENTS

REQUIRED PERSONNEL PROTECTIVE

EQUIPMENT AND PROCEDURES:
WEAR APPROPRIATE BOOTS, GLOVES, AND EYE PROTECTION. AVOID CONTACT WITH MATERIAL.
KEEP AWAY FROM COMBUSTIBLE MATERIALS.

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

DOT LAD PACK INVENTORY

GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/28/1989
2000 E. ALLEN RD.
 GENERATOR LOCATION: TUCSON, AZ 85719 GENERATOR EPA ID: AZ7120590040
 LAD PACK CONTAINER NO: 01 PAGE one OF one
 DOT DESCRIPTION: WASTE OXIDIZER, NOS, OXID. UN/NA NO: UN 1479
 (Circle One)
 CONTAINER SIZE: 5 GAL CONTAINER TYPE: POLY
 (30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Ammonium nitrate	1 lb.		oxidizer	UN 1479	NOT LISTED
02	subaltonus nitrate	1 lb.		not listed	NOT LISTED	"
03	potassium iodate	1/4 lb.		not listed	"	"
04						
05	VERMICULITE					
06	ABSORBANT	7	POUNDS			
07						
08	TOTAL SOLIDS	2 1/4	POUNDS			
09	NO LIQUIDS					
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF USDA AGRICULTURAL RESEARCH SERVICE
 I HEREBY CERTIFY THAT THE LAD PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAD PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAD PACK GUIDELINES.

1. Deborah Lynn Markotay 2. 11-27-89
 SIGNATURE DATE
 3. Deborah Lynn Markotay 4. Purchasing Agent
 NAME (Type or Print) TITLE

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1990
MARINE SHALE PROCESSORS, INC.
MATERIALS CHARACTERIZATION DATA SHEET
P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 465-3310
MSP CODE: 9000381

Generator Name USDA AGRICULTURAL RESEARCH CENTER
Facility Address 2000 EAST ALLEN RD.
City, State, Zip TUCSON, AZ 85719
Technical Contact MS. DEBORAH MARKOTAY
Title PURCHASING AGENT
Telephone NO. (602) 670-6481 EXT. _____
Facility EPA ID # AZ7120590040

Ship To: ZENITECH CORP.
Address: 2030 N. FORBES BLVD., SUITE 103
City, State, Zip: TUCSON, AZ 85745
Telephone #: (602) 798-1466
Company Contact: MAIT' STINCHFIELD
Container Size: 5 & 30 GAL. DR (DIA. 19")
EPA Waste No. D001, U188, P098, P106

CHEMICAL COMPOSITION (No Trade Name)
(Totals must add up to 100%)
LAB PACKS, SEE INVENTORIES

Generating Process DISPOSAL OF UNWANTED LAB CHEMICALS
Common Name of Waste OLD LAB CHEMICALS
Rate of Generation 65 GAL PER YEAR
Volume in Storage 65 GAL IN 5 & 30 GAL DR
Is Waste DOT Hazardous YES YES | NO
Proper DOT Shipping Name VARIES
Hazard Class VARIES No. VARIES
Transportation Equipment EPA/DOT PERMITTED BOX VAN
Packaging PER LOAD REQUIREMENTS

METALS (EP Toxicity Test, mg/l) VARIES
Arsenic (As) _____ Silver (Ag) _____
Barium (Ba) _____ Copper (Cu) _____
Cadmium (Cd) _____ Nickel (Ni) _____
Chromium (Cr) _____ Zinc (Zn) _____
Lead (Pb) _____
Mercury (Hg) _____
Selenium (Se) _____

PHYSICAL DESCRIPTION
Physical State 1 Liquid 1 Semi-solid XXX Solid
Phases/Layering 1 Uni-Layer 1 Bilayer XXX Multilayer
Viscosity XX High 1 Medium 1 Low
Type of Solids 1 Organic 1 Inorganic XXX Mixed
Total Solids (wt. %) 80+% Suspended Solids (wt. %) 80+%
BTU/lb 200 % Ash Content 5% % Water (by weight) 5%
Flash Point (°F) VARIES Type _____
Specific Gravity VARIES
Boiling Point, (°C) VARIES Freezing Point, (°C) VARIES
Vapor Pressure (mm Hg @ 24°C) VARIES
pH (Avg) 7.0 (Range) 6.0 to 8.5
Total Alkalinity/Acidity (%) NONE
Odor VARIES
Color VARIES

INORGANICS (mg/l or ppm) VARIES
Total CN _____ Iodine _____
Free CN _____ Asbestos _____
Sulfide _____
Chloride _____
Bisulfite _____
Sulfite _____
Sulfate _____
Phosphate _____
Fluorine _____
Bromine _____
Chlorine _____

HAZARDOUS PROPERTIES
1 Water Reactive 1 Reactive 1 Explosive
1 Shock Sensitive 1 Pyrophoric 1 Polymerizable
1 Radioactive XX Pesticide Residuals XX Ignitable
1 Corrosive 1 Toxic Vapor 1 Pathogen
1 Biological 1 Etiological
1 Other _____

ORGANICS (mg/l or ppm) VARIES
Endrin _____ Organohalide _____
Methoxychlor _____ Mercaptans _____
Toxaphene _____
2, 4-D _____
2, 4, 5-T _____
Phenolics _____
PCBs _____
Dioxin _____
TOC _____

REQUIRED PERSONNEL PROTECTIVE
EQUIPMENT AND PROCEDURES:
WEAR APPROPRIATE BOOTS, GLOVES, AND EYE
PROTECTION. AVOID CONTACT WITH MATERIAL.

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC
SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDI-
TIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 1/27/90 GENERATOR'S SIGNATURE: Deborah Markotay
MSP FORM 1040 (REV. FEB 88)



United States
Department of
Agriculture

Agricultural
Research
Service

Pacific West Area

Administrative Office
2000 East Allen Road
Tucson, Arizona 85719

February 9, 1990

Ms. Anna H. Spitz, Manager
Environmental Sciences
ZENITECH CORPORATION
2030 N. Forbes Blvd., Suite 103
Tucson, AZ 85745

Dear Ms. Spitz:

I am the Administrative Officer of the Agricultural Research Service Tucson Location and, as such, have the authority to sign as generator for USDA. Deborah Markotay, Purchasing Agent, also has authority to sign for USDA. I signed the disposal application that went to MSP while she was on leave. Thank you for your assistance in this matter.

Sincerely,

Clarine G. Buck

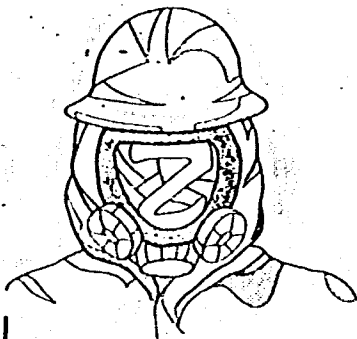
CLARINE G. BUCK
Administrative Officer

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ZENITECH CORP

January 26, 1990

Marine Shale Processors, Inc.
110 James Drive West
Suite 120
Saint Rose, LA 70087
Attn: Mr. Brian Prince

Re: MSP waste code 9000381

Dear Brian:

Enclosed please find the revised materials characterization sheet and inventories for three lab packs from the Bee Research Lab in Tucson, Arizona. I have made the corrections which you specified, and we have removed the one pound of ammonium nitrate from drum number 01 as you specified.

We are readying the waste for shipment and our staff will be in contact with the facility regarding logistics. We would like to be billed for the disposal services, so please send us the appropriate paperwork to open an account.

Thank you for your help in these matters. Please contact me if I can be of any further assistance.

Sincerely,

Matt Stinchfield
Senior Scientist

encl.

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GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/28/1989
 2000 E. ALLEN RD.
 GENERATOR LOCATION: TUCSON, AZ 85719 GENERATOR EPA ID: AZ7120590040
 LAB PACK CONTAINER NO: 01 PAGE one OF one
 DOT DESCRIPTION: WASTE OXIDIZER, NOS, OXID. UN/NA NO: UN 1479
 (Circle One)
 CONTAINER SIZE: 5 GAL CONTAINER TYPE: POLY
 (30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	potassium iodate	1/4 lb.		not listed	NOT LISTED	0001
02	calcium nitrate	1 lb.		not listed	NOT LISTED	0001
03						
04						
05	VERMICULITE					
06	ABSORBANT	7	POUNDS			
07						
08	TOTAL SOLIDS	1 1/4	POUNDS			
09	NO LIQUIDS					
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF ZENITECH CORP.
 I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [Signature] 2. JANUARY 26, 1990
 SIGNATURE DATE
 3. MATT STINCHFIELD 4. SENIOR SCIENTIST
 NAME (Type or Print) TITLE

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0828

DOT LAB PACK INVENTORY

GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/28/1989
 GENERATOR LOCATION: 2000 E. ALLEN RD. GENERATOR EPA ID: AZ7120590040
TUCSON, AZ 85719
 LAB PACK CONTAINER NO: -02 PAGE ONE OF FOUR
 DOT DESCRIPTION: WASTE POISONOUS SOLID, NOS, UN/NA NO: UN 2811
POISON B (Circle One)
 CONTAINER SIZE: 30 GAL. CONTAINER TYPE: FIBER
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	sodium borate	1 lb.		not listed	-	NOT LISTED
02	sodium molybdate	1 lb.		"	-	"
03	potassium carbonate	1 lb.		"	-	"
04	sodium citrate	1 lb.		"	-	"
05	potassium acetate	1 lb.		"	-	"
06	vanadium chloride	1 oz.		"	-	"
07	zinc chloride	1 lb.		"	-	"
08	calcium acetate	1 lb.		"	-	"
09	aluminum potassium sulfate	1 lb.		"	-	"
10	molybdic acid	1 lb.		"	-	"
11	sodium salicylate	1 lb.		"	-	"
12	sodium iodide	2 oz.		"	-	"
13	sodium carbonate	1 lb.		"	-	"
14	ferrous sulfate	1 lb.		"	-	"
15	potassium sodium tetrata	2 @ 1 lb.		"	-	"
16	sodium sulfate	1 lb.		"	-	"

I AM AN AUTHORIZED EMPLOYEE OF ZENITECH CORP.
 I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [Signature] 2. JANUARY 26, 1990
 SIGNATURE DATE
 3. MATT STINCHFIELD 4. SENIOR SCIENTIST
 NAME (Type or Print) TITLE

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GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/28/1989
 GENERATOR LOCATION: 2000 E. ALLEN RD. GENERATOR EPA ID: AZ7120590040
TUCSON, AZ 85719
 LAB PACK CONTAINER NO: -02 PAGE TWO OF FOUR
 DOT DESCRIPTION: WASTE POISONOUS SOLID, NOS. UN/NA NO: UN 2811
POISON B (Circle One)
 CONTAINER SIZE: 30 GAL. CONTAINER TYPE: FIBER
 (30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	ammonium sulfate	1 lb.		not listed	—	NOT LISTED
02	magnesium chloride	1/2 lb.		"	—	"
03	0.1% copper sulfate	1 pt.		POIS. B	UN 2775	"
04	aluminum hydroxide	1 lb.		not listed	—	"
05	sodium sulfate	3 lb.		"	—	"
06	phenol contaminated paper towels	2 oz.		POIS. B	UN 1671	U188
07	"	"		"	"	"
08	"	"		"	"	"
09	"	"		"	"	"
10	"	"		"	"	"
11	N,N-dimethyl-1-naphthylamine	3 oz.		not listed	—	NOT LISTED
12	"	"		"	—	"
13	potassium thiocyanate	1 lb.		"	—	"
14	50% soln. of dicamba amine		1 pt.	"	—	"
15	potassium cyanide	1 oz.		POIS. B	UN 1680	P098
16	sodium cyanide	4 oz.		POIS. B	UN 1689	P106

I AM AN AUTHORIZED EMPLOYEE OF ZENITECH CORP.
 I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [Signature] 2. JANUARY 26, 1990
 SIGNATURE DATE
 3. MATT STINCHFIELD 4. SENIOR SCIENTIST
 NAME (Type or Print) TITLE

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GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/28/1989
 GENERATOR LOCATION: 2000 E. ALLEN RD. GENERATOR EPA ID: AZ7120590040
TUCSON, AZ 85719
 LAB PACK CONTAINER NO: -02 PAGE THREE OF FOUR
 DDT DESCRIPTION: WASTE POISONOUS SOLID, NOS. UN/NA NO: UN 2811
POISON B (Circle One)
 CONTAINER SIZE: 30 GAL. CONTAINER TYPE: FIBER
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	phenol 0.5% soln.		1 oz.	POIS. B	UN 1671	U188
02	potassium ferricyanide	1 lb.		not listed	—	NOT LISTED
03	pyrogalllic acid	1/4 lb.		"	—	"
04	diazalol	1/4 lb.		"	—	"
05	"	"		"	—	"
06	"	"		"	—	"
07	"	"		"	—	"
08	"	"		"	—	"
09	"	"		"	—	"
10	tebuthiuron	1/2 gram		"	—	"
11	tebuthiuron deriv.	1/2 gram		"	—	"
12	"	1/2 gram		"	—	"
13	"	1/2 gram		"	—	"
14	insect carcasses in potassium cyanide	5 grams		POIS. B	UN 1680	P098
15	"	"		POIS. B	UN 1680	P098
16	cacodylic acid	1 gram		NOT LISTED	—	NOT LISTED

I AM AN AUTHORIZED EMPLOYEE OF ZENITECH CORP.
 I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [Signature] 2. JANUARY 26, 1990
 SIGNATURE DATE
 3. MATT STINCHFIELD 4. SENIOR SCIENTIST
 NAME (Type or Print) TITLE

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GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/28/1989
 GENERATOR LOCATION: 2000 E. ALLEN RD. GENERATOR EPA ID: AZ7120590040
TUCSON, AZ 85719
 LAD PACK CONTAINER NO: -02 PAGE FOUR OF FOUR
 DOT DESCRIPTION: WASTE POISONOUS SOLID, NOS. UN/NA NO: UN 2811
POISON B (Circle One)
 CONTAINER SIZE: 30 GAL. CONTAINER TYPE: FIBER
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Sevin	5 grams		NOT LISTED	—	NOT LISTED
02	butoxyethanol ester of 2,4-D	50 grams		"	—	"
03	phosphorous pentoxide	1 lb.		"	—	"
04	calcium fluoride	1 lb.		"	—	"
05	potassium cyanide	1 oz.		POIS. B	UN 1680	P098
06						
07						
08						
09	VERMICULITE					
10	ABSORBENT	40	POUNDS			
11	TOTAL LIQUIDS	2	PINTS			
12	TOTAL SOLIDS	27	POUNDS			
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF ZENITECH CORP.
 I HEREBY CERTIFY THAT THE LAD PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAD PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAD PACK GUIDELINES.

1. [Signature] 2. JANUARY 26, 1990
 SIGNATURE DATE
 3. MATT STINCHFIELD 4. SENIOR SCIENTIST
 NAME (Type or Print) TITLE

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HSP LAB PACK INVENTORY

GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/20/1989
2000 E. ALLEN RD.
 GENERATOR LOCATION: TUCSON, AZ 85719 GENERATOR EPA ID: AZ7120590040
 LAB PACK CONTAINER NO: 03 PAGE ONE OF FIVE
 DOT DESCRIPTION: WASTE FLAM. LIQ., NOS, FLAM UN/NA NO: UN 1993
 (Circle One)
 CONTAINER SIZE: 30 GAL CONTAINER TYPE: FIBER
 (30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Isopar oil		1 qt.	comb. L.P.	NA 1270	DOO1
02	"		"	"	"	"
03	"		"	"	"	"
04	"		"	"	"	"
05	"		"	"	"	"
06	1-octanol		1 qt.	"	"	"
07	diesel oil		1/2 qt.	"	UN 1201	"
08	mineral oil		1/2 qt.	"	NA 1270	"
09	"		"	"	"	"
10	mob. 2w motor oil		1 qt.	"	"	"
11	sorbitan monolaurate	250 gm		NOT LISTED	—	NOT LISTED
12	"	"		"	—	"
13	benzaldehyde		1/2 qt.	comb. L.P.	NA 1981	DOO1
14	benzaldehyde		1 qt.	"	"	"
15	methyl benzoate		1 qt.	NOT LISTED	—	NOT LISTED
16	glutaraldehyde		1 qt.	"	—	"

I AM AN AUTHORIZED EMPLOYEE OF ZENITECH CORP.
 I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [Signature] 2. JANUARY 26, 1990
 SIGNATURE DATE
 3. MATT STINCHFIELD 4. SENIOR SCIENTIST
 NAME (Type or Print) TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/28/1989
 2000 E. ALLEN RD.
 GENERATOR LOCATION: TUCSON, AZ 85719 GENERATOR EPA ID: AZ7120590040
 LAB PACK CONTAINER NO: 03 PAGE TWO OF FIVE
 DOT DESCRIPTION: WASTE FLAM. LIQ., NOS, FLAM UN/NA NO: UN 1993
 (Circle One)
 CONTAINER SIZE: 30 GAL CONTAINER TYPE: FIBER
 (30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Albumin fixative (polyethyl)		40Z.	not listed	—	NOT LISTED
02	soap (biodegradable)		1 PT.	not listed	—	NOT LISTED
03	"		"	not listed	—	"
04	sorbitan tristearate	500 gms		"	—	NOT LISTED
05	sorbitan trioleate	"		"	—	"
06	polyoxyethylene-tridecyl ether	"		"	—	"
07	oil		1/2 pt.	comb. liq.	NA 1270	"
08	oil		"	"	NA 1270	"
09	oil emulsifier		"	"	NA 1270	"
10	polybutene		"	not listed	—	"
11	polyethylene glycol		2 oz.	"	—	"
12	lipra		5 mls.	"	—	"
13	nonionic surfactant		25 mls.	"	—	"
14	lysine monohydrochloride	500 gms.		"	—	"
15	isopar oil		1 pt.	comb. liq.	NA 1270	"
16	"		1 pt.	comb. liq.	NA 1270	"

I AM AN AUTHORIZED EMPLOYEE OF ZENITECH CORP.
 I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [Signature] 2. JANUARY 26, 1990
 SIGNATURE DATE
 3. MATT STINCHFIELD 4. SENIOR SCIENTIST
 NAME (Type or Print) TITLE

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DOT LAB PACK INVENTORY

GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/28/1989
2000 E. ALLEN RD.
 GENERATOR LOCATION: TUCSON, AZ 85719 GENERATOR EPA ID: AZ7120590040
 LAB PACK CONTAINER NO: 03 PAGE THREE OF FIVE
 DOT DESCRIPTION: WASTE FLAM. LIQ., NOS, FLAM UN/NA NO: UN 1993
 (Circle One)
 CONTAINER SIZE: 30 GAL CONTAINER TYPE: FIBER
 (30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Tartaric acid	100 gms		not listed	-	NOT LISTED
02	glutaraldehyde		1 p9.	"	-	"
03	L-glutamic acid	5 lbs.		"	-	"
04	Choline chloride	100 grams		"	-	"
05	dextrose	500 grams		"	-	"
06	(depressed aerosol) 2,2'-dichlorobenzene 0.1%	10 grams		"	-	"
07	maltose hydrate	20 grams		"	-	"
08	methy 1-5,12-dichyl- fluorindinium methosulfate	5 grams		"	-	"
09	dimethyl ammonium hydroxide (not used)	25 grams		"	-	"
10	camphor	10 g.		"	-	"
11	B D-glucose	5 g.		"	-	"
12	L-glutamine	5 g.		"	-	"
13	L-malic acid	1 g.		"	-	"
14	crystal violet stain	1 g.		"	-	"
15	l's brown "	1 g.		"	-	"
16	hite blue 4 "	1 g.		"	-	"

I AM AN AUTHORIZED EMPLOYEE OF ZENITECH CORP.
 I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTER-
 IZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL
 COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [Signature] 2. JANUARY 26, 1990
 SIGNATURE DATE
 3. MATT STINCHFIELD 4. SENIOR SCIENTIST
 NAME (Type or Print) TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/28/1989
 2000 E. ALLEN RD.
 GENERATOR LOCATION: TUCSON, AZ 05719 GENERATOR EPA ID: AZ7120590040
 LAB PACK CONTAINER NO: 03 PAGE FOUR OF FIVE
 DOT DESCRIPTION: WASTE FLAM. LIQ., NOS, FLAM UN/NA NO: UN 1993
 (Circle One)
 CONTAINER SIZE: 30 GAL CONTAINER TYPE: FIBER
 (30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	tryptan blue stain	1 gram.		NOT LISTED	-	NOT LISTED
02	Toluene blue	"		"	-	"
03	Janus green B	"		"	-	NOT LISTED
04	crystal violet	25 g.		"	-	"
05	pararosanilin hydrochloride	25 g.		"	-	"
06	methyl red	10 g.		"	-	"
07	pyronin B	"		"	-	"
08	tryptan blue	"		"	-	"
09	neutral red	"		"	-	"
10	methyl violet	25 g.		"	-	"
11	azocarmine G	10 g.		"	-	"
12	methyl orange	25 g.		"	-	"
13	nile blue A	10 g.		"	-	"
14	pararosanilin acetate	25 g.		"	-	"
15	Auramine O stain	10 g.		"	-	"
16	o.i. red stain	25 g.		"	-	NOT LISTED

I AM AN AUTHORIZED EMPLOYEE OF ZENITECH CORP.
 I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [Signature] 2. JANUARY 26, 1990
 SIGNATURE DATE
 3. MATT STINCHFIELD 4. SENIOR SCIENTIST
 NAME (Type or Print) TITLE

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MSD LAB PACK INVENTORY

GENERATOR NAME: USDA AGRICULTURAL RESEARCH SERV. DATE: 11/28/1989
2000 E. ALLEN RD.
 GENERATOR LOCATION: TUCSON, AZ 85719 GENERATOR EPA ID: AZ7120590040
 LAB PACK CONTAINER NO: 03 PAGE FIVE OF FIVE
 DOT DESCRIPTION: WASTE FLAM. LIQ., NOS, FLAM UN/NA NO: UN 1993
 (Circle One)
 CONTAINER SIZE: 30 GAL CONTAINER TYPE: FIBER
 (30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	promiline dye	25 g.		NOT LISTED	-	NOT LISTED
02	thionin stain	25 g.		"	-	"
03	acridine orange "	100 g.		"	-	"
04	sudan black B "	10 g.		"	-	"
05	brilliant cresyl blue	"		"	-	"
06	aniline blue stain	100 g.		"	-	"
07	orange G "	100 g.		"	-	"
08	sudan III "	100 g.		"	-	"
09	sodium sesquicarbonate	15 lbs.		"	-	"
10	From spill cleanup (concentrated sulfuric acid)					
11	ethylene oxide (glass in metal can)		100 ml	FLAM. LIQ.	UN 1040	0001
12						
13	VERMICULITE					
14	ABSORBANT + DEBRIS	40	POUNDS			
15	TOTAL LIQUID		2.9	GALLONS		
16	TOTAL SOLIDS		18	POUNDS		

I AM AN AUTHORIZED EMPLOYEE OF ZENITECH CORP.
 I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

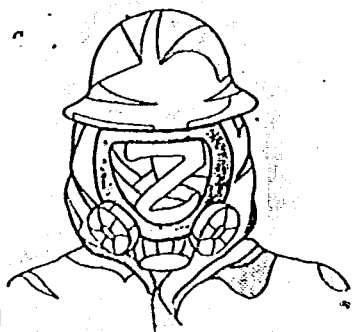
1. [Signature] 2. JANUARY 26, 1990
 SIGNATURE DATE
 3. MATT STINCHFIELD 4. SENIOR SCIENTIST
 NAME (Type or Print) TITLE

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APR 09 1990

ZENITECH CORP

April 5, 1990

Marine Shale Processors, Inc.
110 James Drive West
Suite 120
Saint Rose, LA 70087
Attn: Mr. Walt Rushin

Re: Wastestream #9000381 VIA FAX

Dear Walt:

Per our phone conversation earlier today I am submitting some modifications to the inventories for the above referenced wastestream.

Drum -02, page 3 of 4, item 02:

It is shown in the waste number column as "not listed." We believe that this material is distinctly different from any soluble cyanides (P030) by way of very limited toxicity and because it is not listed or regulated under DOT either. We respectfully suggest that this item remain "not listed."

Drum -02, page 3 of 4, item 16:

Please correct our original inventory to read "D004" under the waste number column.

Drum -03, page 5 of 5, item 11:

Ethylene oxide would more properly be designated "U115" than "D001." Please correct our original inventory to read "U115" under the waste number column.

Thank you for bringing these discrepancies to our attention. The waste will be arriving on or around the 9th of this month as I understand it. Please do whatever is within your power to expedite this approval. Please call me if I can provide any further information.

Sincerely,

ZENITECH CORP

Matt Stinchfield
Senior Scientist

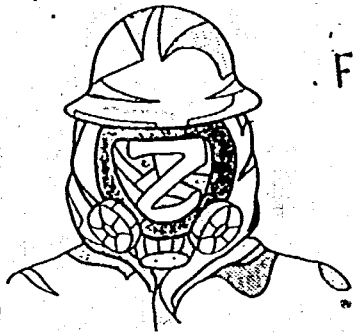
(602) 798-1466 2030 N FORBES BLVD SUITE 103 TUCSON, AZ 85745

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FEB 19 1990

ZENITECH CORP

February 12, 1990

Mr. Brian Prince
Marine Shale Processors, Inc.
110 James Drive West
Suite 120
Saint Rose, LA 70087

Re: Signature Authorization
Document #9000381

Dear Brian:

Enclosed is the letter you requested from USDA to authorize Clarine Buck's signature on Document #9000381.

If you have any questions, please contact me.

Thank you.

ZENITECH CORP.

Anna H. Spitz
Manager, Environmental Sciences

Encl.

(602) 798-1466 2030 N FORBES BLVD SUITE 103 TUCSON, AZ 85745

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United States
Department of
Agriculture

Agricultural
Research
Service

Pacific West Area

Administrative Office
2000 East Allen Road
Tucson, Arizona 85719

February 9, 1990

Ms. Anna H. Spitz, Manager
Environmental Sciences
ZENITECH CORPORATION
2030 N. Forbes Blvd., Suite 103
Tucson, AZ 85745

Dear Ms. Spitz:

I am the Administrative Officer of the Agricultural Research Service Tucson Location and, as such, have the authority to sign as generator for USDA. Deborah Markotay, Purchasing Agent, also has authority to sign for USDA. I signed the disposal application that went to MSP while she was on leave. Thank you for your assistance in this matter.

Sincerely,

Clarine G. Buck

CLARINE G. BUCK
Administrative Officer

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST No 920492

Print or type. (Form designed for use on office (12-pitch) typewriter.)

Form Approved OMD No. 2050-0035 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	2. Page 1 of 4	3. Information in the shaded areas is not required by Federal law
3. Generator's Name and Mailing Address (602) 261-4866 41 NORTH 12 TH ST. FRENCH, LA 70501		4. Generator's Phone	5. State Manifest Document Number	6. State Generator's ID
5. Transporter 1 Company Name DISPOSAL CONTROL SERVICE		6. US EPA ID Number 612101010061253	7. State Transporter's ID	8. Transporter's Phone (504) 261-0499
7. Transporter 2 Company Name		8. US EPA ID Number	9. State Transporter's ID	10. Transporter's Phone
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number	11. State Facility's ID	12. Facility's Phone (504) 631-3161
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol
RQ WASTE FLAMMABLE LIQUID, NOS UN1993		No. Type	001/015000.0146	0001 R
RQ WASTE CORROSIVE SOLID, NOS CORROSIVE MATERIAL UN1759		No. Type	001/015000.05	0002 R
RQ WASTE CORROSIVE LIQUID, NOS CORROSIVE MATERIAL UN1760		No. Type	001/015000.05	0002 R
RQ WASTE CORROSIVE SOLID, NOS CORROSIVE MATERIAL UN1759		No. Type	001/015000.05	0002 R
J. Additional Descriptions for Materials Listed Above a. DCSP/DEAD/8906120-LP b. DCSP/DEAD/8906120-LP c. DCSP/DEAD/8906119BFO d. DCSP/DEAD/8906118BFO		K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information STORED AT KINCHEN ON MANIFEST #920492 FROM 10-13-89 TO 1-22-90 WEAR PROPER PROTECTIVE EQUIPMENT IF UNABLE TO DELIVER, RETURN TO GENERATOR				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.				
Printed/Typed Name KEVIN CARVER		Signature Kevin Carver		Month Day Year 10/12/89
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name DEL TREADAWAY		Signature Del Treadaway		Month Day Year 01/22/90
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name JAMES LITWENCE		Signature James Litwence		Month Day Year 01/24/90
19. Discrepancy Indication Space 2nd transporter's signature for driver change only. Bk.				
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Gail R...				

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO 919652

Please print or type. (Form designed for use on 12-pitch type)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 2	Information in the shaded areas is not required by Federal law
3. Generator's Name and Mailing Address		A171P1010101016121513101311419		A. State Manifest Document Number	
Drug Enforcement Admin 1 North 1st St. Suite 200 Phoenix AZ 85004				919652	
4. Generator's Phone (602) 261-4866		6. US EPA ID Number		B. State Generator's ID	
		101210191811161715141312			
5. Transporter 1 Company Name		7. Transporter 2 Company Name		C. State Transporter's ID	
Disposal Control Service				D. Transporter's Phone (602) 262-0999	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Transporter's ID	
MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		L1A1D181015171016		F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone (504) 631-3161	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	
a. Waste Flammable Solid No. 5. UN 1325 (Pool)		No. Type		14. Unit Vol.	
		01011 DIF 0101 4015		Y	
b.					
c.					
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above			
a) DCSP/Dec D/8906/201P		RECYCLE / REUSE			
15. Special Handling Instructions and Additional Information					
Wear proper protective equipment IF UNABLE TO DELIVER, RETURN TO GENERATOR					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name		Signature		Month Day Year	
KEVIN CARVER ON BEHALF OF DEA		Kevin Carver on behalf of DEA		10/4/01/4/90	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
Printed/Typed Name		Signature		Month Day Year	
TODD LARSON		Todd Larson		10/4/01/4/90	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
Printed/Typed Name		Signature		Month Day Year	
PHIL MACKLIN		Phil Macklin		04/09/94	
19. Discrepancy Indication Space					
Second transporter signature for driver change only.					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name		Signature		Month Day Year	
GINA BASSETT		Gina Bassett		10/4/01/4/90	

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MATERIALS CHARACTERIZATION DATA SHEET
MARINE SHALE PROCESSORS, INC.
P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 465-3310

Generator Name DRUG ENFORCEMENT ADMINISTRATION
Facility Address 41 NORTH 1ST STREET, SUITE 200
City, State, Zip PHOENIX ARIZONA 85004
Technical Contact KEVIN CARVER
Title AGENT
Telephone NO. (602) 261-4866 EXT. _____
Facility EPA ID # AZP000006253

MSP CODE: _____
Bill To: DISPOSAL CONTROL SERVICE INC.
Address: 885 W ILLINOIS
City, State, Zip: PHOENIX ARIZONA 85041
Telephone #: (602) 265-0999
Company Contact: CYNTHIA CLOWES
Container Size: 3-55gal DRUMS
EPA Waste No. D002

CHEMICAL COMPOSITION (No Trade Name)
(Totals must add up to 100%)
DEBRIS TO INCLUDE: 90-95 %
GLASSWARE/PLASTIC _____ %
HYDRIODIC ACID (1-5) %
SOLUTION _____ %

Generating Process EMERGENCY RESPONSE DRUG LAB
Common Name of Waste DEBRIS (GLASS & PLASTIC) CONTAMINATED WITH HYDRIODIC ACID
Rate of Generation 3-55gal PER ONE TIME
Volume in Storage 3-55 GAL IN 2-55gal metal
Is Waste DOT Hazardous YES 110

Proper DOT Shipping Name RO WASTE CORROSIVE SOLID, n.o.s.
Hazard Class CORROSIVE ID No. UN 1759
Transportation Equipment TRACTOR TRAILER
Placarding CORROSIVE

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>0</u>	Silver (Ag)	<u>0</u>
Barium (Ba)	<u>0</u>	Copper (Cu)	<u>0</u>
Cadmium (Cd)	<u>0</u>	Nickel (Ni)	<u>0</u>
Chromium (Cr)	<u>0</u>	Zinc (Zn)	<u>0</u>
Lead (Pb)	<u>0</u>		
Mercury (Hg)	<u>0</u>		
Selenium (Se)	<u>0</u>		

INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u>0</u>	Asbestos	<u>0</u>
Sulfide	<u>0</u>		
Chloride	<u>0</u>		
Bisulfite	<u>0</u>		
Sulfite	<u>0</u>		
Sulfate	<u>0</u>		
Phosphate	<u>0</u>		
Fluorine	<u>0</u>		
Bromine	<u>0</u>		
Chlorine	<u>0</u>		

ORGANICS (mg/l or ppm)

Endrin	<u>0</u>	Organohalide	<u>0</u>
Methoxychlor	<u>0</u>	Mercaptans	<u>0</u>
Toxaphene	<u>0</u>		
2,4-D	<u>0</u>		
2,4,5-T	<u>0</u>		
Phenolics	<u>0</u>		
PCBs	<u>0</u>		
Dioxin	<u>0</u>		
TOC	<u>0</u>		

PHYSICAL DESCRIPTION

Physical State 1 Liquid 1 Semi-solid 1 Solid
Phases/Layering 1 Uni-Layer 1 Bilayer 1 Multilayer
Viscosity 1 High 1 Medium 1 Low
Type of Solids 1 Organic 1 Inorganic 1 Mixed
Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
BTU/lb 5500 % Ash Content 50-70 % Water (by weight) _____
Flash Point (°F) 2200 Type PENSKY-MARTENS CLOSED CUP
Specific Gravity _____
Boiling Point (°C) _____ Freezing Point (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) 2 (Range) 1 to 3
Total Alkalinity/Acidity (%) _____
Odor _____
Color _____

HAZARDOUS PROPERTIES

<u>1</u> Water Reactive	<u>1</u> Reactive	<u>1</u> NONE
<u>1</u> Shock Sensitive	<u>1</u> Pyrophoric	<u>1</u> Explosive
<u>1</u> Radioactive	<u>1</u> Pesticide Residuals	<u>1</u> Polymerizable
<u>1</u> Corrosive	<u>1</u> Toxic Vapor	<u>1</u> Ignitable
<u>1</u> Biological	<u>1</u> Etiological	<u>1</u> Pathogen
<u>1</u> Other		

REQUIRED PERSONNEL PROTECTIVE

EQUIPMENT AND PROCEDURES:

WEAR APPROPRIATE
PERSONAL PROTECTIVE EQUIPMENT

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed.
I certify that the materials tested are representative of all the materials subject to the contract.

DATE 4/22/89
MSP FORM 1049 REV. FEB 81

GENERATOR'S SIGNATURE: 5/A Kevin Carver on behalf of
DEA

8906119
MCDOS Document #

MATERIALS CHARACTERIZATION DATA SHEET
MARINE SHALE PROCESSORS, INC.
P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 465-3310

Generator Name DRUG ENFORCEMENT ADMINISTRATION
Facility Address 71 NORTH 1ST STREET, SUITE 200
City, State, Zip PHOENIX ARIZONA 85004
Technical Contact KEVIN CARVER
Title AGENT
Telephone NO. (602) 261-4866 EXT. _____
Facility EPA ID # AZP000006253

MSP CODE: _____

Bill To: DISPOSAL CONTROL SERVICE, INC.
Address: 888 W ILLINOIS STREET
City, State, Zip: PHOENIX ARIZONA 85041
Telephone #: (602) 268-0999
Company Contact: CYNTHIA CLOWES
Container Size: 1-5 GAL POLY
EPA Waste No. D002

CHEMICAL COMPOSITION (No Trade Name)
(Totals must add up to 100%)

HYDRIODIC ACID 100 %

Generating Process DRUG LAB EMERGENCY RESPONSE
Common Name of Waste HYDRIODIC ACID
Rate of Generation 1-5 GAL PER ONE TIME
Volume in Storage 1-5 GAL IN METAL

Is Waste DOT Hazardous YES 1 NO
Proper DOT Shipping Name WASTE CORROSIVE LIQUID, NOS
Hazard Class Corrosive UN 1760
Transportation Equipment TRACTOR TRAILER
Placarding CORROSIVE

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>0</u>	Silver (Ag)	<u>0</u>
Barium (Ba)	<u>0</u>	Copper (Cu)	<u>0</u>
Cadmium (Cd)	<u>0</u>	Nickel (Ni)	<u>0</u>
Chromium (Cr)	<u>0</u>	Zinc (Zn)	<u>0</u>
Lead (Pb)	<u>0</u>		
Mercury (Hg)	<u>0</u>		
Selenium (Se)	<u>0</u>		

INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u>0</u>	Asbestos	<u>0</u>
Sulfide	<u>0</u>		
Chloride	<u>0</u>		
Bisulfite	<u>0</u>		
Sulfite	<u>0</u>		
Sulfate	<u>0</u>		
Phosphate	<u>0</u>		
Fluorine	<u>0</u>		
Bromine	<u>0</u>		
Chlorine	<u>0</u>		

ORGANICS (mg/l or ppm)

Endrin	<u>0</u>	Organohalide	<u>0</u>
Methoxychlor	<u>0</u>	Mercaptans	<u>0</u>
Toxaphene	<u>0</u>		
2,4-D	<u>0</u>		
2,4,5-T	<u>0</u>		
Phenolics	<u>0</u>		
PCBs	<u>0</u>		
Dioxin	<u>0</u>		
TOC	<u>0</u>		

PHYSICAL DESCRIPTION

Physical State ☒ Liquid ☐ Semi-solid ☐ Solid
Phases/Layering ☒ Uni-Layer ☐ Bi-layer ☐ Multi-layer
Viscosity ☐ High ☐ Medium ☒ Low
Type of Solids ☐ Organic ☒ Inorganic ☐ Mixed
Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
BTU/lb <5000 % Ash Content <10 % Water (by weight) _____
Flash Point (°F) >200 Type PENSKY-HARTENS CLOSED CUP
Specific Gravity _____
Boiling Point, (°C) _____ Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) 2 (Range) 1 to 3
Total Alkalinity/Acidity (%) _____
Odor _____
Color _____

HAZARDOUS PROPERTIES

☐ Water Reactive	☐ Reactive	☐ NONE
☐ Shock Sensitive	☐ Pyrophoric	☐ Explosive
☐ Radioactive	☐ Pesticide Residuals	☒ Ignitable
☐ Corrosive	☐ Toxic Vapor	☐ Pathogen
☐ Biological	☐ Etiological	
☐ Other		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 4/22/89 GENERATOR'S SIGNATURE: S/A Kevin Carver ON
behalf of DEA

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.

P.O. BOX 1698 • KENNER, LA 70063

NOV 25 SALES (504) 465-3310

FACUS Document #

MSP CODE:

Generator Name DRUG ENFORCEMENT ADMINISTRATION
Facility Address 21 NORTH 1ST STREET, SUITE 1000
City, State, Zip PHOENIX ARIZONA 85004
Technical Contact KEVIN CARVER
Title AGENT
Telephone NO. (602) 261-4846 EXT:
Facility EPA ID # AZP000006353

Bill To: DISPOSAL CONTROL SERVICE INC.
Address: 999 W ILLINOIS
City, State, Zip: PHOENIX ARIZONA 85041
Telephone #: (602) 268-0999
Company Contact: CYNTHIA CLOVES
Container Size: 1-14gal 2-5gal
EPA Waste No.

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

LAB PACKS %
(SEE ATTACHED INVENTORY SHEETS) %
_____%
_____%
_____%
_____%
_____%

Generating Process DRUG LAB EMERGENCY RESPONSE
Common Name of Waste LAB PACKS SEE ATTACHED INVENTORY
Rate of Generation 1-14gal 2-5gal PER ONE TIME SHEETS

Volume in Storage 1-14gal 2-5gal IN 1-14gal poly
2-5gal poly

Is Waste DOT Hazardous YES NO
Proper DOT Shipping Name LAB PACKS (SEE ATTACHED INVENTORY SHEETS)
Hazard Class ID No.
Transportation Equipment
Placarding

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>0</u>	Silver (Ag)	<u>0</u>
Barium (Ba)	<u>0</u>	Copper (Cu)	<u>0</u>
Cadmium (Cd)	<u>0</u>	Nickel (Ni)	<u>0</u>
Chromium (Cr)	<u>0</u>	Zinc (Zn)	<u>0</u>
Lead (Pb)	<u>0</u>		
Mercury (Hg)	<u>0</u>		
Selenium (Se)	<u>0</u>		

INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u>0</u>	Asbestos	<u>0</u>
Sulfide	<u>0</u>		
Chloride	<u>0</u>		
Bisulfite	<u>0</u>		
Sulfite	<u>0</u>		
Sulfate	<u>0</u>		
Phosphate	<u>0</u>		
Fluorine	<u>0</u>		
Bromine	<u>0</u>		
Chlorine	<u>0</u>		

ORGANICS (mg/l or ppm)

Endrin	<u>0</u>	Organohalide	<u>0</u>
Methoxychlor	<u>0</u>	Mercaptans	<u>0</u>
Toxaphene	<u>0</u>		
2,4-D	<u>0</u>		
2,4,5-T	<u>0</u>		
Phenolics	<u>0</u>		
PCBs	<u>0</u>		
Dioxin	<u>0</u>		
TOC	<u>0</u>		

PHYSICAL DESCRIPTION

Physical State 1 Liquid 1 Semi-solid 1 Solid
Phases/Layering 1 Uni-Layer 1 Bilayer 1 Multilayer
Viscosity 1 High 1 Medium 1 Low
Type of Solids 1 Organic 1 Inorganic 1 Mixed
Total Solids (wt. %) Suspended Solids (wt. %)
BTU/lb % Ash Content
Flash Point (°F) Type
Specific Gravity
Boiling Point (°C)
Vapor Pressure (mm Hg)
pH (Avg) (Range) to
Total Alkalinity/Acidity (%)
Odor
Color

HAZARDOUS PROPERTIES

1 Water Reactive 1 Pyrophoric 1 Explosive
1 Shock Sensitive 1 Polymerizable
1 Radioactive 1 Toxicological
1 Corrosive 1 Ignitable
1 Biological 1 Pathogen
1 Other

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 11/24/89 GENERATOR'S SIGNATURE: Sgt Kevin Carver on behalf of DEA
MSP FORM 1048 (REV. FEB 88)

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DRUM # 1	MANIFEST #	PROFILE # LAKE HAVASU
DOT PROPER SHIPPING NAME: FLAMMABLE LIQUID NOS		HAZARD CLASS: FLAMMABLE
EPA WASTE CODE: P001	NAME OF PACKAGER: S/A (10/1/93)	CONTAINER TYPE: 14g RLY

WASTE IDENTIFICATION			CONTAINERS		OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE
1	METHYLAMINE	P001	1	2 GAL	GLASS
2	METHYLAMINE	P001	1	1 QT	GLASS
3					
4					
5					
6					
7					
8					
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DRUM # <u>2</u>	MANIFEST #	PROFILE # <u>LAKE HAWAII</u>			
DOT PROPER SHIPPING NAME: <u>Explosive solids</u>		HAZARD CLASS: <u>Explosive</u> <u>UN 1759</u>			
EPA WASTE CODE: <u>D002</u>	NAME OF PACKAGER: <u>SHAKED</u>	CONTAINER TYPE: <u>55 Poly</u>			
WASTE IDENTIFICATION		CONTAINERS		OTHER INFORMATION	
#	CHEMICAL NAME	EPA WASTE CODE	SIZE	TYPE	
1	Lye	D002	3	1 PT	PLASTIC
2	SODIUM THIOSULFATE	D002	1	200	GLASS
3					
4					
5					
6					
7					
8					
9					
10					
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DRUM # 3 MANIFEST # _____ PROFILE # LAK HAASIL
 DOT PROPER SHIPPING NAME: FLAMMABLE SOLIDUS HAZARD CLASS: Flammable IN NA # 1325
 EPA WASTE CODE: D01 NAME OF PACKAGER: STANCLION CONTAINER TYPE: 55 Poly

WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1 <u>RED ALKALORIS</u>	<u>D001</u>	<u>2</u>	<u>1QT</u>	<u>GLASS</u>	<u>Plus LAD</u> <u>REFRIGTS</u> <u>Packed in</u> <u>VERMICULITE.</u>
2 <u>(Mixture)</u>					
3					
4					
5					
6					
7					
8					
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DISPOSAL CONTROL SERVICE, INC.

888 W. LVI STREET, PHOENIX, ARIZONA 85041
(602) 268-1009 WATTS (800) 433-4981 (AZ Only)

Date: November 18, 1989

I am an authorized employee of Disposal Control Service, Inc., the company preparing the Lab Packs for DRUG ENFORCEMENT ADMIN. I hereby certify that the Lab Packs represented by this Material Characterization Data Sheet and Lab Pack Packing Lists are prepared and shipped in full compliance with the Marine Shale Processors, Inc. Lab Pack Guidelines.

Respectfully,

David W. Threlkeld
Disposal Control Service, Inc.

Re: LAB PACKS - DEA
LAKE HAVASU

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Vol. 19, Exh. 269, Page 15
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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST 010068

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039 Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's USEPA ID No. LA1D1018113171419151312111912		Manifest Document No. 1111912		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address V. A. Medical Center 3801 Miranda Avenue Palo Alto, CA 94304		4. Generator's Phone (415) 493-5000x5995		5. Transporter 1 Company Name North State Environmental		6. US EPA ID Number LA1D1018113171419151312111912		7. Transporter 2 Company Name	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA1D1018113171419151312111912		11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	
a. Waste Potassium Hydroxide Solution, Corrosive Drum 9		Material, UN1814		1		D I		120	
b. Waste Hydrochloric Acid, Corrosive Material, UN1789 Drum 10				1		D I		15	
c. RQ, Waste DDT, ORM-A, NA2761 Drum 12				1		D I		5	
14. Additional Descriptions for Materials Listed Above		15. Special Handling Instructions and Additional Information		16. Generator's Certification		17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials	
Drums 9, 10, and 12 are each packed in a separate container. Drums 9 and 10 are each packed in a separate container. Drums 9 and 10 are each packed in a separate container.		EMERGENCY CONTACT: Bob Adams or Stuart Bailey, (415) 493-5000x5995. Use gloves, goggles, and respirator if drums are opened.		I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		Stuart M. Bailey		10/10/90	
19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		Gina F. SSETT		10/11/90			

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RECYCLE / REUSE
MANIFEST 010067

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address V. A. Medical Center 3801 Miranda Avenue Palo Alto, CA 94304		C1AID19811374815303119							
4. Generator's Phone (415) 493-8000x5995		6. US EPA ID Number							
5. Transporter 1 Company Name North State Environmental		C1AID10101601371318							
7. Transporter 2 Company Name		8. US EPA ID Number							
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. Waste Acetic Anhydride, Corrosive Material, UN1715 Drum 5				1		D I		15 P	
b. Waste Nitric Acid, Over 40%, Oxidizer, UN2031 Drum 6				1		D I		15 P	
c. Waste Corrosive Liquid N.O.S., Corrosive Material, UN1760 (D002,U123) Drum 7				1		D I		15 P	
d. Waste Alkaline Liquid N.O.S. (P030,D003), Corrosive Material, NA1719 Drum 8				1		D I		55 P	
Additional Descriptions for Materials Listed Above: All drums are metal back cases. MSP Approval Codes: NSTE AND / 0001 Drums 5-7: 55gal. Drum 8: 119gal.				RECYCLE REUSE		Handling Codes for Wastes Listed Above:			
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT: Bob Adamo or Stuart Bailey, (415)493-5000x5995. Use gloves, goggles and respirator if drums are opened. IF UNABLE TO DELIVER, RETURN TO GENERATOR									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Stuart M Bailey				Signature [Signature]		Month Day Year 10/4/04			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name John M. Erickson				Signature [Signature]		Month Day Year 10/4/04			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name GINA T BASSEN									
Signature [Signature]				Month Day Year 04/13/90					

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST 010066

Please print or type. (Form designed for use on site (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-81

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address V. A. Medical Center 3801 Miranda Avenue Palo Alto, CA 94304		4. Generator's Phone (415) 493-5000x5995	5. Transporter 1 Company Name North State Environmental	6. US EPA ID Number CA D0000000000000000000	7. Transporter 2 Company Name US EPA ID Number CA D0000000000000000000
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA D0981057706	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		
a. Waste Flammable Solid N.O.S. (D001), Flammable Solid, Drum 1 UN1325		12. Containers No. 1 Type D F	13. Total Quantity 15	14. Unit P	15. Waste No. D001
b. Waste Flammable Liquid, Poisonous N.O.S. (U188, U239) Drum 2 Flammable Liquid, UN1992		12. Containers No. 1 Type D F	13. Total Quantity 100	14. Unit P	15. Waste No. U188, U239
c. Waste Oxidizer N.O.S. (D001, P007), Oxidizer, UN1479 Drum 3		12. Containers No. 1 Type D F	13. Total Quantity 55	14. Unit P	15. Waste No. D001, P007
d. Waste Perchloric Acid, Oxidizer, UN1873 Drums 4, 11		12. Containers No. 21 Type D F	13. Total Quantity 3015	14. Unit P	15. Waste No. D001
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		17. Special Handling Instructions and Additional Information 9001133 EMERGENCY CONTACT: Bob Adamo or Stuart Bailey, (415) 493-5000x5995. IF UNABLE TO DELIVER, RETURN TO GENERATOR use gloves, goggles, and respirator if drums are opened.			
18. Discrepancy Indication Space		19. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.			

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST 013427

Print or type. (Form designed for use on other (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0038, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's USEPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address V. A. Medical Center 3801 Miranda Avenue Palo Alto, CA 94304		4. Generator's Phone (415) 493-5000x5995			
5. Transporter 1 Company Name North State Environmental		6. US EPA ID Number LA00000000000000000000			
7. Transporter 2 Company Name		8. US EPA ID Number			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA00000000000000000000			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. Waste DDT, ORM-A, NA2761		12. Containers No. 3	Type D F	13. Total Quantity 36	14. Unit P
b.					
c.					
d.					
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT: Hussam Alkhadra, (415)493-5000x5995. Use gloves, goggles, and respirator if drums are opened. IF UNABLE TO DELIVER, RETURN TO GENERATOR		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: Stuart M Bailey Signature: Stuart M. Bailey Month Day Year: 04/10/1990		18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: John M. Erickson Signature: [Signature] Month Day Year: 10/10/1990			
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name: GINA B. BSETT Signature: Gina B. Bsett Month Day Year: 10/11/1990					

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. MAR 07 1990
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

For MSP Use Only

Approval Code

9001194

A. Generator Information

Generator Name V.A. MEDICAL CENTER
Site Address 3801 MIRANDA AVE.
City PALO ALTO State CA Zip Code 94304
Generator Contact HUSAM ALKHADRA
Title CHIEF, OCCUPATIONAL HEALTH
Telephone No. (415) 493-5000 x 5996
Facility EPA ID No. CAD981374853

B. Customer Information

Company Name NORTH STATE ENVIRONMENTAL
Contact LINDA McDORMIER
Address 9020 SPRUCE AVE., SUITE W
90. SAN FRANCISCO, CA 94080
Telephone No. (415) 688-9694
For Customer Use 3 X 55 GAL FIBER DRUMS
EMPTY

C. Regulatory Information

☒ RCRA Regulated

☒ Land Ban

☐ Non-Regulated

EPA Waste Code(s) U061

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

EMPTY FIBER DRUMS - 55 GALLON CAPACITY
THAT CONTAINED 75% DDT, 25% INERT

MIN

MAX

100%

Common Name of Waste: EMPTY FIBER DRUMS

E. General Characteristics

Color: WHITE

Odor: ☒ None ☐ Mild ☐ Strong

Physical: ☐ Liquid ☐ Sludge ☒ Solid ☐ Powder

Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? Y ☒ N

Polymerizable? Y ☒ N

Infectious? Y ☒ N

Pyrophoric? Y ☒ N

Water Reactive? Y ☒ N

Explosive? Y ☒ N

G. Physical/Chemical Properties

Ash (first actual Wt %)

50%

Water (Wt %)

☒ < 1 ☐ 5-10

Specific Gravity

☐ 1 < 0.8 ☐ 1.2-1.4

Viscosity

(for bulk liquids only)

list actual in centipoise

Total

Suspended Solids

(Wt % for bulk liquids only)

☐ 5-20

if > 20

list actual

pH

☐ 2-6 ☒ 6-10

☐ 10-12.5

if < 2 or > 12.5

list actual

Flash Point (closed cup)

☐ < 100°F ☒ > 200°F

☐ 100-140°F ☐ actual °F

☐ 140-200°F actual

Sulfur (Wt %)

☒ < 5

if > 5 list actual value

Halogens (Wt %)

☒ < 1

☐ 1-5

☐ 5-10

☐ > 10 list actual Wt %

☐ Iodine

☐ Bromine

☐ Chlorine

☐ Fluorine

actual Wt %

Metals: EP Toxicity Test (ppm)

Arsenic (As)

NS

Barium (Ba)

NS

Cadmium (Cd)

NS

Chromium (Cr)

NS

Lead (Pb)

NS

Mercury (Hg)

NS

Selenium (Se)

NS

Silver (Ag)

NS

Copper (Cu)

NS

Nickel (Ni)

NS

Zinc (Zn)

NS

Organics (ppm)

Enclrin

NS

Endane

NS

Methoxychlor

NS

Toxaphene

NS

2,4-D

NS

2,4,5-TP (Silvex)

NS

if material contains the following

compounds, indicate actual ppm:

PCB

NS

Cyanides

NS

Sulfides

NS

Dioxin

NS

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

MAR 16 1990 For MSP Use Only

Approval Code 9001194

A. Generator Information

Generator Name V.A. MEDICAL CENTER
Site Address 3801 MIRANDA AVENUE
City PALO ALTO State CA Zip Code 94304
Generator Contact STUART BAILEY
Title INDUSTRIAL HYGIENIST
Telephone No. (415) 493-5000
Facility EPA ID No. QAD981374653

B. Customer Information

Company Name NORTH STATE ENVIRONMENTAL
Contact LINDA McPORMION
Address 9030 SPRING AVE., SUITE W
OAKLAND, SAN FRANCISCO, CA 94600
Telephone No. (415) 888-9694
For Customer Use 3X 55 GAL EMPTY FIBER DRUMS

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non Regulated EPA Waste Code(s)

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in minimum column must be greater than or equal to 100%)
EMPTY FIBER DRUMS - 55 GALLON CAPACITY -
THAT CONTAINED 75% DDT, 25% INERT

MIN MAX
100%

Common Name of Waste: EMPTY FIBER DRUMS

E. General Characteristics

Color: WHITE
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N Polymerizable? Y ☒ N
Infectious? Y ☒ N Pyrophoric? Y ☒ N
Water Reactive? Y ☒ N Explosive? Y ☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %): 80%
Water (Wt %): ☒ < 1 11.5-10
RTU's per lb: 8000
Specific Gravity: 1.08-1.12 1.1
Viscosity: 115-20
Total Suspended Solids (Wt % for bulk liquids only): 115-20
pH: 11.0-12.5
Flash Point (closed cup): ☒ < 100 F 200 F
Sulfur (Wt %): ☒ < 5
Halogens (Wt %): ☒ < 1 1-5 5-10
Chlorine: ☒ < 1 1-5 5-10
Fluorine: ☒ < 1 1-5 5-10

Metals: EP Toxicity Test (Wt %): NO = NONE SUSPECTED
Arsenic (As): NO
Barium (Ba): NO
Cadmium (Cd): NO
Chromium (Cr): NO
Lead (Pb): NO
Mercury (Hg): NO
Selenium (Se): NO
Silver (Ag): NO
Copper (Cu): NO
Nickel (Ni): NO
Zinc (Zn): NO

Organics (ppm): NO = NONE SUSPECTED
Enthalpy: NO
Isotopes: NO
Methoxy: NO
Benzophen: NO
2,4-D: NO
2,4,5-TP (Siloxane): NO
If material contains the following compounds, indicate actual ppm:
PCB
Cyanides
Sulfides
Dioxin

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. MAR 07 1990 For MSP Use Only
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310 0001133

Approval Code _____

A. Generator Information

Generator Name V.A. MEDICAL CENTER
Site Address 3801 MIRANDA AVE.
City PALO ALTO State CA Zip Code 94304
Generator Contact HUGO M. ALKHADE
Title CHIEF, OCCUPATIONAL HEALTH
Telephone No. (415) 493-5500 x 5495
Facility EPA ID No. CA D931374-853

B. Customer Information

Company Name NORTH STATE ENVIRONMENTAL
Contact LINDA McPORMION
Address 90 SO. SPRUCE AVE., SUITE W
S.D. SAN FRANCISCO, CA 94080
Telephone No. (415) 588-9694
For Customer Use 1X SEAL LIQUID

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) U061

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

	MIN	MAX
<u>DDT</u>		<u>85%</u>
<u>AROMATIC PETROLEUM DERIVATIVE SOLVENT</u>		<u>12%</u>
<u>NON-IONIC POLYHYDRIOL ALKYL ANDA SULFONATE</u>		<u>3%</u>

Common Name of Waste: DDT - CONT. ISSUE

E. General Characteristics

Color: CREAM
Odor: ☐ None ☒ Mild ☐ Strong
☒ Liquid ☒ Sludge ☐ Solid ☐ Powder
Phases: ☐ Single Layer ☒ Double Layer ☐ Multi Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y ☐ N ☒	Polymerizable?	Y ☐ N ☒
Infectious?	Y ☐ N ☒	Pyrophoric?	Y ☐ N ☒
Water Reactive?	Y ☐ N ☒	Explosive?	Y ☐ N ☒

G. Physical/Chemical Properties

Ash (Est actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
<u>10%</u>	☒ < 1 ☐ 1.5-10	☐ 1.1-1.4 ☐ 1.5-1.7	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 ☒ 6-10
BTU's per lb	☐ 1-5 ☐ > 10	☐ 0.8-1.0 ☐ 1.1-1.7	list actual in centipoise	☐ 1-5 ☐ 5-20	☐ 10-12.5
(list actual value)	list actual	list actual	cp	list actual	if < 2 or > 12.5
Flash Point (closed cup)	Sulfur (Wt %)	Halogens (Wt %)			list actual Wt %
☐ < 100°F ☐ > 200°F	☒ < 5 ☐ > 5 list actual value	☒ Iodine ☐ Bromine ☒ Chlorine ☐ Fluorine			
☒ 100-140°F ☐ 140-200°F	actual	actual Wt %			
Metals: EP Toxicity Test (mg/L)	NO = NONE SUSPECTED	Organics (ppm)	NO = NONE SUSPECTED		
Arsenic (As)	<u>NS</u>	Endrin	<u>NS</u>		
Barium (Ba)		Lindane			
Cadmium (Cd)		Methoxychlor			
Chromium (Cr)		Toxaphene			
Lead (Pb)		2,4-D			
Mercury (Hg)		2,4,5-TP (Silvex)			

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.

110 James Drive West, Suite 120

St. Rose, LA 70087

504-465-3310

MAR 05 1990

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Approval Code _____

A. Generator Information

Generator Name V.A. Medical Center

Site Address 3801 Miranda Avenue

City Palo Alto State CA Zip Code 94304

Generator Contact HUSSEIN AL-KHADRA

Title CHIEF, OCCUPATIONAL HEALTH

Telephone No. (415) 493-5000 x 5995

Facility EPA ID No. CAD981374853

B. Customer Information

Company Name North State Environmental

Contact Linda McCormick

Address 90 South Spruce Ave., Suite W
So. San Francisco, CA 94080

Telephone No. (415) 588-9694

For Customer Use LAB PACKS

6X5GAL, 2X14GAL, 2X30GAL

C. Regulatory Information

☐ RCRA Regulated

☐ Land Ban

SEE ATTACHED SHEETS

☐ Non-Regulated

EPA Waste Code(s) _____

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

Lab Packs (see attached sheets)

MIN

100%

MAX

Common Name of Waste: LAB PACKS 2/22

E. General Characteristics

Color: _____

SEE ATTACHED SHEETS

Is the waste:

Odor: ☐ None ☐ Mild ☐ Strong

Radioactive? Y ☒ N Polymerizable? Y ☒ N

Physical: ☐ Liquid ☐ Sludge ☐ Solid ☐ Powder

Infectious? Y ☒ N Pyrophoric? Y ☒ N

Phases: ☐ Single Layer ☐ Double Layer ☐ Multi-Layer

Water Reactive? ☒ Y N Explosive? Y ☒ N

G. Physical/Chemical Properties

SEE ATTACHED SHEETS

Ash (list actual Wt %)

Water (Wt %)

Specific Gravity

Viscosity

Suspended Solids

pH

☐ < 1 ☐ 1.5-10

☐ < 0.8 ☐ 1.1-1.4

(for bulk liquids only)

(Wt % for bulk liquids only)

☐ 2-6 ☐ 6-10

BTU's per lb

☐ 0.8-1.0 ☐ 1.4-1.7

list actual in centipoise

☐ 5-20

☐ 10-12.5

(list actual value)

☐ 1.0-1.2 ☐ > 1.7

list actual

if > 20

if < 2 or > 12.5

list actual

list actual

list actual

list actual

Flash Point (closed cup)

Sulfur (Wt %)

Halogens (Wt %)

< 1 1-5 5-10

if > 10 list actual Wt %

☐ < 100°F ☐ > 200°F

☐ < 5

☐ Iodine

☐ ☐ ☐

☐ 100-140°F ☐ _____°F

if > 5 list actual value

☐ Bromine

☐ ☐ ☐

☐ 140-200°F actual

actual

☐ Chlorine

☐ ☐ ☐

Metals: EP Toxicity Test (mg/l)

Selenium (Se)

Organics (ppm)

Arsenic (As)

Silver (Ag)

Endrin

Barium (Ba)

Copper (Cu)

Endrin

Cadmium (Cd)

Nickel (Ni)

Methoxychlor

Chromium (Cr)

Zinc (Zn)

Toxaphene

Lead (Pb)

2,4-D

Mercury (Hg)

2,4,5-TP (Silvex)

If material contains the following

compounds, indicate actual ppm:

PCB

Cyanides

Sulfides

Dioxin

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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 1 PAGE 1 OF 10

DOT DESCRIPTION: Waste Flammable Solid NOS (D001) UN/ NA NO: UN1325

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	GAF iron carbonyl powder	1	5lb	flam.solid	UN1325	D001
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 2/28/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 2 PAGE 2 OF 10
UN/

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous NOS NA NO: UN1992
(U188/U239), Flammable Liquid

CONTAINER SIZE: 30GAL CONTAINER TYPE: FIBER
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	20% aqueous sodium azide soln	1	100mls	poison B	UN1687	P105
02	petroleum ether	1	pt	flam.liq	UN1271	D001
03	ethidium bromide	1	gal	NRM		NRM
04	ethidium bromide	1	50mls	NRM		NRM
05	paraformaldehyde	1	gal	ORM-A	UN2213	NRM
06	alpha-naphthyl acetate	20	capsules	NRM		NRM
07	fast blue RR	40	capsules	NRM		NRM
08	fast corinth V	10	capsules	NRM		NRM
	naphthol AS-D chloroacetate	10	capsules	NRM		NRM
10	phenol, solid	5	1lb	poison B	UN1671	U188
11	ethidium bromide	1	1b	NRM		NRM
12	colloidion, solid	50	g	NRM		NRM
13	10% formalin sol'n	3	25mls	ORM-A	UN2209	U122
14	dimethyl sulfoxide	4	1pt	flam.liq	UN1993	D001
15	potassium chloride solution	100	mls	NRM		NRM
16	sodium cacodylate buffer	200	mls	poison B	UN1556	D004

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 2/28/90
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Linda R. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

B PACK CONTAINER NO: 2 PAGE 2b OF 10

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous NOS (U188/U239), Flammable Liquid UN/ NA NO: UN1992

CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	Tris hydrochloride	10	g	NRM		NRM
02	quinacrine	30	g	NRM		NRM
03	N,N-diethyl-p-phenylene diamine	100	g	NRM		NRM
04	xylene	250	mls	flam.liq	UN1307	U239
05	2-mercaptoethanol	250	mls	flam.liq	UN1993	D001
06	methyl benzoate	250	mls	NRM		NRM
07	glutaraldehyde	100	mls	NRM		NRM
08	57% formalin, solid	100	g	ORM-A	UN2209	U122
09	pH 7.4 buffer	100	mls	NRM		NRM
10	1.5% glutaraldehyde in cacodylate buffer	1	pt	poison B	UN1556	D004
11	acetic acid/xylene	6	pts	comb. liq	NA1993	NRM
12	diaminobenzidine in tris buffered saline and chlorox	1	gal	NRM		NRM
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 2/28/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90
GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 3 PAGE 3 OF 10

DOT DESCRIPTION: Waste Oxidizer NOS (D001/P087), NA NO: UN1479
Oxidizer UN/

CONTAINER SIZE: 14gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>30% hydrogen peroxide</u>	<u>2</u>	<u>1pt</u>	<u>oxidizer</u>	<u>UN2014</u>	<u>D001</u>
02	<u>silver nitrate in</u>					
	<u>ammonium hydroxide</u>	<u>1</u>	<u>gal</u>	<u>oxidizer</u>	<u>UN1493</u>	<u>D001/D011</u>
03	<u>osmium tetroxide</u>	<u>3</u>	<u>1pt</u>	<u>oxidizer</u>	<u>UN1479</u>	<u>P087</u>
04						
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 2/28/90
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3. Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

☐ B PACK CONTAINER NO: 4 PAGE 4 OF 10

DOT DESCRIPTION: Waste Perchloric Acid, UN/
Oxidizer NA NO: UN1873

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	perchloric acid	1	pt	oxidizer	UN1873	D001
02						
03						
04						
05						
06						
07						
08						
09						
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREDY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 2/28/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

3 PACK CONTAINER NO: 5 PAGE 5 OF 10

DOT DESCRIPTION: Waste Acetic Anhydride, UN/
Corrosive Material NA NO: UN1715

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	acetic anhydride	100	mls	corr.mat	UN1715	D002
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 2/28/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90
GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

PACK CONTAINER NO: 6 PAGE 6 OF 10
DOT DESCRIPTION: Waste Nitric Acid, Over 40% UN/ NA NO: UN2031
CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	70% nitric acid	3	lpt	oxidizer	UN2031	D001
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 2/28/90
SIGNATURE DATE
3. Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

B PACK CONTAINER NO: 7 PAGE 7 OF 10

DOT DESCRIPTION: Waste Corrosive Liquid NOS UN/NA NO:

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>trifluoroacetic acid</u>	<u>25</u>	<u>mls</u>	<u>corr.mat</u>	<u>UN1760</u>	<u>D002</u>
02	<u>acid hematoxylin solution</u>	<u>5</u>	<u>100mls</u>	<u>corr.mat</u>	<u>UN1760</u>	<u>D002</u>
03	<u>boric acid</u>	<u>2</u>	<u>50g</u>	<u>NRM</u>		<u>NRM</u>
04	<u>5-sulfosalicylic acid</u>	<u>3</u>	<u>1lb</u>	<u>NRM</u>		<u>NRM</u>
05	<u>acetic acid</u>	<u>50</u>	<u>mls</u>	<u>corr.mat</u>	<u>UN2790</u>	<u>D002</u>
06	<u>acetic acid</u>	<u>1</u>	<u>L</u>	<u>corr.mat</u>	<u>UN2790</u>	<u>D002</u>
07	<u>88% formic acid</u>	<u>1</u>	<u>ml</u>	<u>corr.mat</u>	<u>UN1779</u>	<u>U123</u>
08	<u>hematoxylin solution</u>	<u>2</u>	<u>100mls</u>	<u>corr.mat</u>	<u>UN1760</u>	<u>D002</u>
10						
11						
12						
13						
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16						

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 2/28/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94301

3 PACK CONTAINER NO: 8 PAGE 8 OF 10

UN/
DOT DESCRIPTION: Waste Alkaline Liquid NOS (P030/D003), NA NO: NA1719
Corrosive Material

CONTAINER SIZE: 14gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	ammonium sulfide	1	pt	flam.liq	UN2683	D003
02	1% sodium nitroferricyanide	50	mls	poison B	UN1935	P030
03	ammonium hydroxide	10	mls	corr.mat	NA2672	D002
04 (pH 12.5)	3M diethanolamine in water	100	mls	corr.mat	UN1719	D002
05	sodium hydroxide	100	mls	corr.mat	UN1824	D002
06	sodium hydroxide pellets	50	g	corr.mat	UN1823	D002
07	sodium carbonate, anhyd.	2	5lbs	NRM		NRM
08	sodium ethoxide	2	1pt	corr.mat	NA1719	D002
09	monoethanolamine	2	500mls	corr.mat	UN2491	D002
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1. Linda B. McCormick 2. 2/28/90
SIGNATURE DATE

3. Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

3 PACK CONTAINER NO: 9 PAGE 9 OF 10
UN/

DOT DESCRIPTION: Waste Potassium Hydroxide Solution, NA NO: UN1814
Corrosive Material

CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	potassium hydroxide solution	2	5gal	corr.mat	UN1814	D002
02						
03						
04						
05						
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07						
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 2/28/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 10 PAGE 10 OF 10

DOT DESCRIPTION: Waste Hydrochloric Acid UN/NA NO: UN1789

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	hydrochloric acid	1	pt	corr.mat	UN1789	D002
02	hydrochloric acid	100	mls	corr.mat	UN1789	D002
03	hydrochloric acid	50	mls	corr.mat	UN1789	D002
04	ferric chloride solution	100	mls	corr.mat	UN2582	D002
05	iodotrimethyl silane	25	mls	corr.mat	UN1760	D002
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1. Linda B. McCormick 2. 2/28/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: V.A. Medical Center MARK 12 1990 DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

☐ PACK CONTAINER NO: 4 PAGE 4 OF 11

DOT DESCRIPTION: Waste Perchloric Acid, Oxidizer UN/ NA NO: UN1873

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	perchloric acid	250	mls	oxidizer	UN1873	D001
02						
03						
04						
05						
06						
07	document - 4 7001133					
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 2/28/90
SIGNATURE DATE

3. Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: V.A. Medical Center DATE: 2/28/90

GENERATOR LOCATION: 3801 Miranda Avenue EPA ID: CAD981374853
Palo Alto, CA 94304

I ☐ PACK CONTAINER NO: 11 PAGE 11 OF 11

DOT DESCRIPTION: Waste Perchloric Acid, Oxidizer UN/NA NO: UN1873

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	perchloric acid	250	mls	oxidizer	UN1873	D001
02						
03						
04						
05						
06	COPYRIGHT 4-9001133					
07						
08						
09						
10						
11						
12						
13						
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SIGNATURE DATE

3. Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST 010597

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CLAD19181113171418151310121210

2. Page 1 of 1

3. Generator's Name and Mailing Address
V. A. Medical Center
3801 Miranda Avenue
Palo Alto, CA 94304

4. Generator's Phone (415) 943-5000

5. Transporter 1 Company Name
North State Environmental

6. US EPA ID Number
CLAD1010101013171318

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380

10. US EPA ID Number
LA1018110105171016

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

No.	Type	Total Quantity	Unit	Waste No.
2	D F	10	G	U129 R
5	D F	100	P	U061 R

12. Containers

13. Total Quantity

14. Unit

15. Waste No.

16. Additional Descriptions for Materials Listed Above

17. Handling Codes for Wastes Listed Above

18. Special Handling Instructions and Additional Information

EMERGENCY CONTACT: Hussam Alkhadra, (415) 493-5000x5995.
IF UNABLE TO DELIVER, RETURN TO GENERATOR and respirator if drums are opened.

19. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

20. TRANSPORTER'S CERTIFICATION: I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

21. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST 010047

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address V. A. Medical Center 3801 Miranda Avenue Palo Alto, CA 94304		4. Generator's Phone (415) 493-5000			
5. Transporter 1 Company Name North State Environmental		6. US EPA ID Number 1111111111111111			
7. Transporter 2 Company Name		8. US EPA ID Number			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA081057706			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. RQ, Waste DDT, ORM-A, NA2761 Drum		1	DF	5	G
b. RQ, Waste DDT, ORM-A, NA2761 Drums 1-4		4	DF	60	P
c.					
d.					
16. Additional Descriptions for Materials Listed Above A: 5gal liquid: 75% DDT, 25% inert. NSTEAMDC/9000351/DFO B: 5gal solid: 75% DDT, 25% inert. NSTEAMDC/9000351/DFO		17. Handling Codes for Wastes Listed Above			
18. Special Handling Instructions and Additional Information EMERGENCY CONTACT: Hussam Alkhadra, (415)493-5000x5995. IF UNABLE TO REACH THE GENERATOR, use self-contained breathing apparatus if drums are opened.					
19. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name ROBERT C. ADAMO		Signature Robert C. Adamo		Month Day Year 10/2/88	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name JOHN M. ERICKSON		Signature John M. Erickson		Month Day Year 10/2/88	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name GAIL LEONARD					
Signature Gail Leonard		Month Day Year 10/3/88			

EPA Form 8700-22 (Rev. 9-81) WHITE - DFO GREEN - CANNON YELLOW - TONE BLUE - TONE BROWN - TONE GOLD - TONE SILVER

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MCDS Document #

MANUFACTURE PROCESSORS, INC. MATERIALS CHARACTERIZATION DATA SHEET SALES (504) 465-3310

MSP CODE:

6-01L-013/018

Generator Name G S X Services, Inc.
Facility Address 3527 Whiskey Bottom Road
Laurel, MD 20707

City, State, Zip _____
Technical Contact Mark A Prince
Title Material Review Supervisor
Telephone NO. 301 953-9883 EXT. _____
Facility EPA ID # MD00 980 554 653

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Sodium Hydroxide (28% H₂O) 5-50
Plastisol
Dicetyl phthalate 40-40
Epoxyed Soybean Oil 0-10
Polyvinyl Chloride Resin 50-70
Trash, mgs, bags, plastic
Wood, gloves, paper, steel lines, 0-15
clothing, etc.

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>0</u>	Silver (Ag)	<u>0</u>
Barium (Ba)	<u>0</u>	Copper (Cu)	<u>0</u>
Cadmium (Cd)	<u>0</u>	Nickel (Ni)	<u>0</u>
Chromium (Cr)	<u>0</u>	Zinc (Zn)	<u>0</u>
Lead (Pb)	<u>0</u>		
Mercury (Hg)	<u>0</u>		
Selenium (Se)	<u>0</u>		

INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u>0</u>	Asbestos	<u>0</u>
Sulfide	<u>0</u>		
Chloride	<u>0</u>		
Bisulfite	<u>0</u>		
Sulfite	<u>0</u>		
Sulfate	<u>0</u>		
Phosphate	<u>0</u>		
Fluoride	<u>0</u>		
Bromine	<u>0</u>		
Chlorine	<u>0</u>		

ORGANICS (mg/l or ppm)

Endrin	<u>0</u>	Organohalide	<u>0</u>
Methoxychlor	<u>0</u>	Mercaptans	<u>0</u>
Toxaphene	<u>0</u>		
2,4-D	<u>0</u>		
2,4,5-T	<u>0</u>		
Phenolics	<u>0</u>		
PCBs	<u>0</u>		
Dioxin	<u>0</u>		

ATIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE January 14, 1988 GENERATOR'S SIGNATURE: Mark A Prince

Bill To: G S X - Laurel
Company Contact: Mark A Prince
Container Size: 174.30, 55
EPA Waste No: U028
Generating Process: Manufacturing PVC Resins
Common Name of Waste: Plastisol/Sodium Hydroxide
Rate of Generation: 10 drums per year
Volume in Storage: _____
Is Waste DOT Hazardous: YES 1 1 NO
Proper DOT Shipping Name: Hazardous Waste Liquid, N/A
Hazard Class: ORM-E ID No: N/A
Transportation Equipment: Truck
Placarding: _____

PHYSICAL DESCRIPTION

Physical State: 1 1 Liquid X Semi-solid X Solid may vary
Phases/Layering: X Uni-Layer X Bi-layer 1 Multilayer may vary
Viscosity: X High 1 Medium 1 Low
Type of Solids: X Organic 1 Inorganic X Mixed
Total Solids (wt. %): ≤ 10 SAP Suspended Solids (wt. %): N/A
BTU/lb: 6K % Ash Content: ≤ 15 % Water (by weight): ≤ 40
Flash Point (°F): 200°F Type: _____
Specific Gravity: 1.0 - 1.3
Boiling Point (°C): N/A Freezing Point (°C): N/A
Vapor Pressure (mm Hg @ 24°C): N/A
pH (Avg): ~9 (Range): 8 to 10
Total Alkalinity/Acidity (%): ≤ 1
Odor: Mild
Color: yellow - dark brown, may have trash

HAZARDOUS PROPERTIES

<u>1</u> <u>1</u> <u>Water Reactive</u>	<u>1</u> <u>1</u> <u>Reactive</u>	<u>1</u> <u>1</u> <u>NONE</u>
<u>1</u> <u>1</u> <u>Shock Sensitive</u>	<u>1</u> <u>1</u> <u>Pyrophoric</u>	<u>1</u> <u>1</u> <u>Explosive</u>
<u>1</u> <u>1</u> <u>Radioactive</u>	<u>1</u> <u>1</u> <u>Pesticide Residuals</u>	<u>1</u> <u>1</u> <u>Polymerizable</u>
<u>1</u> <u>1</u> <u>Corrosive</u>	<u>1</u> <u>1</u> <u>Toxic Vapor</u>	<u>1</u> <u>1</u> <u>Ignitable</u>
<u>1</u> <u>1</u> <u>Biological</u>	<u>1</u> <u>1</u> <u>Ecological</u>	<u>1</u> <u>1</u> <u>Pathogen</u>

X Other: Priority Pollutant (U028)

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Avoid prolonged contact
Total Solids ≤ 15%

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

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RECERTIFICATION OF
MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code

CSXL/CSXL/8800351/ /

Instructions: A copy of the M.C.D.S. to be recertified is attached to this Recertification Form. We ask that you complete the remainder of this form and have it signed by an authorized technical contact.

Return this form with any attachments to: MARINE SHALE PROCESSORS, INC.
Post Office Box 1698
Kenner, LA 70063
Attention: Technical Review

A. GENERAL INFORMATION

Generator Name: CSX, LAUREL HD

Telephone: (800) 638-1110 x.0000

Facility Address: 3527 WHISKEY BOTTOM ROAD

USEPA ID: RDD980554653

LAUREL, HD 2007-0000

Name of Waste: PLASTISOL W/50% TON HYDROXIDE

Generating Process: Manufacturing PVC Resins
Title: MATERIALS ROUTING SUPV.

Technical Contact: JILL BEALL JACK FENOE

B. CHANGES OR ADDITIONS SINCE LAST MCDS PREPARATION

- Have you obtained any laboratory analysis of this waste? (If yes, attach results) ☐ yes ☒ no
- Have you changed the raw materials used in the waste generating process? ☐ yes ☒ no
- Have you changed the waste generating process itself? ☐ yes ☒ no
4. Are you aware of any facts or circumstances which have, or reasonably could have, altered the physical or hazardous characteristics, or chemical composition of the waste? ☐ yes ☒ no
5. Are you aware of any human health effects of exposure to the waste not previously described? ☐ yes ☒ no
6. If you answered "yes" to questions 2, 3, 4, or 5, please provide details below:

IF THERE HAVE BEEN ANY SUBSTANTIAL CHANGES, A NEW MCDS MUST BE SUBMITTED.

SHIPPING INFORMATION

Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum (type/size) 17H 30.55

Anticipated Volume: _____ Gals. _____ Cubic Yds. Other 10 drums
Per: ☐ One Time ☐ Week ☐ Month ☐ Quarter ☒ Year

RECERTIFICATION

I am an employee of the generator authorized to sign this Recertification. The information provided in the recertified waste profile sheet attached hereto, and the information supplied above, are complete, true and correct.

Name: Pam Turnbull

Signature: Pam Turnbull

Title: Sales

Date: 3/21/89

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MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document #

SALES (504) 465-3310

MSP CODE:

6-SLD-017

Generator Name G S X Services, Inc.
Facility Address 3527 Whiskey Bottom Road
Laurel, MD 20707

City, State, Zip Laurel, MD 20707
Technical Contact Mark A. Prince
Title Material Routing Supervisor
Telephone NO. 301 953-9583 EXT.
Facility EPA ID # MDD 980 554653

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Sodium Sulfite 85-95
Cobalt Sulfate 1-5
off lignosulfonate 5-15

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>0</u>	Silver (Ag)	<u>0</u>
Barium (Ba)	<u>0</u>	Copper (Cu)	<u>0</u>
Cadmium (Cd)	<u>0</u>	Nickel (Ni)	<u>0</u>
Chromium (Cr)	<u>0</u>	Zinc (Zn)	<u>0</u>
Lead (Pb)	<u>0</u>		
Mercury (Hg)	<u>0</u>		
Selenium (Se)	<u>0</u>		

INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u>0</u>	Asbestos	<u>0</u>
Sulfide	<u>0</u>		
Chloride	<u>0</u>		
Bisulfite	<u>0</u>		
Sulfite	<u>0</u>		
Sulfate	<u>0</u>		
Phosphate	<u>0</u>		
Fluoride	<u>0</u>		
Bromine	<u>0</u>		
Chlorine	<u>0</u>		

ORGANICS (mg/l or ppm)

Enon	<u>0</u>	Organohalide	<u>0</u>
Methoxychlor	<u>0</u>	Mercaptans	<u>0</u>
Toxaphene	<u>0</u>		
2,4-D	<u>0</u>		
2,4,5-T	<u>0</u>		
Phenolics	<u>0</u>		
PCBs	<u>0</u>		
Dioxin	<u>0</u>		
OC	<u>0</u>		

TIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE January 14, 1988 GENERATOR'S SIGNATURE: Mark A. Prince

Bill To: G S X - Laurel
Company Contact: Mark A. Prince
Container Size: 21C-30, 30 17H-30, 55
EPA Waste No: Not Regulated By EPA
Generating Process: Unused Product
Common Name of Waste: Olin 1803
Rate of Generation: 5 drums PER year
Volume in Storage: IN
Is Waste DOT Hazardous: YES ☒ NO
Proper DOT Shipping Name: Non Regulated Material
Hazard Class: None ID No: None
Transportation Equipment: Truck
Placarding:

PHYSICAL DESCRIPTION

Physical State: ☐ Liquid ☐ Semi-solid ☒ Solid
Phases/Layering: ☒ Uni-Layer ☐ Bilayer ☐ Multilayer
Viscosity: ☒ High ☐ Medium ☐ Low
Type of Solids: ☐ Organic ☒ Inorganic ☐ Mixed
Total Solids (wt. %): 100 Suspended Solids (wt. %): N/A
BTU/lb: <1K % Ash Content: 95 % Water (by weight): <5
Flash Point (°F): N/A Type:
Specific Gravity: 1.5-1.7
Boiling Point (°C): N/A Freezing Point (°C): N/A
Vapor Pressure (mm Hg @ 24°C): N/A
pH (Avg): 9 (Range): 8 to 10 (aqueous)
Total Alkalinity-Acidity (%): N/A
Odor: Slight
Color: white - grey powder, lumps, chunks

HAZARDOUS PROPERTIES

☒ NONE
☐ Water Reactive ☐ Reactive ☐ Explosive
☐ Shock Sensitive ☐ Pyrophoric ☐ Polymerizable
☐ Radioactive ☐ Pesticide Residuals ☐ Ignitable
☐ Corrosive ☐ Toxic Vapor ☐ Pathogen
☐ Biological ☐ Etiological
☐ Other:

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Avoid prolonged contact
Keep from oxidizers.

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

MSP FORM 1048 (REV. JUNE 87)

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RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code

CSXL/CSXL/8800348/ /

Instructions: A copy of the M.C.D.S. to be recertified is attached to this Recertification Form. We ask that you complete the remainder of this form and have it signed by an authorized technical contact.

Return this form with any attachments to: MARINE SHALE PROCESSORS, INC.

Post Office Box 1698
Kenner, LA 70063
Attention: Technical Review

A. GENERAL INFORMATION

Generator Name: CSX, LAUREL ND

Telephone: (800) 638-4440 x.0000

Facility Address: 3527 WHISKEY BOTTOM ROAD

USEPA ID: ND980554653

LAUREL, ND 58007-0000

Name of Waste: OLIN 1803

Generating Process: Unused Product
Title: MATERIALS ROUTING SUPV.

Technical Contact: JILL BEALL JACK KENOE

B. CHANGES OR ADDITIONS SINCE LAST MCDS PREPARATION

- Have you obtained any laboratory analysis of this waste? (If yes, attach results) ☐ yes ☒ no
- Have you changed the raw materials used in the waste generating process? ☐ yes ☒ no
- Have you changed the waste generating process itself? ☐ yes ☒ no
4. Are you aware of any facts or circumstances which have, or reasonably could have, altered the physical or hazardous characteristics, or chemical composition of the waste? ☐ yes ☒ no
5. Are you aware of any human health effects of exposure to the waste not previously described? ☐ yes ☒ no
6. If you answered "yes" to questions 2, 3, 4, or 5, please provide details below:

IF THERE HAVE BEEN ANY SUBSTANTIAL CHANGES, A NEW MCDS MUST BE SUBMITTED.

SHIPPING INFORMATION

Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum (type/size) 21C - 20,30 / 17H - 30,65

Anticipated Volume: _____ Gals. _____ Cubic Yds. Other 5 drums
Per: ☐ One Time ☐ Week ☐ Month ☐ Quarter ☒ Year

RECERTIFICATION

I am an employee of the generator authorized to sign this Recertification. The information provided in the recertified waste profile sheet attached hereto, and the information supplied above, are complete, true and correct.

Name: Pam Turnbull

Signature: Pam Turnbull

Title: Sales

Date: 3/21/89

DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 905397

Please print or type. (Form designed for use on site (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. NYDA8279798700000		Manifest No. 905397		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address U.S. Postal Service 1050 Parkside Street Brooklyn, NY 11256											
4. Generator's Phone (203) 1285 7254											
5. Transporter 1 Company Name Horwith Trucking											
6. US EPA ID Number PA006403581A											
7. Transporter 2 Company Name											
8. US EPA ID Number											
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380											
10. US EPA ID Number LA0981057706											
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. RQ Hazardous Waste Solid N.O.S. ORM - E NA 9189						No. 2101		Type D		Y	
b.											
c.											
d.											
15. Special Handling Instructions and Additional Information N.Y. Permit PA-015											
IF UNABLE TO DELIVER, RETURN TO GENERATOR											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name STEVEN T. SOBSTYL						Signature <i>Steven T. Sobstyl</i>			Month Day Year 10/4/90		
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name Dale Gorr						Signature <i>Dale Gorr</i>			Month Day Year 10/4/90		
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name						Signature			Month Day Year		
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.											
Printed/Typed Name GINA BASSETT						Signature <i>Gina Bassett</i>			Month Day Year 10/4/90		

EPA Form 8700-22 (Rev. 9-88) WHITE - DEQ, GR - Generator, YELLOW - TSDRF, BLUE - Transporter 2, PIN - Transporter 1, GOLD - Generator DEQ FORM HW-3 (R 9-88)

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST 013855

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	2. Page 1 of 1	3. Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address		U.S. POSTAL SERVICE 1050 FORBELL ST. BROOKLYN NY 11256	4. State Manifest Document Number	013855
4. Generator's Phone		(203) 385-7254	5. State Generator's ID No.	NY 1256
5. Transporter 1 Company Name		Horwith Trucking	6. State Transporter's ID No.	PA 2586
7. Transporter 2 Company Name			7. State Transporter's ID No.	(215) 261-2220
9. Designated Facility Name and Site Address		MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380	8. State Facility's ID No.	LA 0101
		10. US EPA ID Number	9. State Facility's Phone	(504) 631-3161
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit
a. R.O. HAZARDOUS WASTE SOLID NOS ORM-E NA 9189		No. Type	Quantity	Wt/Vol
		0101 DIT	0100120	Y
b.				
c.				
d.				
15. Special Handling Instructions and Additional Information		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		
Trailer plate IT 12586		N.Y. PERMIT PA-015		
IF UNABLE TO DELIVER, RETURN TO GENERATOR				
17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name STEVEN T SOBSTYL		Signature Steven T Sobstyl		Month Day Year 04/20/90
Printed/Typed Name KEITH RITZ		Signature Keith Ritz		Month Day Year 04/20/90
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.				
Printed/Typed Name GINA BARNES		Signature Gina Barnes		Month Day Year 04/25/90

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 4307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO 918880

Press print or type. (Form designed for use on 11x17 (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest of 1	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address		U S Postal Service 1050 Forbell Street Brooklyn, N.Y. 11256		A. State Manifest Document Number 918880	
4. Generator's Phone		603 1285-7254		B. State Generator's ID	
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID	
Horwith Trucking		PA 064 035 819		PA-29241	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
				(215) 261-2220	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Transporter's ID	
MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		LA 0981057706		F. State Facility's ID	
				G. Facility's Phone	
				(504) 631-3161	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	14. Unit
a. R.Q. Hazardous Waste Solid N.O.S. ORM - E NA 9189		No. Type		0 0 0 2 0	Y
b.					
c.					
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above			
PRODUCT CODE DENV/US-BR/9002053		RECYCLE / REUSE			
15. Special Handling Instructions and Additional Information					
N.Y. Permit PA-015					
IF UNABLE TO DELIVER, RETURN TO GENERATOR					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name		Signature		Month Day Year	
STEVEN T SOBSTIL		[Signature]		04/23/90	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
Printed/Typed Name		Signature		Month Day Year	
LONNY J BEYFOGLE		[Signature]		04/23/90	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name		Signature		Month Day Year	
GINA BARNETT		[Signature]		04/25/90	

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 4410
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST 013856

Use print or type. (Form designed for use on effie (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NY D 9 8 2 7 9 7 9 8 7 0 0 0 0 1 4	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address US. POSTAL SERVICE 1050 FORBELL ST Brooklyn NY 11256		4. Generator's Phone (203) 285 7254		
5. Transporter 1 Company Name Horwith Trucking	6. US EPA ID Number PAID 016140358119	7. Transporter 2 Company Name		
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA D 9 8 1 0 5 7 7 0 6		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. R.Q. Hazardous Waste Solid N.O.S. ORM-E NA 9189		12. Containers No. Type 0101 DT 0101020	13. Total Quantity 0101020	14. Unit Y
15. Additional Descriptions for Materials Listed Above Product Code DENV/US-BR/9002053		16. Handling Codes for Wastes Listed Above F002, F003, F005		
15. Special Handling Instructions and Additional Information Trailer Plate FS25371 NY PERMIT PA-05				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.				
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name STEVEN T SOBSTYL Signature Steven T Sobstyl Month Day Year 10/4/2010		18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name STEVE MOONEY Signature Steve Mooney Month Day Year 10/4/2010		
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name GILIA BASIN Signature G. Basin Month Day Year 10/4/2010				

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NYD982797987010002

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
✓ US POSTAL SERVICE
✓ 1050 FORBELL ST.
BROOKLYN NY 11256

4. Generator's Phone (203) 285-7254

5. Transporter 1 Company Name HORWITH TRUCKING

6. US EPA ID Number PAID044035819

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380

10. US EPA ID Number LAID981057706

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)
R.O. HAZARDOUS WASTE SOLID N.O.S.
ORM - E NA 9189

12. Containers
No Type 01011 DIT 010101210 Y

13. Total Quantity

14. Unit WWVol

15. Special Handling Instructions and Additional Information
Trailer plate # TN33090 N.Y. PERMIT PA-015
IF UNABLE TO DELIVER, RETURN TO GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name STEVEN T SOBSTYL ✓ Signature Steven T Sobstyl Month Day Year 10/4/2090

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name E. Solderitz VR ✓ Signature E. Solderitz Month Day Year 10/4/2090

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name GINA FUSSEN ✓ Signature Gina Fussen Month Day Year 10/4/2090

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST 013853

Please print or type. (Form designed for use on site (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NYD98279798700009		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address U.S. POSTAL SERVICE 1050 FORBELL ST BROOKLYN NY 11256		4. Generator's Phone (203) 285-7254		5. State Manifest Document Number 013853		6. State Generator's ID No. SAME	
5. Transporter 1 Company Name HORNWITH TRUCKING		6. US EPA ID Number PAID0164035819		7. State Transporter's ID No. PA-178959		8. State Transporter's Phone (215) 226-2220	
7. Transporter 2 Company Name		8. US EPA ID Number		9. State Transporter's ID No.		10. State Transporter's Phone	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LAID981057706		11. State Facility's ID No.		12. State Facility's Phone (504) 631-3161	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. R.Q. HAZARDOUS WASTE SOLID NO.5 ORM-E NA 9189		12. Containers No. Type 0101 DIT 900240		13. Total Quantity Y		14. Unit Wt/Vol FOO FOO3 FOO5	
b.							
c.							
d.							
15. Additional Descriptions for Materials Listed Above PRODUCT CODE DENY/US-BR/9002053		16. RECYCLE/REUSE		17. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Trailer plate # (PA) TT78959 IF UNABLE TO DELIVER, RETURN TO GENERATOR		N.Y. PERMIT PA-015					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name STEVEN T SOBSTYL		Signature Steven T Sobstyl		Month Day Year 10/4/2019			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Dale Gorr		Signature Dale Gorr		Month Day Year 10/4/2019			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year			
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name GINA BARRETT		Signature Gina Barrett		Month Day Year 10/4/25/90			

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST 013888

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0079 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MD 982798987000015		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address US POSTAL SERVICE 1050 FORBELL ST. BROOKLYN NY 11256		4. Generator's Phone (203) 285 7254		5. Transporter 1 Company Name HORWITH TRUCKING		6. Transporter 1 US EPA ID Number PA 01064035819	
7. Transporter 2 Company Name		8. Transporter 2 US EPA ID Number		9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. Facility's US EPA ID Number LA 0981057706	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. RQ Hazardous Waste Solid, N.A.S. ORM-E NA 9189		12. Containers No. Type 0011 DT000210 Y		13. Total Quantity		14. Unit Wt/Vol Y	
b.							
c.							
d.							
15. Special Handling Instructions and Additional Information Trailerplate # TV 34339 IF UNABLE TO DELIVER, RETURN TO GENERATOR		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.		17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: THOMAS R. Markley Signature: [Signature] Month Day Year: 04/20/90		18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: [Blank] Signature: [Blank] Month Day Year: [Blank]	
19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name: GINA ROSEN Signature: [Signature] Month Day Year: 04/25/90		21. Facility's US EPA ID Number		22. State Facility's ID No.	

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST No. 918886

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039, E-8-80-81

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address		U S Postal Service 285-7254 1050 Forbell Street Brooklyn, N.Y. 11256		A. State Manifest Document Number 918886	
4. Generator's Phone (203)		6. US EPA ID Number PAD 064035819		B. State Generator's ID SAME	
5. Transporter 1 Company Name HORWITH TRUCKING		7. Transporter 2 Company Name		C. State Transporter's ID 1595128	
8. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		9. US EPA ID Number LAD 981057706		D. State Transporter's ID 261-2220	
10. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		11. Containers		12. Total Quantity	
a. R.Q. Hazardous Waste Solid N.O.S. ORM - E NA 9189		No. Type		Unit Wt/Vol	
b.		0 0 1 D T		0 0 0 2 10 Y	
c.					
d.					
13. Additional Descriptions for Materials Listed Above		14. Handling Codes for Wastes Listed Above		15. Special Handling Instructions and Additional Information	
PRODUCT CODE: DENV/US-BR/9002053		RECYCLE / REUSE		N.Y. Permit PA-015 IF UNABLE TO DELIVER, RETURN TO GENERATOR	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials		19. Discrepancy Indication Space	
Printed/Typed Name STEVEN T SORSTYL		Signature <i>[Signature]</i>		Month Day Year 04/23/90	
Printed/Typed Name Frank Knappenberg		Signature <i>[Signature]</i>		Month Day Year 10/4/23/90	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		Printed/Typed Name GINA MASSEY		Signature <i>[Signature]</i>	
				Month Day Year 04/25/90	

EPA Form 870-22 (Rev. 8-89)

WHITE - DEO GREEN - GENERALLY YELLOW - TONER BLUE -

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. APR 16 1990

110 James Drive West, Suite 120

St. Rose, LA 70087

504-465-3310

9002053

9002053

For MSP Use Only

Approval Code

A. Generator Information

Generator Name U.S. Postal Service
Site Address Forbell Street
City Brooklyn State N.Y. Zip Code 11208
Generator Contact Rich Izzo
Title Project Manager
Telephone No. (516) 674-3889
Facility EPA ID No. NYD-982797987

B. Customer Information

Company Name Direct Environmental
Contact Richard V. Taylor
Address 66-b Otis Street
West Babylon, N.Y. 11704
Telephone No. (516) 253-0900
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) F002, F003, F005

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>soil, Dirt</u>	<u>95</u>	<u>100%</u>
<u>Water, as absorbed Moisture</u>	<u>0</u>	<u>5%</u>
<u>Solvents: Trichloroethylene, Tetrachloroethene,</u>	<u>0</u>	<u>200ppm</u>
<u>Toluene, Ethyl benzene, Xylene</u>		

Common Name of Waste: Soil contaminated with solvents

E. General Characteristics

Color: Brown
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %) > 80% Water (Wt %) ☐ < 1 ☐ 5-10 ☐ 11-15 ☐ > 10
BTU's per lb (list actual value) negligible Specific Gravity ☐ < 0.8 ☒ 1.2-1.4 ☐ 1.0-1.1 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ > 1.7
Viscosity (for bulk liquids only) list actual in centipoise cp
Total Suspended Solids (Wt % for bulk liquids only) ☐ 1-5 ☐ 15-20 ☐ > 20
pH ☐ 2-6 ☒ 6-10 ☐ 11-12.5 ☐ < 2 or > 12.5

Flash Point (closed cup) ☐ < 100°F ☒ > 200°F ☐ 100-140°F ☐ 140-200°F actual
Sulfur (Wt %) ☒ < 5 ☐ > 5 list actual value
Halogens (Wt %) ☐ < 1 ☐ 1-5 ☐ 5-10 ☐ > 10 list actual Wt %
☐ Iodine ☒ ☐ ☐
☐ Bromine ☒ ☐ ☐
☐ Chlorine ☒ ☐ ☐
☐ Fluorine actual Wt %

Metals: EP Toxicity Test (MG/L)

Arsenic (As) 0.006
Barium (Ba) 0.25
Cadmium (Cd) 0.003
Chromium (Cr) 0.03
Lead (Pb) 0.13
Mercury (Hg) < 0.001

Selenium (Se) < 0.005
Silver (Ag) < 0.01
Copper (Cu) -
Nickel (Ni) -
Zinc (Zn) -

Organics (ppm)

Endrin -
Lindane -
Methoxychlor -
Toxaphene -
2,4 D -
2,4,5-TP (Silvex) -

If material contains the following compounds, indicate actual ppm:
PCB 0-20ppm
Cyanides < 2mg/kg
Sulfides < 2mg/kg
Dioxin -

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ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C900682/2

03/20/90

C.A. Rich Consultants, Inc.
404 Glen Cove Avenue
Sea Cliff, NY 11579

ATTN: Rich Izzo

SSSOURCE OF SAMPLE: Dematteis Site-Brooklyn
COLLECTED BY: Client DATE COL'D: 03/01/90 RECEIVED: 03/02/90

SAMPLE: Water sample, CD-3

ANALYTICAL PARAMETERS

Chloromethane	ppm	<1
Bromomethane	ppm	<1
Dichlorodifluoromethane	ppm	<2
Vinyl Chloride	ppm	<1
Chloroethane	ppm	<1
Methylene Chloride	ppm	<1
Trichlorofluoromethane	ppm	<2
11 Dichloroethene	ppm	<1
11 Dichloroethane	ppm	<1
2 Dichloroethene	ppm	<1
loroform	ppm	<1
12 Dichloroethane	ppm	<1
111 Trichloroethane	ppm	<1
Carbon Tetrachloride	ppm	<1
Bromodichloromethane	ppm	<1
12 Dichloropropane	ppm	<1
t 13 Dichloropropene	ppm	<2
Trichloroethylene	ppm	<1
Chlorodibromomethane	ppm	<2
112 Trichloroethane	ppm	<2
c 13 Dichloropropene	ppm	<2
2chloroethvinylether	ppm	<2
Bromoform	ppm	<2
1122Tetrachloroethan	ppm	<2
Tetrachloroethene	ppm	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ppm	<2
13 Dichlorobenzene	ppm	<2
12 Dichlorobenzene	ppm	<2
14 Dichlorobenzene	ppm	<2
Benzene	ppm	<1
Toluene	ppm	450
Ethyl Benzene	ppm	11000
m Xylene	ppm	8800
o+p Xylene	ppm	4900

CC1

REMARKS:

DIRECTOR

[Signature]

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377 SHEFFIELD AVE. C.R. DILLON

03/20/90

LAB NO. C900602/5

C.A. Rich Consultants, Inc.
404 Glen Cove Avenue
Sea Cliff, NY 11579

ATTN: Rich Izzo

SOURCE OF SAMPLE: Dematteis Site-Brooklyn (leptox metals)
COLLECTED BY: Client DATE COL'D: 03/02/90 RECEIVED: 03/02/90

SAMPLE: Soil sample, P02, composite pile 02

ANALYTICAL PARAMETERS	
Arsenic as As	mg/L. 0.006
Barium as Ba	mg/L. 0.14
Cadmium as Cd	mg/L. <0.001
Chromium as Cr	mg/L. <0.02
Lead as Pb	mg/L. <0.01
Mercury as Hg	mg/L. <0.001
Selenium as Se	mg/L. <0.005
Silver as Ag	mg/L. <0.01

ANALYTICAL PARAMETERS	
Flash Point	deg C >100
pH	units 8.3
Cyanide as CN	mg/Kg <2
Sulfide as S	mg/Kg <2

CC:

REMARKS: Analysis performed on EP Extract according to
USEPA EP Toxicity procedure (40 CFR Part 261-Appen. II).

DIRECTOR

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SENT BY:

04-12-90 07:07:11

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C900682/5

03/20/90

C.A. Rich Consultants, Inc.
404 Glen Cove Avenue
Sea Cliff, NY 11579

ATTN: Rich Izzo

SOURCE OF SAMPLE: Dematteis Site-Brooklyn
COLLECTED BY: Client DATE COL'D: 03/02/90 RECEIVED: 03/02/90

SAMPLE: Soil sample, P02, composite pile 02

ANALYTICAL PARAMETERS

Arochlor 1016	mg/Kg	0.3
Arochlor 1221	mg/Kg	<0.1
Arochlor 1232	mg/Kg	<0.1
Arochlor 1242	mg/Kg	<0.1
Arochlor 1248	mg/Kg	<0.1
Arochlor 1254	mg/Kg	0.5
Arochlor 1260	mg/Kg	<0.1

ANALYTICAL PARAMETERS

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REMARKS:

DIRECTOR

John R. Glantz

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ECOLYST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • H. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C900682/13

03/20/90

C.A. Rich Consultants, Inc.
404 Glen Cove Avenue
Sea Cliff, NY 11579

ATTN: Rich Izzo

SSSOURCE OF SAMPLE: Demotte's Site-Brooklyn
COLLECTED BY: Client DATE COL'D: 03/02/90 RECEIVED: 03/02/90

SAMPLE: Soil sample, P02A, composite pile 02

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<10
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<5
Trichlorofluomethane	ug/Kg	150
11 Dichloroethene	ug/Kg	<5
11 Dichloroethane	ug/Kg	<5
12 Dichloroethene	ug/Kg	230
Chloroform	ug/Kg	<5
Dichloroethane	ug/Kg	<5
11 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	9
12 Dichloropropane	ug/Kg	<5
13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	3800
Chlorodibromomethane	ug/Kg	<10
112 Trichloroethane	ug/Kg	<10
13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	1500

ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<10
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	5300
Ethyl Benzene	ug/Kg	3800
m Xylene	ug/Kg	5700
o+p Xylene	ug/Kg	7800

cc:

REMARKS:

DIRECTOR

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ECOTEST LABORATORIES, INC.**ENVIRONMENTAL TESTING**

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C900682/6

03/20/90

C.A. Rich Consultants, Inc.
404 Glen Cove Avenue
Sea Cliff, NY 11579

ATTN: Rich Izzo

SOURCE OF SAMPLE: Dematteia Site-Brooklyn (leptox metals)
COLLECTED BY: Client DATE COL'D: 03/02/90 RECEIVED: 03/02/90

SAMPLE: Soil sample, P03, composite pile 03

ANALYTICAL PARAMETERS

Arsenic as As	mg/L	<0.005
Barium as Ba	mg/L	0.20
Cadmium as Cd	mg/L	<0.002
Chromium as Cr	mg/L	<0.02
Lead as Pb	mg/L	0.032
Mercury as Hg	mg/L	<0.001
Selenium as Se	mg/L	<0.005
Silver as Ag	mg/L	<0.01

Flash Point	deg C	>100
pH	units	7.8
Cyanide as CN	mg/Kg	<2
Sulfide as S	mg/Kg	<2

ANALYTICAL PARAMETERS

cc:

REMARKS: • Analysis performed on EP Extract according to
USEPA EP Toxicity procedure (40 CFR Part 261-Appen. II).

DIRECTOR

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ECOTEST LABORATORIES, INC.**ENVIRONMENTAL TESTING**

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C900682/6

03/20/90

C.A. Rich Consultants, Inc.
404 Glen Cove Avenue
Sea Cliff, NY 11579

ATTN: Rich Izzo

ISSOURCE OF SAMPLE: Demattein Site-Brooklyn
COLLECTED BY: Client DATE COL'D: 03/02/90 RECEIVED: 03/02/90

SAMPLE: Soil sample, P03, composite pile 03

ANALYTICAL PARAMETERS

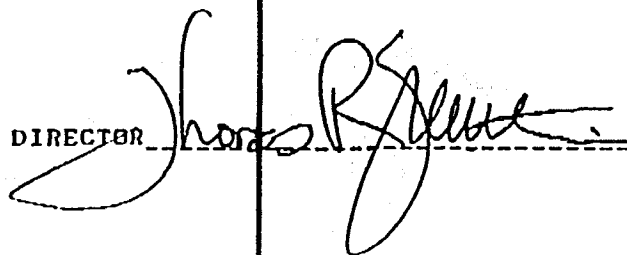
Arochlor 1016	mg/Kg	<0.2
Arochlor 1221	mg/Kg	<0.2
Arochlor 1232	mg/Kg	<0.2
Arochlor 1242	mg/Kg	<0.2
Arochlor 1248	mg/Kg	<0.2
Arochlor 1254	mg/Kg	20
Arochlor 1260	mg/Kg	<0.2

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



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ECOTEST LABORATORIES, INC.**ENVIRONMENTAL TESTING**

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C900682/14

03/20/90

C. A. Rich Consultants, Inc.
404 Glen Cove Avenue
Sea Cliff, NY 11579

ATTN: Rich Izzo

SOURCE OF SAMPLE: Demattoia Site-Brooklyn
COLLECTED BY: Client DATE COL'D: 03/02/90 RECEIVED: 03/02/90

SAMPLE: Soil sample, P03A, composite pile 03

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<10
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<5
Trichlorofluomethane	ug/Kg	80
Dichloroethene	ug/Kg	<5
Dichloroethane	ug/Kg	<5
12 Dichloroethene	ug/Kg	<5
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<5
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<5
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	17
Chlorodibromomethane	ug/Kg	<10
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	43

ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<10
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	8400
Ethyl Benzene	ug/Kg	9300
m Xylene	ug/Kg	51000
o+p Xylene	ug/Kg	49000

CC:

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

APR 12 1991 for MSP Use Only

Approval Code 9002053

A. Generator Information

Generator Name U.S. Postal Service
Site Address Forbell Street
City Brooklyn State N.Y. Zip Code 11208
Generator Contact Rich Izzo
Title Project Manager
Telephone No. (516) 674-3889
Facility EPA ID No. NYD-982797987

B. Customer Information

Company Name Direct Environmental
Contact Richard V. Taylor
Address 66-b Otis Street
West Babylon, N.Y. 11704
Telephone No. (516) 253-0900
For Customer Use

C. Regulatory Information

☒ PCPA Regulated ☒ Land Ban ☐ Non Regulated EPA Waste Code(s) F002, F003, F005

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20% Total in maximum column must be greater than or equal to 100%)

	MIN	MAX
soil, Dirt	95	100%
Water, as absorbed Moisture	0	5%
Solvents: Trichloroethylene, Tetrachloroethene, Toluene, Ethyl benzene, Xylene	0	200ppm

Common Name of Waste: Soil contaminated with solvents

E. General Characteristics

Color: Brown
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
> 80%	☐ < 1 ☐ 1-5 ☐ 10	☐ < 0.8 ☒ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	11.2-6 ☒ 10-16
BTU's per lb	☒ 1-5 ☐ > 10	1108-10 ☐ 11.4-17	list actual in centipoise	115-20	11.10-12.5
(list actual value)		111.0-12 ☐ 11 > 17		if > 20	if < 2 or > 12.5
negligible	list actual	list actual	cp	list actual	list actual

Flash Point (closed cup)

☐ < 100 F ☒ > 200 F
☐ 1100-140 F ☐ actual °F
☐ 1140-200 F

Sulfur (Wt %)

☒ < 5
if > 5 list actual value

Halogens (Wt %)

< 1	1-5	5-10	if > 10 list actual Wt %
☒ Iodine	☐ 11	☐ 17	
☒ Bromine	☐ 11	☐ 17	
☒ Chlorine	☐ 11	☐ 17	
☐ Fluorine	actual	Wt %	

Metals: EP Toxicity Test (MG/L)

Arsenic (As) 0-0.006
Barium (Ba) 0-0.25
Cadmium (Cd) 0-0.003
Chromium (Cr) 0-0.13
Lead (Pb) 0-0.13
Mercury (Hg) < 0.001

Selenium (Se) < 0.005
Silver (Ag) < 0.01
Copper (Cu) N/S
Nickel (Ni) N/S
Zinc (Zn) N/S

Organics (ppm)

Freon N/S
Lindane N/S
Methoxychlor N/S
Toxaphene N/S
2,4-D N/S
2,4,5-T (Silvex) N/S

N/S = None Suspected

If material contains the following compounds, indicate actual ppm:
nca 0-20ppm
Cyanides < 2mg/kg
Sulfides < 2mg/kg
Dioxin N/S

APR 12 1991 (4/16/91)

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H. Notes, Additional Information or Special Handling Instructions

Generating Process: Excavation and removal of paint sludge drums from back-filled site.

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments. Wear appropriate respiratory protection if in a confined space.

J. Shipping Information

DOT Hazardous Material ☒ Y ☐ N

Proper Shipping Name RQ Hazardous Waste Solid

DOT LD. No. (circle one) UN/NA 9189

Hazard Class ORM-E

RD

Anticipated Volume Drums Gal 170 yd³ lbs 11 Bulk? 17 Rail?

Container Size

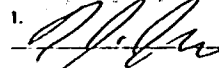
Container Type

Dump trailer

Per ☒ One time ☐ 1 Week ☐ 1 Month ☐ 1 Year ☐ Other

Certification

I hereby certify that the above attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. 

Generator's Signature

2. Richard J. Izzo

Name (Type or Print)

3. 4/13/90

Date

4. Project Manager

Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

 (4/16/90)

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Vol. 19 Exh. 259 Merc. U.S.
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PI Hearing



DIRECT ENVIRONMENTAL INC
290 Sanford Street
East Orange, NJ 07018

(201) 677-1800

66-B Otis ST.
W. Babylon, NY 11704
516-255-0900

Memo

LETTER

To MSP
Attention: Estelle Quijano

Date 4/16/90
Subject Waste Approval
USPS/Brooklyn

Attachee please find the hard copy for the approval you are currently working on. Please let me know ASAP when we can ship.

Thank
RT

☐ Please reply ☐ No reply necessary

SIGNED

MSD007

0893

DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 1307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 900524

Please print or type. (Form designed for use on 8 1/2 x 11 (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address WASHINGTON NAVY YARD NAVAC IMAGING COMMAND NDW ANACOSTIA BLDG 168 RM 125, WASH.		MR. CHUCK SPOONS C/O	900524		
4. Generator's Phone (202) 433-3606 DC 20374-1681					
5. Transporter 1 Company Name EASTERN CHEMICAL WASTE SYSTEMS		6. US EPA ID Number DCD981735244			
7. Transporter 2 Company Name EASTERN CHEMICAL WASTE SYSTEMS		8. US EPA ID Number DCD981735244			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA09810577016			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	
a. HAZARDOUS WASTE SOLID, N.O.S. ORM-E NA9189 (D011R)		001 PH	000980	21 P	
b. HAZARDOUS WASTE SOLID, N.O.S. ORM-E NA9189 (D011R)		001 PH	00010710	21 P	
c.					
d.					
15. Special Handling Instructions and Additional Information A. B. In 55 gal. 17Hrs. IF UNABLE TO DELIVER, RETURN TO GENERATOR		A.10654 B.10652			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Charles A. Spoons		Signature Charles A. Spoons		Month Day Year 10/11/90	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Matthew H. Jones		Signature Matthew H. Jones		Month Day Year 10/11/90	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Roger Hubbard		Signature Roger Hubbard		Month Day Year 10/12/90	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Gail Leonard					
Signature Gail Leonard		Month Day Year 10/12/90			

EPA Form 1700-22 (Rev. 9-91)

Original-DEO. Green-Generator's 2nd, Yellow-Disposer, Pink-Transporter, Gold-Generator 1st

DEQ FORM HW-3 (R 9-91)

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MATERIALS CHARACTERIZATION DATA SHEET

MAXINE SHALE PROCESSORS, INC. FEB 09 1990
110 James Drive West, Suite 120
St. Rose, LA 70087
504 465-3310

For MSP Use Only

Approval Code

9000056

A. General Information

Company Name WASHINGTON NAVY YARD
Address Naval Imaging Command 400 Washington Blvd. 165 24 12
City Washington State DC Zip Code 20374
Generator Contact Charles Sprague
Title _____
Telephone No. (Area) 433-3101
Facility EPA ID. No. DEP000001155

B. Customer Information

Company Name EASTERN CHEMICAL WASTE SYSTEMS
Contact LORI THORNTON
Address 1010 WAYNE AVE. 8TH FLOOR
SILVER SPRING MD 20910
Telephone No. (Area) 636-9555
For Customer Use CRF 10654

C. Regulatory Information

☒ RCRA Regulated

☐ Land Ban

☐ Non-Regulated

EPA Waste Code(s) D011

D. Chemical Composition

NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%

	MIN	MAX
<u>1 gallon wet / used to decontaminate</u>		
<u>silver nitrate 5-10% also poly sulfide</u>	<u>100</u>	<u>100</u>
<u>and truck</u>		

Common name of waste:

E. General Characteristics

Color: white
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phase: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %) not known Water (Wt %) ☐ <1 ☐ 5-10 ☐ >10
BTU's per lb (list actual value) 1-5 ☒ 1-5 ☐ >10
Specific Gravity ☐ <0.8 ☐ 1.0-1.4 ☐ 1.4-1.7 ☒ >1.7
Viscosity (for bulk liquids only) SOLID ☐ 1-5 ☐ 5-10 ☐ >10
Total Suspended Solids (Wt % for bulk liquids only) not known ☐ 5-20 ☐ >20
pH ☐ 2-4 ☒ 6-10 ☐ 10-12.5 ☐ <2 or >12.5

Flash Point (closed cup)

☐ <100°F ☒ >200°F
☐ 100°-140°F ☐ _____ °F
☐ 140°-200°F actual

Sulfur (Wt %)

☒ <5
If > 5 list actual value _____

Halogens (Wt %) <1

☐ Iodine ☐ 1-5 ☐ 5-10 ☐ >10 list actual Wt %
☐ Bromine ☐ _____
☐ Chlorine ☒ 1-5 ☐ 5-10 ☐ >10 list actual Wt %
☐ Fluorine actual Wt % _____

Metals EP Toxicity Test (MCL)

Arsenic (As) LS
Barium (Ba) LS
Cadmium (Cd) LS
Chromium (Cr) LS
Lead (Pb) LS
Mercury (Hg) LS

Selenium (Se) LS
Silver (Ag) LS
Copper (Cu) LS
Nickel (Ni) LS
Zinc (Zn) LS

Organics (ppm)

Endrin LS
Lindane LS
Methoxychlor LS
Toxaphene LS
2,4-D LS
2,4,5-TP (Silvex) LS
If material contains the following compounds, indicate actual ppm:
PCB LS
Cyanides LS
Sulfides LS
Dioxin LS

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MATERIALS CHARACTERIZATION DATA SHEET

MAR 9 1990

MAR 13 1990
MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504 465-3310

For MSP Use Only

Approval Code _____

A. General Information

Company Name Washington Navy Yard
Address Naval Imaging Command 4001 Annapolis, Blvd. 100
City Washington State DC Zip Code 20374
Generator Contact Chuck Spoons
Title _____
Telephone No. (202) 433-3604
Facility EPA ID No. DC P000000155

B. Customer Information

Company Name Eastern Chemical Waste Systems
Contact Lepi Thornton
Address 1010 Wayne Av. 2nd Floor
Silver Spring MD 20910
Telephone No. (202) 636-9555
For Customer Use
CRF 101654

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) D011

D. Chemical Composition

NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%

	MIN	MAX
<u>1 - 6 gallon wet-ver. used to decontaminate</u>		
<u>silver nitrate 5-10% also poly sheeting</u>		
<u>and tyvek</u>	<u>100</u>	<u>100</u>

Common name of waste:

E. General Characteristics

Color: VARIES
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phase: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %) <u>25.40</u>	Water (Wt %) ☐ <1 ☐ 5-10 ☒ 1-5 if > 10	Specific Gravity ☐ <0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☒ 1.0-1.2 ☒ >1.7	Viscosity (for bulk liquids only) list actual in centipoise <u>SOLID</u> cp	Total Suspended Solids (wt % for bulk liquids only) ☐ <5-20 ☒ >20 list actual <u>N/A</u>	pH ☐ 2-6 ☒ 6-10 ☐ 10-12.5 if <2 or >12.5 list actual _____
--	--	---	--	--	--

Flash Point (closed cup)

☐ <100°F ☒ >200°F
☐ 100°-140°F ☐ _____°F
☐ 140°-200°F actual _____°F

Sulfur (Wt %)

☐ <5
if > 5 list actual value _____

Halogens (Wt %) <1

☐ Iodine ☒	1-5	5-10	if >10 list actual Wt %
☐ Bromine ☒	☐	☐	
☐ Chlorine ☒	☐	☐	
☐ Fluorine ☒	actual	Wt %	

Metals: EP Toxicity Test (MQL)

Arsenic (As) LS
Barium (Ba) <100
Cadmium (Cd) LS
Chromium (Cr) LS
Lead (Pb) LS
Mercury (Hg) <0.2

Selenium (Se) <1
Silver (Ag) >5
Copper (Cu) LS
Nickel (Ni) LS
Zinc (Zn) LS

Organics (ppm)

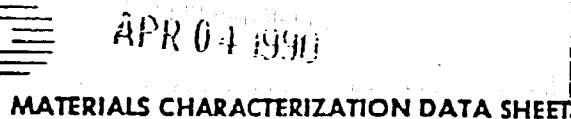
Endrin <u>+</u>	If material contains the following compounds, indicate actual ppm:
Lindane <u>+</u>	
Methoxychlor <u>+</u>	
Toxaphene <u>+</u>	
2,4-D <u>+</u>	
2,4,5-TP (Silvex) <u>+</u>	PCB <u>+</u>
	Cyanides <u>+</u>
	Sulfides <u>+</u>
	Dioxin <u>+</u>

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MANIFESTS

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APR 04 1991

MAR 9 1990

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504 465-3310

For MDP Use Only**Approval Code**

MCDs # 90-0652

A. General Information

Company Name Washington Navy Yard
Address Naval Engineering Command 4001 Annapolis Blvd
City Washington State DC Zip Code 20374
Generator Contact Chuck Spoons
Title Environmental Coordinator
Telephone No. (202) 433-2604
Facility EPA ID. No. DC000020115

B. Customer Information

Company Name Eastern Chapter, D. 113516 Systems
Contact Lsp1 Thornton
Address 10110 Wapato Av. 8th Floor
Silver Spring MD 20910
Telephone No. 1202 1 636-9555
For Customer Use
CEF 10/2/74

C Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) D011

D. Chemical Composition

NO TRADE NAMES - Language must not exceed 20%. Total in minimum column must be greater than or equal to 100%

1 - 6 gallon wet-veg wash to decontaminate
silver nitrate 5-10% also poly sheeting
and tulle

242N

445

10A

103

Common name of waste:

E. General Characteristics

Color: WATERS

Odor: ☒ None ☐ Mild ☐ Strong

☐ Liquid ☐ Sludge ☒ Solid ☐ Powder

Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the weather

Radioactive?	Y (N)	Polymerizable?	Y (N)
Infectious?	Y (N)	Pyrophoric?	Y (N)
Water Reactive?	Y (N)	Explosive?	Y (N)

G. Physical/Chemical Properties

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity (for bulk liquids only)	Suspended Solids (Wt % for bulk liquids only)	pH
2540	☐ < 1 ☐ 5-10	☐ < 0.8 ☐ 1.2-1.4			2-6 6-10
STU's per lb	X 1-5 if > 10	☐ 0.8-1.0 ☐ 1.4-1.7	list actual in centipoise	☐ 5-20	☐ 10-12.5
(list actual value)		☐ 1.0-1.2 X > 1.7		☐ > 20	if < 2 or > 12.5
5700 k	list actual	list actual	SOLID cp	list actual: N/A	list actual

Flash Point (closed cup)

☐ $< 100^{\circ}\text{F}$

☒ $> 200^{\circ}\text{F}$

☐ $100^{\circ}\text{--}140^{\circ}\text{F}$

☐ $140^{\circ}\text{--}200^{\circ}\text{F}$

☐ _____ $^{\circ}\text{F}$
actual

Sulfur (Wt %)
 $\square < 5$
 If > 5 list actual value _____

Halogens (Wt %)	<1	1-5	5-10	if >10 list actual Wt %
Iodine	X	0	0	_____
Bromine	X	0	0	_____
Chlorine	X	0	0	_____
Fluorine	X	actual	Wt %	_____

Molecular BP Toxicity Test (HGV)

Americ (As)	25
Barium (Ba)	137.0
Cadmium (Cd)	112
Chromium (Cr)	52
Lead (Pb)	207
Mercury (Hg)	200.6

Selenium (Se)	<1
Silver (Ag)	>5
Copper (Cu)	<5
Nickel (Ni)	<5
Zinc (Zn)	<5

Organics (ppm)

Endrin +
Lindane +
Methoxychlor +
Toxaphene +
2,4-D +
2,4,5-TP (Silvex) +

If material contains the following compounds, indicate actual parts:

PCB	<u>5</u>
Cyanides	<u>0</u>
Sulfides	<u>15</u>
Dioxin	<u>5</u>

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EASTERN CHEMICAL WASTE SYSTEMS

management of environmental preservation™

CORPORATE HEADQUARTERS
1010 WYOMING AVENUE
EIGHTH FLOOR
SEWELL 34024 MD 20710

PENNSYLVANIA REGIONAL HEADQUARTERS
1701 S. PENNSYLVANIA AVENUE
AMHERSTVILLE PA 15907

PENNSYLVANIA REGIONAL HEADQUARTERS 215 726 9370
BALTIMORE, MD CUSTOMER SERVICE 201 625-2500
BOSTON, VA CUSTOMER SERVICE 804 379 7217
ELIZABETH, NJ CUSTOMER SERVICE 201 362 6240
NEW YORK, NY CUSTOMER SERVICE 201 871 1112
PHILADELPHIA, PA CUSTOMER SERVICE 215 381 6496

AFTER HOURS EMERGENCY 202 616-9555

CORPORATE OFFICE
TOLL FREE 800 641 9967
901 625 2441
FAX 201 625 2452

REMEDIAL ACTION
SUPERFUND CLEAN UPS
ENGINEERED CLEAN UP DESIGNS
HAZARDOUS & TOXIC WASTE DISPOSAL
INCINERATION • TREATMENT • RECYCLING
UNDERGROUND TANK STUDIES & REMOVAL
SPECIAL TRANSPORTATION SERVICES
ANALYTICAL LABORATORY SERVICES
SITE DECONTAMINATION
LAGOON CLEAN OUTS
TANK CLEAN OUTS

Dear Gregg Hane

Concerning the material profiled under MCDS #90-0656, the dimensions of the shop vac (in gallon capacity) are as follows: 24 inches tall, 16 inches wide. The unit, purchased from Sears, is entirely plastic except for the motor which is about the size of a softball and is metallic.

Sincerely,

Clarence L. McIlvaine III, Chemist.
Project Manager.

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Vol. 19 Exh. 264 Merc. U.S.
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MSDOO7

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MATERIALS CHARACTERIZATION DATA SHEET

MASSINE SHALE PROCESSORS, INC. FEB 09 1990

110 Ames Drive West, Suite 120
St. Rose, LA 70087
504 465-3310

For MSP Use Only

Approval Code _____

9000655

A. General Information

Company Name Washington Navy Yard
Address Naval Engineering Command (NED) Installation
City Washington, DC State DC Zip Code 20574
Generator Contact Chuck Speers
Title _____
Telephone No. (202) 433-3606
Facility EPA ID No. DC P0000001155

B. Customer Information

Company Name Emergency Chemical Waste Systems
Contact A. R. R. R.
Address 1616 G. Wayne Ave. S.W. Plaza
Spring Spring, MD
Telephone No. (202) 202-634-9535
For Customer Use
REF 10652

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) D011

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 70% Total in maximum column must be greater than or equal to 100%)

	MIN	MAX
<u>Ceiling Tile</u>		<u>5%</u>
<u>Wool Glass Insulation</u>		<u>10%</u>
<u>Polystyrene</u>		<u>50%</u>
<u>CR. BRICK</u>		
<u>TRUCK TILES</u>		<u>20%</u>
<u>NITRILE GLOVES</u>		<u>5%</u>

Common name of waste: _____

E. General Characteristics

Color: V. GRAY
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☒ Polymerizable? Y ☒ N ☒
Infectious? Y ☒ N ☒ Pyrophoric? Y ☒ N ☒
Water Reactive? Y ☒ N ☒ Explosive? Y ☒ N ☒

G. Physical/Chemical Properties

Ash (list actual Wt %): (100-50) Water (Wt %): ☒ < 1 ☐ 5-10 ☐ > 10
BTU's per lb: < 2K Specific Gravity: ☐ < 0.8 ☐ 0.8-1.0 ☐ 1.0-1.1 ☐ 1.1-1.2 ☒ > 1.2
(list actual value) < 2K list actual _____ list actual _____
Viscosity (for bulk liquids only): (20-100) cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☒ > 20 N/A
pH: ☐ 2-6 ☒ 6-10 ☐ 10-12.5 ☐ < 2 or > 12.5
list actual _____ list actual _____

Flash Point (closed cup)

☐ < 100°F ☒ > 200°F
☐ 100°-140°F ☐ 140°-200°F
actual _____

Sulfur (Wt %)

☒ < 5
if > 5 list actual value _____

Halogens (Wt %)

	1-5	5-10	if > 10 list actual Wt %
☒ Iodine	☐	☐	
☒ Bromine	☐	☐	
☒ Chlorine	☐	☐	
☒ Fluorine	☐	☐	

Metals: EP Toxicity Test (MCL)

Arsenic (As) < 5
Barium (Ba) < 100
Cadmium (Cd) < 1
Chromium (Cr) < 5
Lead (Pb) < 5
Mercury (Hg) < 0.2

Selenium (Se)

< 1
Silver (Ag) > 5
Copper (Cu) < 5
Nickel (Ni) < 5
Zinc (Zn) < 5

Organics (ppm)

Endrin (1)
Lindane (1)
Methoxychlor (1)
Toxaphene (1)
2,4-D (1)
2,4,5-TP (Silvex) (1)
If material contains the following compounds, indicate actual ppm:
PCB 0
Cyanides 0
Sulfides 0
Diarn 0

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HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 918711

Form Approved OMB No. 2050-0036 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address WALTER REED ARMY MEDICAL CENTER C/O RANDY CURTIS DIRECTORATE OF CONTRACTING BLDG T-20 1ST FLOOR 4. Generator's Phone (202) 576-8216 WASHINGTON, D.C. 20307		DC 4210021156	128816		
5. Transporter 1 Company Name EASTERN CHEMICAL WASTE SYSTEMS		6. US EPA ID Number DC 981735244		7. State Transporter's ID Number 202-636-9555	
7. Transporter 2 Company Name EASTERN CHEMICAL WASTE SYSTEMS		8. US EPA ID Number DC D 981735244		9. State Transporter's ID Number 202-636-9555	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA D 981057706		11. Facility's Phone (504) 631-3161	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. WASTE FLAMMABLE SOLID, N.O.S. FLAMMABLE SOLID UN1325 (F003)		1	Q1 DM	1	Q510 P
b.					
c.					
d.					
15. Additional Descriptions for Materials Listed Above ABSORBANT PILLOWS, CARDBOARD AND PAPER CONTAMINATED WITH XYLENE ECW/WEDC/9000781		RECYCLE/REUSE		16. Handling Codes for Wastes Listed Above RANDY CURTIS 202-576-8216	
15. Special Handling Instructions and Additional Information A. In 55 gallon 17H DRUM REMANIFIESTED WHILE IN TRANSIT FROM AR-418127 PER REQUEST OF THE GENERATOR IF UNABLE TO DELIVER, RETURN TO GENERATOR		A. 10309			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Michael (Gasska) AS AGO-5		Signature Michael (Gasska)		Month Day Year 01/10/91	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name ANTHONY BRINSON		Signature Anthony Brinson		Month Day Year 01/30/91	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Roger Hubbard		Signature Roger Hubbard		Month Day Year 10/12/91	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Gail Leonard					
Signature Gail Leonard		Month Day Year 01/31/91			

EPA Form 1700-22 (Rev. 9-78)

WHITE - DEQ, GRE

Generator, YELLOW - TSDRF, BLUE - Transporter 2, PINK

Transporter 1, GOLD - Generator

DEQ FORM HW-3 (R 9-88)

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Vol. 19, Exh. 259, Mele
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PI Hearing
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88888



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. FEB 15 1990
110 James Drive West, Suite 120
St. Rose, LA 70087
504 465-3310

For MSP Use Only

Approval Code _____

A. General Information

Company Name WALTER REED ARMY MEDICAL CENTER
Address BLDG T-201ST FLOOR
City WASHINGTON State DC Zip Code 20307
Generator Contact RANDY CURTIS
Title CONTRACT SPECIALIST
Telephone No. 1202 576-9210
Facility EPA ID No. _____

B. Customer Information

Company Name EASTERN CHEMICAL WASTE SYSTEM
Contact LOUI THORNTON
Address 1010 WAYNE AVE 8TH FLOOR
SILVER SPRING MD 20910
Telephone No. 1202 636-9555
For Customer Use _____

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) F003

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

	MIN	MAX
<u>ABSORBANT PILLOWS, CARBONATED AND PAPER</u>	<u>100</u>	<u>100</u>
<u>CONTAMINATED WITH VULCANITE (10-15%)</u>		

Common name of waste: _____

E. General Characteristics

Color: VARIES
Odor: ☐ None ☐ Mild ☒ Strong SOLVENT
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total	pH
<u>30-40</u>	☒ <1 ☐ 5-10	☐ <0.8 ☐ 1.2-1.4	(for bulk liquids only)	Suspended Solids	☐ 2-6 ☒ 6-10
BTU's per lb	☐ 1-5 if > 10	☐ 0.8-1.0 ☐ 1.4-1.7	list actual in centipoise	(Wt % for bulk liquids only)	☐ 10-12.5
(list actual value)	list actual	☒ 1.0-1.2 ☐ >1.7	<u>SOLID</u> cp	☐ 5-20 ☐ >20	if <2 or >12.5
<u>24K</u>		list actual		list actual	list actual

Flash Point (closed cup)

☐ <100°F ☐ >200°F
☒ 100°-140°F ☐ _____°F
☐ 140°-200°F actual

Sulfur (Wt %)

☒ <5
if > 5 list actual value _____

Halogens (Wt %) <1

☐ Iodine ☒ ☐ 1-5 ☐ 5-10 ☐ >10 list actual Wt %
☐ Bromine ☒ ☐ ☐
☐ Chlorine ☒ ☐ ☐
☐ Fluorine ☒ actual Wt %

Metals: EP Toxicity Test (MG/L)

Arsenic (As) 25
Barium (Ba) <100
Cadmium (Cd) 25
Chromium (Cr) 25
Lead (Pb) 25
Mercury (Hg) <0.2

Selenium (Se) <1
Silver (Ag) 25
Copper (Cu) 25
Nickel (Ni) 25
Zinc (Zn) 25

Organics (ppm)

Endrin ☒
Dieldrin ☒
Methoxychlor ☒
Toxaphene ☒
2,4-D ☒
2,4,5-TP (Silvex) ☒

If material contains the following

compounds, indicate actual ppm:
PCB ☒
Cyanides ☒
Sulfides ☒
Diarsin ☒

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REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
WALTER REED ARMY MEDICAL CENTER
WASHINGTON, D.C. 20307-5001

MAR 01 1990



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February 21, 1990

✓
Mr. Gregg Horne
Marine Shale Processors
110 James Drive West
Suite 120
St. Rose, LA 70087

Dear Mr. Horne:

The purpose of this letter is to certify that EPA
#DC4210021156, Walter Reed Army Medical Center, should be placed
on our MSP profile (Document #9000781).

If you have any questions, please do not hesitate to contact
me.

Sincerely,

John Sale 2/26/90
John Sale
EP/S Inspector

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST 010222

Print or type. (Form designed for use on site (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address FEDERAL RESERVE BANK 410 SOUTH FIFTH STREET LOUISVILLE, KY 40202		K I Y D I 0 7 1 1 3 2 0 6 1 1 8 9 1 0 1 0 1 1			
4. Generator's Phone (502) 568-9254		6. US EPA ID Number		C. State Transporter's ID No.	
5. Transporter 1 Company Name MIDWEST ENVIRONMENTAL TRANSPORT		9 4 9 9 3 9 9 3 9 4 6		D. Transporter's Phone No. 513-874-1144	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID No.	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number		F. Transporter's Phone No.	
L A D 9 8 1 0 5 7 7 0 6				G. State Facility's ID No.	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	
a. WASTE FLAMMABLE LIQUID, N.O.S., OR 1993 FLAMMABLE LIQUID, RQ = 1 LB. (D001, F003, D007, D008)		No Type		Unit Wt/Vol	
		0 0 2 D M		G	
b.					
c.					
d.					
14. Waste No.					
D001, F003, D007, D008					
15. Special Handling Instructions and Additional Information (Please Reference Evergreen's P.O. #891062A) Bill To: The Evergreen Group, Inc., P.O. Box 839, Crestwood, Ky 40014 IF UNABLE TO DELIVER, RETURN TO GENERATOR		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and effect the best waste management method that is available to me and that I can afford.		17. Handling Codes for Wastes Listed Above F001/F002	
18. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name MESKER JAMES B Signature James B Mesker Month Day Year 10/22/1990		19. Discrepancy Indication Space			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name GINA BLISSETT Signature Gina Blissett Month Day Year 10/22/1990					

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DEC 11 1988

MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504 485-3310

For MSP Use Only

Approval Code _____

8906325

A. General Information

Company Name Federal Reserve Bank
Address 410 S. Fifth Street
City Parisville State KY Zip Code 40202
Generator Contact Bob Bratcher
Title Technical Contact
Telephone No. (502) 568-9284
Facility EPA ID. No. LQG

B. Customer Information

Company Name The Evergreen Group
Contact Brent Frymoyer
Address P.O. Box 839
Crestwood, KY 40014
Telephone No. (502) 241-4171
For Customer Use _____

C. Regulatory Information

☒ RCRA Regulated☒ Land Ban☐ Non-RegulatedEPA Waste Code(s) D001, F003, D007, D008

D. Chemical Composition

NO TRADE NAMES - Samples must not exceed 20% Total in maximum column must be greater than or equal to 100%

	MIN	MAX
<u>Sodium chromate</u>	<u>1</u>	<u>10</u>
<u>Compressor oil</u>	<u>85</u>	<u>90</u>
<u>ethyl Benzene</u>	<u>2</u>	<u>3</u>
<u>Xylene</u>	<u>< 1</u>	
<u>Toluene</u>	<u>< 1</u>	
<u>Wetland</u>	<u>< 1</u>	

Common name of waste:

E. General Characteristics

Color Dark Brown-Black
Odor ☒ None ☐ Mild ☐ Strong
☒ Liquid ☐ Sludge ☐ Solid ☐ Powder
Phase ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %) < 10% Water (Wt %) ☒ < 1 ☐ 5-10
BTU's per lb (list actual value) 20,000-22,000 ☐ 1-5 ☐ > 10
Specific Gravity ☐ < 0.8 ☐ 1.2-1.4
☐ 0.8-1.0 ☐ 1.4-1.7
☐ 1.0-1.2 ☐ > 1.7
Viscosity (for bulk liquids only) cp ☐ 5-20 ☐ > 20
Total Suspended Solids (Wt % for bulk liquids only) < 5 pH 4-10
list actual < 5 list actual < 2 or > 12.5

Flash Point (closed cup) < 100°F ☐ > 200°F ☐ > 5 list actual value
☐ 100°-140°F ☐ actual
☐ 140°-200°F
Sulfur (Wt %) 4-5
Halogens (Wt %) ☐ < 1 ☐ 1-5 ☐ 5-10 ☐ > 10 list actual Wt %
☐ Iodine ☐ 0 ☐ 0
☐ Bromine ☒ 0 ☐ 0
☐ Chlorine ☒ 0 ☐ 0
☐ Fluorine ☐ actual Wt %

Metallic EP Toxicity Test (ASTM) MG/KG
Arsenic (As) < 0.05 Selenium (Se) < 0.05
Barium (Ba) 0.05 Silver (Ag) 0.01
Cadmium (Cd) < 0.01 Copper (Cu) 0
Chromium (Cr) 78.28 Nickel (Ni) 0
Lead (Pb) 11.6 Zinc (Zn) 0
Mercury (Hg) 0.0003
Organics (ppm)
Endrin 0 If material contains the following compounds, indicate actual ppm:
Lindane 0 PCBs 0
Methoxychlor 0 Cyanides 40 mg/L
Toxaphene 0 Sulfides 5 mg/L
2,4-D 0 Dioxin 0
2,4,5-TP (Silvex) 0

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S *Welding Supply Co.*
COLUMBIA, MISSOURI

[illegible]

04952 103: 31475

202100 07: 00:00

DATE RECEIVED: 10/22/93

4446713 16-0521-9612

003 : 40049 : 10/27, 10

DATE REVISSED: 12/04/89

MARKS: 1g B1k ~~Arms~~ Nales 2530, Nales 2575

What was
Process of generation
of what was is
for
compressor
oil

PARAMETER
BTU
oil
Total Sol
Flashpoint
Sulfide
Cyanide

PARAMETER	CONCENT	DATE	TESTED	ANALYST
BTU	7,160. btu/lb	11/28	----	JS
pH	9.3	11/28	159.1	SN
Total Solids	19. %	11/28	----	RN
Flashpoint	EFF 52° F ? insufficient Sample			
Sulfide	5. mg/l	11/28	9030	ELL
Cyanide	40. mg/l	11/28	9010	PLL

3. 2. Interaction procedure performed as specified in Method 1310 as found in Methods for Evaluating Solid Waste" SW-816, 11/76.

Arsenic	< 0.05	mg/kg	11/30	6010	JON
Barium	0.05	mg/kg	11/30	6010	JON
Cadmium	< 0.01	mg/kg	11/30	6010	JON
Chromium	73.43	mg/kg	11/30	6010	JON
Lead	11.5	mg/kg	11/30	6010	JON
Mercury	0.0003	mg/kg	11/30	7170	JON
Selenium	< 0.05	mg/kg	11/30	6010	JON
Silver	0.01	mg/kg	11/30	6010	JON

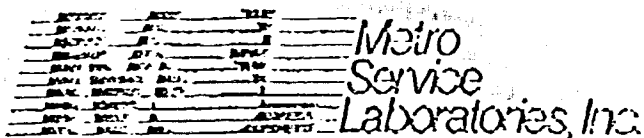
Method for analysis are taken from the U.S. EPA Test Methods for Evaluating Solid Waste. SW 846, Third Edition, Volumes 1A, 1B, 1C, November 85.

REVIEWED BY:

Chemical Analysis and Conclusions

DATE _____

1971-1972



Johns

RECEIVED FROM: Federal Reserve Bank

DATE RECEIVED: 10/20/89

SAMPLE TYPE: Sludge

ANALYSIS NUMBER: 49638

SAMPLED BY: Client

DATE REPORTED: 10/27/89

MARKS: Lg Blk Drum 426-1211
Nalco 2530, Nalco 2575 - 513-772-5300
1-312-961-9500

Prod Lathin -
513-772-5300

PARAMETER	RESULT	DATE	METHOD	ANALYST
Benzene	< 0.5 mg/kg	10/27	8240	DK
Carbon Tetrachloride	< 0.5 mg/kg	10/27	8240	DK
Chlorobenzene	< 0.5 mg/kg	10/27	8240	DK
Chloroform	< 0.5 mg/kg	10/27	8240	DK
F003 Ethyl Benzene	27,000. mg/kg	10/27	8240	DK
F001 Methylene Chloride	318. mg/kg	10/27	8240	DK
1,1,1-Trichloroethane	< 0.5 mg/kg	10/27	8240	DK
F005 Toluene	624. mg/kg	10/27	8240	DK
Trichloroethylene	< 0.5 mg/kg	10/27	8240	DK
Trichloromethane	< 0.5 mg/kg	10/27	8240	DK
Tetrachloroethylene	< 0.5 mg/kg	10/27	8240	DK
1,1,2 Trichloro-1,2,2 Trifluoroethane	< 0.5 mg/kg	10/27	8240	DK
Ortho-dichlorobenzene	< 0.5 mg/kg	10/27	8240	DK
F003 Xylene	4,000. mg/kg	10/27	8240	DK
Methyl Ethyl Ketone	9.9 mg/kg	10/27	8240	DK
Ethyl Ether	< 0.5 mg/kg	10/27	8240	DK
Methyl Isobutyl Ketone	< 0.5 mg/kg	10/27	8240	DK
Cyclohexanone	< 0.5 mg/kg	10/27	8240	DK
N-Butyl Alcohol	< 0.5 mg/kg	10/27	8240	DK
Isobutanol	< 0.5 mg/kg	10/27	8240	DK
Carbon Disulfide	< 0.5 mg/kg	10/27	8240	DK
Pyridine	< 0.5 mg/kg	10/27	8240	DK

Epox Metals 25000

Plasticity / Flash point

Method for analysis are taken from the U.S. EPA Test Methods for Evaluating Solid Waste. SW 846, Third Edition, Volumes 1A, 1B, 1C, November 86.

Epox 25000

Plasticity 25000

Flash point 40

Plasticity 40

Chemical Analysis and Consultants

REVIEWED BY:

[Signature]

1300 FARM VALLEY PASS

7715 HIGHWAY 10 WEST

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7416 Hwy. 329
Crestwood, Kentucky 40014

TRANSFERRED FROM: Evergreen Group

SAMPLE TYPE: Sludge

SAMPLED BY: Client

DATE RECEIVED: 12/05/89

LABORATORY NUMBER: 50132

DATE REPORTED: 12/06/89

MARKS: Federal Reserve Bank CH0002 12/05/89 6 12:30 Storage Room

PARAMETER	RESULT	DATE	METHOD	ANALYST
Flash Point (P.M.C.C.)	52.91	12/06	1010	JS

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Methods for analysis are taken from the U.S. EPA, Methods for Chemical Analysis of Water and Waste Water, EPA-823/9-77-020, March 1979

[Handwritten signature]

BOARD OF WATER MANAGEMENT
Tennessee
Analytical Group

NO. 001-001
T.S. 001-1-1-1-1

0907



MATERIAL SAFETY DATA SHEET

PRODUCT

NALCO 2575 COOLING TREATMENT

Emergency Telephone Number

Medical (312) 920-1510 (24 hours)

SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: NALCO 2575 COOLING TREATMENT

DESCRIPTION: An aqueous blend of phosphonates, chromate, substituted triazole, polyglycol and substituted carboxylate

NFPA 704M/HMLS RATING: 1/1 HEALTH 1/1 FLAMMABILITY 0/0 REACTIVITY 0 OTHER
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazard(s).

INGREDIENT(S)	CAS #	APPROX. %
Sodium chromate	7775-11-3	1-10

SECTION 3 PRECAUTIONARY LABEL INFORMATION

Contains Chromium compounds: Cancer hazard based on tests with laboratory animals. Known to the State of California to cause cancer.

WARNING: Causes eye injury and skin irritation. Do not get in eyes. Avoid contact with skin and clothing. Wear goggles or face shield when handling. Avoid prolonged or repeated breathing of vapor. Use with adequate ventilation. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

SECTION 4 FIRST AID INFORMATION

EYES: Immediately flush for at least 15 minutes while holding eyelids open. Call a physician at once.

SKIN: Immediately flush with water for at least 15 minutes. For a large splash, flood body under a shower. Call a physician at once.

INGESTION: Do not induce vomiting. Give water. Call a physician.

INHALATION: Remove to fresh air. Treat symptoms. Call a physician.

NOTE TO PHYSICIAN: No specific antidote is known. Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

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MATERIAL SAFETY DATA SHEET

PRODUCT

NALCO 2575 COOLING TREATMENT

Emergency Telephone Number

Medical (312) 920-1510 (24 hours)

SECTION 6 TOXICOLOGY INFORMATION

(CONTINUED)

SKIN SENSITIZATION: Chromium has been shown to cause allergic contact dermatitis.

CHRONIC TOXICITY RESULTS: Experimental animal data is positive for mutagenicity, teratogenicity and carcinogenicity for hexavalent chromium oxide.

SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	Yellow	FORM:	Liquid	ODOR:	Mild sweet
DENSITY:	9.6 - 9.8 lbs/gal.				
SOLUBILITY IN WATER:	Completely				
SPECIFIC GRAVITY:	1.19 @ 60 Degrees F			ASTM D-1298	
pH (NEAT) =	10.7			ASTM E-70	
VISCOSITY:	4.7 cps @ 60 Degrees F			ASTM D-2983	
FREEZE POINT:	25 Degrees F			ASTM D-1177	
MELTING POINT:	Greater than 25 Degrees F			ASTM D-2117	
FLASH POINT:	Greater than 200 Degrees F (PMCC)			ASTM D-93	

NOTE These physical properties are typical values for this product.

SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: Greater than 200 Degrees F (PMCC) ASTM D-93

EXTINGUISHING MEDIA: This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable.

UNUSUAL FIRE AND EXPLOSION HAZARD: If the water is driven off, the remaining organics may be ignitable. Contact with reactive metals (eg. aluminum) may result in the generation of flammable hydrogen gas.

SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY: None

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO₂, NO_x may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection is not normally needed

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MATERIAL SAFETY DATA SHEET

PRODUCT

NALCO 2575 COOLING TREATMENT

Emergency Telephone Number

Medical (312) 920-1510 (24 hours)

SECTION 12 ENVIRONMENTAL INFORMATION

(CONTINUED)

96 hour static acute LC50 to Bluegill Sunfish = Greater than 1,000 ppm
48 hour static acute LC50 to Bluegill Sunfish = Greater than 1,000 ppm
24 hour static acute LC50 to Bluegill Sunfish = Greater than 1,000 ppm

96 hour no observed effect concentration is 320 ppm based on no mortality or abnormal effects.

96 hour static acute LC50 to Rainbow Trout = 355 ppm
48 hour static acute LC50 to Rainbow Trout = Greater than 560 and less than 1,000 ppm
24 hour static acute LC50 to Rainbow Trout = Greater than 560 and less than 1,000 ppm

96 hour no observed effect concentration is less than 180 ppm based on no mortality or abnormal effects.

If released into the environment, see CERCLA in Section 14.

SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ORM-E NA 9188
CONTAINS - SODIUM CHROMATE

SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product.

FEDERAL REGULATIONS:

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:
Based on our hazard evaluation, the following ingredient in this product is hazardous and the reason is shown below.

Sodium chromate - Sensitizer, cancer hazard based on tests with laboratory animals (refer to Section 5)

Sodium chromate, as Cr (water soluble) = TWA 0.05 mg/m3 ACGIH/TLV

Sodium chromate (as CrO3) = Ceiling 0.1 ppm OSHA/PEL

CERCLA, 40 CFR 117, 302:

This product contains sodium chromate, a Reportable Quantity (RQ) substance

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MATERIAL SAFETY DATA SHEET

PRODUCT

NALCO 2575 COOLING TREATMENT

Emergency Telephone Number

Modical (312) 920-1510 (24 hours)

SECTION 14 REGULATORY INFORMATION

(CONTINUED)

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:
This product does meet the criteria of a hazardous waste as defined under RCRA 40 CFR 261 (consult Section 11).

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15
(formerly Sec. 307), 40 CFR 116 (formerly Sec. 311):

This product contains the following ingredient covered by the Clean Water Act:

Chromium and chromium compounds (as Cr) - Section 307, 311

CLEAN AIR ACT, 40 CFR 60, Section 111, 40 CFR 61, Section 112:

This product does not contain ingredients covered by the Clean Air Act.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

This product contains a chromium compound, known to the State of California to cause cancer (refer to Section 2 and 3 of the MSDS).

MICHIGAN CRITICAL MATERIALS:

This product contains the following substance(s) identified on the Michigan Critical Materials Register:

Sodium chromate

STATE RIGHT TO KNOW LAWS:

Regulated in those states using the TLV, NTP or IARC designation for sodium chromate as a criteria for listing.

SECTION 15 ADDITIONAL INFORMATION

None

SECTION 16 USER'S RESPONSIBILITY

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

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FEB 05 1990

February 1, 1990

Brian Prince
MSP
110 James Drive West, Suite 120
St. Rose, LA 70087

Dear Mr. Prince:

The EPA ID number for the Federal Reserve Bank in Louisville,
Kentucky is:

KYD 071320618

The reference document number for the non-PCB waste compressor
oil is # 8906325.

Sincerely,

Bob Bratcher

Bob Bratcher
Federal Reserve Bank

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 4307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST N° 918081

Please print or type. (Form designed for use on a 12-pitch typewriter.)

Form Approved, OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Unicore Federal Prison Industries 1100 River Rd Petersburg, Va 23806		V A 1 1 5 1 4 1 1 3 8 5 9 9 9 9			
4. Generator's Phone (804) 733-7881 Contact: Sam Wilson					
5. Transporter 1 Company Name WLB Trucking, Inc.		6. US EPA ID Number V A D 9 8 2 7 0 5 0 4 8			
7. Transporter 2 Company Name Tri State Motor Transit		8. US EPA ID Number M O D 0 9 5 0 3 8 9 9 8			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number L A D 9 8 1 0 5 7 7 0 6			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. RQ Waste Paint Related Material NOS (D001) Flammable Liquid UN 1263		No. Type			
b. RQ Waste Paint related Material NOS (D001) Flammable LIQUID UN 1263		0 0 1 P L 0 9 1 5 0 P			
c.		0 0 3 0 M 0 0 1 6 5 G			
d.					
17. Additional Descriptions for Materials Listed Above		18. Handling Codes for Wastes Listed Above			
A) WLVA/FCI/9001786 B) WLVA/FCI/9001767		RECYCLE/REUSE			
15. Special Handling Instructions and Additional Information W. L. Black & Associates P.O. Box 1363 Chesapeake, Va 23320 IF UNABLE TO DELIVER, RETURN TO GENERATOR		Consultant: Jerry Monroe WLBA JOB # UN1001-90-01 (804) 424-7925			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Gerhard R. Grossman		Signature [Signature]		Month Day Year 09/29/90	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name W. T. HOWAKER JR		Signature W. T. Howaker JR		Month Day Year 09/20/90	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name CHARLES CALLEN		Signature [Signature]		Month Day Year 09/12/90	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name NAN CRAMER					
Signature [Signature]		Month Day Year 09/29/90			

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. APR 02 1990 For MSP Use Only
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

9601786

Approval Code _____

A. Generator Information

Generator Name Unicore Federal Prison Industries
Site Address 1100 River Road
City Petersburg State VA Zip Code 23806
Generator Contact Sam Wilson
Title _____
Telephone No. (804) 733-7881
Facility EPA I.D. No. VA1151411385

B. Customer Information

Company Name W. L. Black & Associates
Contact Harry C. Wheeler, Jr.
Address P.O. Box 1363
Chesapeake, VA 23320
Telephone No. (804) 424-7925
For Customer Use _____

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) DX01

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

Commodity Pack - See Inventory	MIN	MAX

Common Name of Waste: _____

E. General Characteristics

Color: _____
Odor: ☐ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☐ Solid ☐ Powder
Phases ☐ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y N Polymerizable? Y N
Infectious? Y N Pyrophoric? Y N
Water Reactive? Y N Explosive? Y N

G. Physical/Chemical Properties

Ash (list actual Wt %) Water (Wt %) Specific Gravity Viscosity Total Suspended Solids pH
(list actual value) ☐ < 1 ☐ 5-10 ☐ < 0.8 ☐ 1.2-1.4 (for bulk liquids only) (Wt % for bulk liquids only) ☐ 2-6 ☐ 6-10
BTU's per lb ☐ 1-5 if > 10 ☐ 0.8-1.0 ☐ 1.4-1.7 list actual in centipoise ☐ 5-20 ☐ 10-12.5
☐ 140°-200°F ☐ 1.0-1.2 ☐ > 1.7 if > 20 if < 2 or > 12.5
list actual list actual cp list actual list actual

Flash Point (closed cup) Sulfur (Wt %) Halogens (Wt %) < 1 1-5 5-10 if > 10 list actual Wt %
☐ < 100°F ☐ > 200°F ☐ < 5 If > 5 list actual value ☐ Iodine ☐ ☐ ☐
☐ 100°-140°F ☐ _____°F ☐ Bromine ☐ ☐ ☐
☐ 140°-200°F actual ☐ Chlorine ☐ ☐ ☐
☐ Fluorine _____ actual Wt %

Metals: EP Toxicity Test (MG/L)

Arsenic (As) _____
Barium (Ba) _____
Cadmium (Cd) _____
Chromium (Cr) _____
Lead (Pb) _____
Mercury (Hg) _____

Selenium (Se) _____
Silver (Ag) _____
Copper (Cu) _____
Nickel (Ni) _____
Zinc (Zn) _____

Organics (ppm)

Endrin _____
Lindane _____
Methoxychlor _____
Toxaphene _____
2,4-D _____
2,4,5-TP (Silvex) _____

If material contains the following compounds, indicate actual ppm:

PCB _____
Cyanides _____
Sulfides _____
Dioxin _____

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MSP LAB PACK INVENTORY

GENERATOR NAME: Unicore Federal Prison Industries DATE: 3-21-90
 GENERATOR LOCATION: 1100 River Road GENERATOR EPA ID: VA 1151411385
 AB PACK CONTAINER NO: UFP - 01 PAGE 1 OF 1
 DOT DESCRIPTION: R.O. Waste Paint Related Material UN/NA NO: UN 1263
 CONTAINER SIZE: N/A (Circle One)
 (30 Gal. or less) CONTAINER TYPE: Palatized
 (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Aerosol Paint Cans	204	13 1/2 oz.	Flammable Liquid	UN1263	D001
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF W. I. Black & Associates
 I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTER-
 IZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL
 COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

SIGNATURE

2. 3-21-90

DATE

Harry C. Wheeler, Jr.
 NAME (Type or Print)

4. Facilities Operation
 TITLE

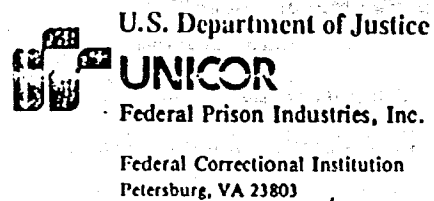
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APR 10 1990



April 9, 1990

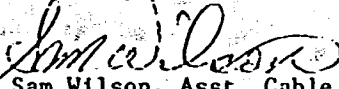
Mr. Russell Preston
Marine Shale Processors
110 James Drive West, Suite 120
St. Rose, Louisiana 70087

RE: File No. 9901786

Dear Mr. Russell:

On April 6, 1990 we sent to you the attached letter. Please note that the EPA number stated in that letter is inaccurate. The correct number is V.A. 1151411385.

Sincerely,


Sam Wilson, Asst. Cable Factory Mgr.
Tel. (804) 733-7881 Ext. 283

SW/dr

cc: file

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. APR 11 1996

110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

For MSP Use Only

Approval Code 9001786

A. Generator Information

Generator Name Unicore Federal Prison Industries
Site Address 1100 River Road
City Petersburg State VA Zip Code 23806
Generator Contact Sam Wilson
Title Program Coordinator
Telephone No. (804) 733-7881
Facility EPA ID No. VA1151411385

B. Customer Information

Company Name W.L. Black & Associates
Contact Harry C. Wheeler, Jr.
Address P.O. Box 1363
Chesapeake, VA 23320
Telephone No. (804) 424-7925
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) D001

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)
Aerosol Paint Cans

MIN 100 MAX 100

Common Name of Waste: Commodity Pack

E. General Characteristics

Color: Varies
Odor: ☒ None ☐ Mild ☐ Strong
☒ Liquid ☐ Sludge ☐ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %) 81 Water (Wt %) ☒ <1 ☐ 5-10 Specific Gravity ☐ <0.8 ☐ 1.2-1.4
BTU's per lb ☐ 1-5 if > 10 ☒ 0.8-1.0 ☐ 1.4-1.7
(list actual value) 11,763 list actual list actual
Viscosity (for bulk liquids only) N/A cp
Total Suspended Solids (Wt % for bulk liquids only) ☐ 5-20 ☐ > 20
pH ☐ 2-6 ☒ 6-10
☐ 10-12.5 if < 2 or > 12.5
list actual N/A list actual

Flash Point (closed cup) ☒ < 100°F ☐ > 200°F ☐ 100°-140°F ☐ 140°-200°F actual
Sulfur (Wt %) ☒ < 5 if > 5 list actual value
Halogens (Wt %) <1 1-5 5-10 if > 10 list actual Wt %
☐ Iodine ☒ ☐ ☐
☐ Bromine ☒ ☐ ☐
☐ Chlorine ☒ ☐ ☐
☐ Fluorine actual Wt %

Metals: EP Toxicity Test (MG/L)

Arsenic (As) N/S Selenium (Se) N/S
Barium (Ba) N/S Silver (Ag) N/S
Cadmium (Cd) N/S Copper (Cu) N/S
Chromium (Cr) N/S Nickel (Ni) N/S
Lead (Pb) N/S Zinc (Zn) N/S
Mercury (Hg) N/S

Organics (ppm)

Endrin N/S
Lindane N/S
Methoxychlor N/S
Toxaphene N/S
2,4-D N/S
2,4,5-TP (Silvex) N/S

If material contains the following

compounds, indicate actual ppm:
PCB N/S
Cyanides N/S
Sulfides N/S
Dioxin

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U.S. Department of Justice
 UNICOR
Federal Prison Industries, Inc.
Federal Correctional Institution
Petersburg, VA 23803

APR 12 1990

April 6, 1990

Mr. Russell Preston
Marine Shale Processors
110 James Drive West, Suite 120
St. Rose, Louisiana 70087

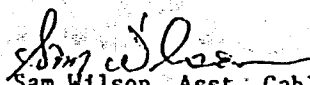
RE: File No. 9901786

Dear Mr. Russell:

This is to advise you that our EPA number is V.A.D. 1151411385. This number is assigned to UNICOR, Federal Prison Industries, Inc.

I hope this clarifies the matter. If you are in need of any more information or assistance please contact me.

Sincerely,


Sam Wilson, Asst. Cable Factory Mgr.
Tel. (804) 733-7881 Ext. 283

SW/dr

cc: file

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. APR 02 1990

110 James Drive West, Suite 120

St. Rose, LA 70087

504-465-3310

For MSP Use Only

Approval Code

9001767

A. Generator Information

Generator Name Unicore Federal Prison Industries

Site Address 1100 River Road

City Petersburg State VA Zip Code 23806

Generator Contact Sam Wilson

Title

Telephone No. (804) 733-7881

Facility EPA I.D. No. VA1151411385

B. Customer Information

Company Name W.L. Black & Associates

Contact Harry C. Wheeler, Jr.

Address P.O. Box 1363

Chesapeake, VA 23320

Telephone No. (804) 424-7925

For Customer Use

C. Regulatory Information

☒ RCRA Regulated

☐ Land Ban

☐ Non-Regulated

EPA Waste Code(s) D001

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>Adhesive</u>	<u>70</u>	<u>75</u>
<u>Ink</u>	<u>10</u>	<u>15</u>
<u>Metal</u>	<u>0</u>	<u>3</u>
<u>Plastic</u>	<u>0</u>	<u>2</u>
<u>Thinner</u>	<u>5</u>	<u>10</u>

Common Name of Waste: Paint Related Materials

E. General Characteristics

Color: Varies

Odor: ☐ None ☒ Mild ☐ Strong

☒ Liquid ☐ Sludge ☐ Solid ☐ Powder

Phases ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y	☒ N	Polymerizable?	Y	☒ N
Infectious?	Y	☒ N	Pyrophoric?	Y	☒ N
Water Reactive?	Y	☒ N	Explosive?	Y	☒ N

G. Physical/Chemical Properties

Ash (first actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
<u>34.63</u>	☒ <1 ☐ 5-10	☐ <0.8 ☐ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 ☒ 6-10
BTU's per lb	☐ 1-5 if > 10	☒ 0.8-1.0 ☐ 1.4-1.7	list actual in centipoise	☐ 5-20	☐ 10-12.5
(first actual value)	list actual	☐ 1.0-1.2 ☐ > 1.7	<u>N/A</u> cp	if > 20	if < 2 or > 12.5
<u>2,710</u>		list actual		list actual	list actual

Flash Point (closed cup)

☒ < 100°F ☐ > 200°F
☐ 100°-140°F ☐ _____ °F
☐ 140°-200°F actual

Sulfur (Wt %)

☒ < 5
if > 5 list actual value

Halogens (Wt %)

☐ Iodine ☒
☐ Bromine ☒
☐ Chlorine ☒
☐ Fluorine actual Wt %

Metals: EP Toxicity Test (M/G/L)

Arsenic (As) N/S
Barium (Ba) N/S
Cadmium (Cd) N/S
Chromium (Cr) N/S
Lead (Pb) N/S
Mercury (Hg) N/S

Selenium (Se) N/S
Silver (Ag) N/S
Copper (Cu) N/S
Nickel (Ni) N/S
Zinc (Zn) N/S

Organics (ppm)

Endrin N/S
Lindane N/S
Methoxychlor N/S
Toxaphene N/S
2,4-D N/S
2,4,5-TP (Silvex) N/S

If material contains the following compounds, indicate actual ppm:
PCB N/S
Cyanides N/S
Sulfides N/S
Dioxin N/S

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST 010631

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 2	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address NAVAL AVIONICS CENTER 6000 EAST 21ST STREET INDIANAPOLIS, IN 46219		4. Generator's Phone (317) 351-4925		A. State Manifest Document Number	
5. Transporter 1 Company Name ETSS, INC.		6. US EPA ID Number 01HID981098379		B. State Generator's ID Number	
7. Transporter 2 Company Name MIDWEST ENVIRONMENTAL TRANSPORT		8. US EPA ID Number 01HID982603946		C. State Transporter's ID Number 51120HW	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA0981057706		D. Transporter's Phone 513/845-3912	
				E. State Transporter's ID Number	
				F. Transporter's Phone 513/876-1166	
				G. State Facility's ID Number	
				H. Facility's Phone (504) 631-3161	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. RQ HAZARDOUS WASTE SOLID NOS ORME NA9189 (U219)		No. Type			U219 R
b.					R
c.					R
d.					R
16. Additional Descriptions for Materials Listed Above ETSS/NAVC/9000322-DFON 21-16 GAL POLY		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information IF UNABLE TO DELIVER, RETURN TO GENERATOR					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name William T. McIntyre		Signature [Signature]		Month Day Year 10/20/90	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name BILL BARROW		Signature [Signature]		Month Day Year 10/20/90	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name MITCHELL A. TOM		Signature [Signature]		Month Day Year 10/20/90	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Gula B. Ruffin					
Signature [Signature]		Month Day Year 10/20/90			

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.

110 James Drive West, Suite 120

St. Rose, LA 70087

504.465-3310

JAN 22 1990

9000322

For MSP Use Only

Approval Code

A. General Information

Company Name NAVAL AVIONICS CENTER

Address 4000 E. 21ST ST

City INDIANAPOLIS State IN Zip Code 46219

Generator Contact JOE BRAY

Title QA

Telephone No. (317) 351-4925

Facility EPA ID. No. IN4120623499

B. Customer Information

Company Name ETSS OF OHIO INC

Contact BILL BARROW

Address P.O. BOX 31

TIPP CITY OH 45371

Telephone No. (513) 845 3912

For Customer Use

C. Regulatory Information

☒ RCRA Regulated

☒ Land Ban

☐ Non-Regulated

EPA Waste Code(s) U219

D. Chemical Composition

NO TRADE NAMES - Samples must not exceed 20% Total in maximum column must be greater than or equal to 100%

	MIN	MAX
<u>THOUREA</u>	<u>80</u>	<u>100</u>
<u>FINE DRY, UNPER, FINE SWEEPING</u>	<u>20</u>	<u>20</u>

Common name of waste: THOUREA

E. General Characteristics

Color WHITE

Odor: ☐ None ☒ Mild ☐ Strong

☐ Liquid ☐ Sludge ☒ Solid ☐ Powder

Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y	☒ D	Polymerizable?	Y	☒ D
Infectious?	Y	☒ N	Pyrophoric?	Y	☒ N
Water Reactive?	Y	☒ N	Explosive?	Y	☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
<u>2</u>	☐ <1 ☐ 5-10	☐ <0.8 ☐ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 ☒ 6-10
BTU's per lb	☒ 1-5 if > 10	☐ 0.8-1.0 ☐ 1.4-1.7	list actual in centipoise	☐ 5-20	☐ 10-12.5
(list actual value)	list actual <u>3</u>	☒ 1.0-1.2 ☐ >1.7	cp	if > 20	if < 2 or > 12.5
<u>5300</u>		list actual <u>1.2</u>		list actual	list actual <u>9.8</u>

Flash Point (closed cup)

☐ < 100°F ☒ > 200°F
☐ 100°-140°F ☐ _____ °F
☐ 140°-200°F actual

Sulfur (Wt %)

☐ < 5
if > 5 list actual value 20-30

Halogens (Wt %) < 1

☐ Iodine ☐ 1-5 ☐ 5-10 if > 10 list actual Wt %
☐ Bromine ☐ ☐ ☐
☐ Chlorine ☐ ☐ ☐
☐ Fluorine < 0.1 actual Wt %

Metallic EP Toxicity Test (MQL)

Arsenic (As) 0
Barium (Ba) 0
Cadmium (Cd) 0
Chromium (Cr) 0
Lead (Pb) 0
Mercury (Hg) 0

Selenium (Se) 0
Silver (Ag) 0
Copper (Cu) 0
Nickel (Ni) 0
Zinc (Zn) 0

Organics (ppm)

Endrin 0
Lindane 0
Methoxychlor 0
Toxaphene 0
2,4-D 0
2,4,5-TP (Silvex) 0
If material contains the following compounds, indicate actual ppm:
PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST 010288

Print or type. (Form designed for use on site (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		Generator US EPA ID No. AZ12151101211133033	Manifest Document No. 0121670	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address LUKE AIR FORCE BASE 832 CSG-DEEE LUKE A.F.B., ARIZONA 85309		6. US EPA ID Number AZ12151101211133033		A. State Manifest Document Number N/A	
4. Generator's Phone (602) 856-7237		7. US EPA ID Number AZ12151101211133033		B. State Generator's ID No. N/A	
5. Transporter 1 Company Name HAZCHEM ENVIRONMENTAL SERVICES		8. US EPA ID Number LA12151101211133033		C. State Transporter's ID No. N/A	
7. Transporter 2 Company Name		9. US EPA ID Number		D. Transporter's Phone (602) 741-0100	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA12151101211133033		E. State Transporter's ID No.	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. WASTE HAZARDOUS SUBSTANCE LIQUID, N.O.S. ORM-E, NA-9188		12. Containers No. Type 2134 DM		13. Total Quantity 0118710	
				14. Unit G	
				15. Waste No. F002 F005	
J. Additional Descriptions for Materials Listed Above HAZ/LAF 9000454		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information WEAR APPROPRIATE PROTECTIVE CLOTHING, GLOVES, EYE WEAR, RESPIRATORY PROTECTION, ETC. LAND RESTRICTION AND APPROPRIATE TREATMENT STANDARDS ATTACHED. IF UNABLE TO DELIVER, RETURN TO GENERATOR					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name ZANE M. HOIT		Signature Zane M. Hoit		Month Day Year 10/21/79	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name R. D. TRUMAN		Signature R. D. Truman		Month Day Year 10/21/79	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name T. A. BASSON					
Signature T. A. Basson		Signature T. A. Basson		Month Day Year 10/21/79	

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Vol. 19, Exh. 264, Me. 1/5
MANIFESTS
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P. Hearing

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JAN 29 1990

MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.

For MSP Use Only

Approval Code _____

9000454

A. General Information

Company Name Luke Air Force Base
Address 832 CSG - DEEE
City Luke AFB State AZ Zip Code 85309
Generator Contact ZANE HOIT
Title FACILITIES ENGINEER
Telephone No. (local) 856-7237
Facility EPA ID. No. AZD570024.133

B. Customer Information

Company Name Hazchem Env. Services
Contact Tammie MATANIC
Address 3855 South Evans Suite
405 TUCSON, AZ 85714
Telephone No. (local) 741-0100
For Customer Use HES-529

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) F002, F005

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20% Total in maximum column must be greater than or equal to 100%)

	MIN	MAX
<u>Oil & Grease</u>	<u>40%</u>	<u>50%</u>
<u>Waste Water</u>	<u>30%</u>	<u>35%</u>
<u>Trace Organics: MEK, Methylene Chloride,</u>	<u>10%</u>	<u>15%</u>
<u>Benzene, Acetonitrile, Chloroform</u>		
<u>Trichloroethylene</u>		
<u>Total</u>	<u>100%</u>	

E. General Characteristics

Color Opaque - Brownish Black
Odor: ☐ None ☒ Mild ☐ Strong
☐ Liquid ☒ Sludge ☐ Solid ☐ Powder
Phases: ☐ Single Layer ☒ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %) 50-60% Water (Wt %) ☐ <1 ☐ 5-10 ☐ <0.8 ☐ 1.2-1.4
BTU's per lb (list actual value) 1,000-2,000 ☐ 1-5 ☐ if > 10 ☐ 0.8-1.0 ☐ 1.4-1.7
list actual 35% list actual 1.5
Specific Gravity ☐ 1.0-1.2 ☐ > 1.2
Viscosity (for bulk liquids only) — cp
Total Suspended Solids (Wt % for bulk liquids only) 40-50% pH ☐ 2-6 ☐ 6-10
if > 20 ☐ 10-12.5
list actual 40-50% list actual neutral

Flash Point (closed cup)

☐ < 100°F ☒ > 200°F
☐ 100°-140°F ☐ actual °F
☐ 140°-200°F

Sulfur (Wt %)

☐ < 5
if > 5 list actual value —

Halogens (Wt %) < 1

1-5 5-10
☐ Iodine ☐ ☐
☐ Bromine ☐ ☐
☐ Chlorine ☐ ☐
☐ Fluorine ☐ actual Wt %

if > 10 list actual Wt %

NS = none
suspected

Metals EP Toxicity Test (MG/L)

Arsenic (As) NS
Barium (Ba) NS
Cadmium (Cd) NS
Chromium (Cr) NS
Lead (Pb) NS
Mercury (Hg) NS

Selenium (Se) NS
Silver (Ag) NS
Copper (Cu) NS
Nickel (Ni) NS
Zinc (Zn) NS

NS = none, suspected

Organics (ppm)

Endrin NS
Lindane NS
Methoxychlor NS
Toxaphene NS
2,4-D NS
2,4,5-T (Silvex) NS

If material contains the following compounds, indicate actual ppm:

PCB NS
Cyanides NS
Sulfides NS
Dioxin NS

NS = none, suspected

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 832D COMBAT SUPPORT GROUP (TAC)
LUKE AIR FORCE BASE AZ 85109-5000

FEB 19 1990

REPLY TO: DEEE (Mr Hoit, 7634)
ATTN OF:

14 February 1990

SUBJECT: Hazchem Environmental Services, Inc. Hazardous Waste Shipment

✓ TO: Estelle Quijano
Marine Shale Processors
110 James Drive West
Suite 120
Saint Rose, LA 70087

The shipment of 34 drums of hazardous waste sludge shipped to you by Hazchem was stored at our DRMO annex during an Air Force imposed delay in contractual proceedings. While this annex is part of Luke AFB, it has a separate EPA Facility I.D. number which is AZ4572190029. Please make the necessary changes to your records.

Zane M. Hoit
ZANE M. HOIT, GS-11
Civil Engineer

9000454

Readiness is our Profession

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STATE OF LOUISIANA
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 HAZARDOUS WASTE DIVISION
 BOX 44307 NEW ORLEANS, LOUISIANA 70804
 BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST NO. 912655

Form Approved OMB No. 2050-0039 Expires 9-30-81

Please print or type. (Form designed for use on 8 1/2 x 11 inch typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CLOD0918121519111218111010111812		Manifest Document No. 2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Veterans Administration 4725 Grant Street Denver, CO 80216		4. Generator's Phone (303) 980-2615		5. Transporter 1 Company Name Denver & Rio Grande Railroad		6. US EPA ID Number CLOD0006915359	
7. Transporter 2 Company Name		8. US EPA ID Number		9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA09181057706	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. Waste, Paint Related Materials, Flammable Liquid, NA1263, RQ NOSK		12. Containers No. Type 080 6 D M		13. Total Quantity 3 0 0 0		14. Unit Wt/Vol P	
b.							
c.							
d.							
15. Additional Descriptions for Materials Listed Above Approval Code: ETS VETA 9000		RECYCLE/REUSE		16. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information							
IF UNABLE TO DELIVER, RETURN TO GENERATOR							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
17. Printed/Typed Name Willie Ross		Signature <i>Willie Ross</i>		Date 10 12 11 13 19 11		Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Jeff Wolff		Signature <i>Jeff Wolff</i>		Date 10 24 15 91		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name GINA BASSE							
Signature <i>Gina Basse</i>		Signature <i>Theresa Basse</i>		Date 10 12 21 91		Month Day Year	

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 Manifests

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8888



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.

110 James Drive West, Suite 120

St. Rose, LA 70087

504-465-3310

900071

FEB 12 1990

For MSP Use Only

Approval Code

A. Generator Information

Generator Name Veterans Administration

Site Address 4725 Grant Street

City Denver State CO Zip Code 80216

Generator Contact Willie Ross

Title Realty Specialist

Telephone No. (303) 980-2615

Facility EPA I.D. No. COD982591281

B. Customer Information

Company Name E.T. Technologies, Inc.

Contact Clellan Pearce

Address 15200 E. Girard Avenue, Suite 4100

Aurora, CO 80014

Telephone No. (303) 680-9414

For Customer Use PM-39-2-0257460

C. Regulatory Information

☒ RCRA Regulated

☐ Land Ban

☐ Non-Regulated

EPA Waste Code(s) D001

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

MIN

MAX

Spent Paint Thinners

100%

Common Name of Waste:

E. General Characteristics

Color Brownish

Odor: ☐ None ☒ Mild ☐ Strong

☒ Liquid ☐ Sludge ☐ Solid ☐ Powder

Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? Y ☒ Polymerizable? Y ☒ N

Infectious? Y ☒ Pyrophoric? Y ☒ N

Water Reactive? Y ☒ Explosive? Y ☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %)

Water (Wt %)

Specific Gravity

Viscosity

Total

Suspended Solids

pH

0

☐ < 1 ☒ 5-10

☐ < 0.8 ☐ 1.1-2.1

(for bulk liquids only)

(Wt % for bulk liquids only)

☐ 2-6 ☒ 6-10

BTU's per lb

☐ 1-5 ☒ if > 10

☐ 0.8-1.0 ☐ 1.1-1.7

list actual in centipoise

☒ 5-20

☐ 10-12.5

(list actual value)

list actual

☒ 1.0-1.2 ☐ > 1.7

list actual

if > 20

list actual

20,000

list actual

list actual

cp

list actual

list actual

Flash Point (closed cup)

Sulfur (Wt %)

Halogens (Wt %)

< 1 1-5 5-10

if > 10 list actual Wt %

☒ < 100°F ☐ > 200°F

☐ < 5 ☒ if > 5 list actual value N/A

☐ Iodine ☐ ☐ ☐

☐ 1 ☐ ☐ ☐

☐ 100°-140°F ☐ ☐ °F

☐ 1 ☐ ☐ ☐

☒ Bromine ☐ ☐ ☐

☒ Chlorine ☐ ☐ ☐

☐ 140°-200°F ☐ actual

☐ 1 ☐ ☐ ☐

☐ Fluorine ☐ actual Wt %

☐ 1 ☐ ☐ ☐

Metals: EP Toxicity Test (MG/L)

Selenium (Se)

Organics (ppm)

Arsenic (As)

Silver (Ag)

Ethrin

Barium (Ba)

Copper (Cu)

Endrin

Cadmium (Cd)

Nickel (Ni)

Heptachlor

Chromium (Cr)

Zinc (Zn)

Toxaphene

Lead (Pb)

2,4-D

Mercury (Hg)

2,4,5-T (Silvex)

BDL=Below Detectable Limits

N/S=None Suspected

if material contains the following

compounds, indicate actual ppm:

PCB N/S

Cyanides

Sulfides

Dioxin

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FEB 7 '90 16:33 FROM CEREE LABS

PAGE.003

CHEMIST SHEET

COMPANY: ET Technologies

EF PROJECT NUMBER: PR900109

METHOD	SAMP	SAMPLE IDENTIFICATION	ANALYTE	AMD	SDL	RESULT
method 1010	0621	VA-01-A @9:50	Flash Point	deg.F		76
Corr 9040	0621	VA-01-A @9:50	Corrosivity pH	0. pH		6.46
EXTRACT-EPTOX	0621	VA-01-A @9:50	eptox-extraction	0 Ona		
As 7000 6010	0621	VA-01-A @9:50	Arsenic	0.20 mg/l 0.003 mg/kg		BDL
Ba 6010	0621	VA-01-A @9:50	Barium	0.001 mg/kg		0.22
Cd 6010	0621	VA-01-A @9:50	Cadmium	0.003 mg/kg		BDL
Cr 6010	0621	VA-01-A @9:50	Chromium	0.006 mg/kg		BDL
Pb 6010	0621	VA-01-A @9:50	Lead	0.08 mg/kg		0.38
Hg 7470	0621	VA-01-A @9:50	Mercury	0.0005 mg/kg		BDL
Se 6010	0621	VA-01-A @9:50	Selenium	0.09 mg/kg		BDL
6010	0621	VA-01-A @9:50	Silver	0.007 mg/kg		BDL
A. D240	0621	VA-01-A @9:50	BTU	250 BTU/lb.		29.50
method 1010	0622	VA-02-A @10:00	Flash Point	deg.F		7200
Corr 9040	0622	VA-02-A @10:00	Corrosivity pH	0. pH		6.28
EXTRACT-EPTOX	0622	VA-02-A @10:00	eptox-extraction	0 Ona		
As 7000 6010	0622	VA-02-A @10:00	Arsenic	0.20 mg/l 0.003 mg/kg		BDL
Ba 6010	0622	VA-02-A @10:00	Barium	0.001 mg/kg		0.29
Cd 6010	0622	VA-02-A @10:00	Cadmium	0.003 mg/kg		BDL
Cr 6010	0622	VA-02-A @10:00	Chromium	0.006 mg/kg		BDL

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FEB. 7 '90 16:33 FROM CENREF LABS

PAGE.004

CENREF PROJECT NUMBER:	PR900109				
METHOD	SAMP	SAMPLE IDENTIFICATION	ANALYTE	AMD L	SDL RESULT
Pb 6010	0622	VA-02-A @10:00	Lead	0.08 ^{mg/kg}	BDL
Hg .70	0622	VA-02-A @10:00	Mercury	0.0005 ^{mg/kg}	BDL
Se 6010	0622	VA-02-A @10:00	Selenium	0.09 ^{mg/kg}	BDL
Ag 6010	0622	VA-02-A @10:00	Silver	0.007 ^{mg/kg}	BDL
ASTM D240	0622	VA-02-A @10:00	BTU	250 BTU/lb	19,300

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SDL = SAMPLE DETECTION LIMIT (If different from AMDL)
AMD L = APPROXIMATE METHOD DETECTION LIMIT
BDL = BELOW DETECTION LIMIT (Below SDL)

Comments:

VA REGIONAL OFFICE
RECEIVED
FEB 9 1990

FEB 9 8 56 AM '90

PROPERTY MARK
SECTION

0928

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 4707
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST No 018383

Please print or type. (Form designed for use on office (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law
3. Generator's Name and Mailing Address Veteran's Administration Medical Center 2550 Memorial Blvd San Francisco, CA 94162		4. Generator's Phone (415) 500-2030		A. State Manifest Document Number	
5. Transporter 1 Company Name Morgan City Shale Processors, Inc.		6. US EPA ID Number	B. State Generator's ID TAX EXEMPT		
7. Transporter 2 Company Name		8. US EPA ID Number	C. State Transporter's ID 104324		
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number	D. Transporter's Phone (415) 500-2030		
			E. State Transporter's ID		
			F. Transporter's Phone		
			G. State Facility's ID		
			H. Facility's Phone (504) 631-3161		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Non-Hazardous Waste Liquid Drum 1		1 51	40	P	Non-RR2A
b. Waste: Flammable Solid, Corrosive, (D01) Drum 2		1 51	40	P	D001 R
c. Waste: Flammable Liquid, Corrosive, (D01) Drum 3		1 51	5	P	D001 R
d. Waste: Flammable Solid, Corrosive, (D01) Drum 4		1 51	5	P	D002 R
J. Additional Descriptions for Materials Listed Above NOTE/VAD/0004328/LP. A,B: 30gal lab packs. C,D: 5gal lab packs. See attached lists for contents.		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information IF UNABLE TO DELIVER, RETURN TO GENERATOR					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Adam G. Figueroa		Signature Adam G. Figueroa		Month Day Year 10/9/13/1910	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name John M. Erickson		Signature John M. Erickson		Month Day Year 10/9/13/1910	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Dan (RAMOR)					
Signature Dan (RAMOR)		Month Day Year 10/9/13/1910			

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MANIFESTS

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO 018384

Please print or type. (Form designed for use on office (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0030. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Veteran's Administration Medical Center 4150 Clement Street San Francisco, CA 94121		4. Generator's Phone (415) 221-4616	5. State Manifest Document Number	6. State Generator's ID	7. State Generator's Phone
5. Transporter 1 Company Name North State Environmental		6. US EPA ID Number	7. State Transporter's ID	8. State Transporter's Phone	9. State Facility's ID
7. Transporter 2 Company Name		8. US EPA ID Number	9. State Transporter's ID	10. State Transporter's Phone	11. State Facility's ID
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number	11. State Facility's ID	12. State Facility's Phone	13. State Facility's Address
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Waste Sulfuric Acid, Corrosive Material, UN1830 Drum 5		1	10	P	D002-R
b. Waste Phenol, Solid, Poison B UN1651 Drum 5		1	40	P	U188-R U007
c. Waste Flammable Liquid, NDS, UN1992 Drum 7 (U154/U044)		1	10	P	D001-R U154, U044
d. Waste Sodium, Metal, Flammable Solid Drum 8 UN1423		1	10	P	D001 D003
14. Additional Descriptions for Materials Listed Above WASTE/VD4/9004328/LP. A, C, D: 5gal lab packs; B: 30gal lab pack. See attached lists for contents.		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Emergency contact: Ron Figueroa (415) 221-4616 Use gloves, goggles and respirator if drums are opened.					
IF UNABLE TO DELIVER, RETURN TO GENERATOR					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Adam G. Figueroa		Signature Adam G. Figueroa		Month Day Year 09/14/90	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name JOHN M. BRICKMAN		Signature John M. Brickman		Month Day Year 10/11/90	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Dan Cannon					
Signature Dan Cannon		Month Day Year 09/14/90			

EPA Form 1700-22 (Rev. 9/88)

WHITE - DEQ, GR

- Generator, YELLOW - TSDRF, BLUE - Transporter 2, P

Transporter 1, GOLD - Generator

DEQ FORM HW-3 (R 9/88)

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST No. 018386

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's Name and Mailing Address: Veterans Administration Medical Center, 4154 Clement Street, San Francisco, CA 94121, (415) 221-4910

Transporter 1: North State Environmental, US EPA ID Number: LA09081057706

Designated Facility Name and Site Address: MARINE SHALE PROCESSORS, INC., HIGHWAY 90 EAST, MORGAN CITY, LOUISIANA 70380

US DOT Description: Waste Corrosive Liquid, NOS, Corrosive Material, Drum 14 (D002/D367) UN1756

Non-RCRA Hazardous Waste Solid, Drums 15, 16

Additional Descriptions: RECYCLE / REUSE, WASTE / WADN/9004328/LP-7A: 45 gal lab pack, B: 30 gal lab packs. See attached lists for contents.

Special Handling Instructions: Use gloves, goggles and respirator if drums are opened

Generator's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Transporter 1 Acknowledgement: John M. Erickson, 10/9/91

Facility Owner/Operator Certification: Dan Oran, 10/9/91

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 4430
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST No 018385

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's Name and Mailing Address
Veteran's Administration Medical Center
155 Clement Street
San Francisco, CA 94121
Generator's Phone (415) 221-4910

2. Generator's US EPA ID Number
LA 836201032

3. State of Origin
LA

4. Manifest Document No.
018385

5. Page 1 of 1

6. Information in the shaded areas is not required by Federal law

7. State Manifest Document Number
LA 836201032

8. State Generator's ID
LA 836201032

9. State Transporter's ID
LA 836201032

10. State Facility's ID
LA 836201032

11. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380

12. Facility's US EPA ID Number
LA 836201032

13. Facility's Phone
(504) 631-3161

14. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

Waste Description	Containers	Total Quantity	Unit	Waste No.
Waste Ethyl Ether, Flammable Liquid UN1155 Drum 9	1	10	P	D001, D002, U117
Waste Sodium Cyanide, Solid, Poison D UN1589 Drum 18	1	10	P	P105
Waste Perochloric Acid, Oxidizer, UN1572 Drums 11, 12	2	20	P	D001, D003, D002
Waste Acetic Acid, Glacial, Corrosive Material Drum 13 UN2799	1	25	P	D001, D002, B

15. Additional Descriptions for Materials Listed Above
WASTE/VADM/4004328/LP A, B, C, 15gal lab packs, D: 14gal lab pack. See attached lists for contents.

16. Handling Codes for Wastes Listed Above

17. Special Handling Instructions and Additional Comments
Use gloves, goggles and respirator. Containers are opened.

18. IF UNABLE TO DELIVER, RETURN TO GENERATOR

19. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

20. Printed/Typed Name
Adam G. Figueroa

21. Signature
Adam G. Figueroa

22. Month Day Year
09/11/91

23. Transporter 1 Acknowledgement of Receipt of Materials

24. Printed/Typed Name
JOHN L. Erickson

25. Signature
JOHN L. Erickson

26. Month Day Year
10/11/91

27. Transporter 2 Acknowledgement of Receipt of Materials

28. Printed/Typed Name

29. Signature

30. Month Day Year

31. Discrepancy Indication Space

32. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

33. Printed/Typed Name
Dan P. Amos

34. Signature
Dan P. Amos

35. Month Day Year
09/11/91

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

AUG 24 1990

9004328

For MSP Use Only

Approval Code _____

A. Generator Information

Generator Name VETERANS ADMINISTRATION MEDICAL CENTER
Site Address 4150 CLEMENT ST.
City SAN FRANCISCO, CA Zip Code 94121
Generator Contact ADAN FIGUEROA
Title INDUSTRIAL HYGIENIST
Telephone No. (415) 221-4810 x 3658
Facility EPA ID No. _____

B. Customer Information

Company Name NORTH STATE ENVIRONMENTAL
Contact LINDA MCCORMICK
Address 9030 SPRUCE AVE., STE. W
PO. SAN FRANCISCO, CA 94080
Telephone No. (415) 588-9694
For Customer Use _____

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) SEE ATTACHED SHEETS

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>LAB PACKS - SEE ATTACHED SHEETS</u>		

Common Name of Waste: LAB PACKS

E. General Characteristics

Color: SEE ATTACHED SHEETS
Odor: ☐ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☐ Solid ☐ Powder
Phases ☐ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

SEE ATTACHED SHEETS
Ash (list actual Wt %): Water (Wt %): Specific Gravity:
☐ < 1 ☐ 5-10 ☐ < 0.8 ☐ 1.2-1.4
BTU's per lb: 1-5 if > 10 ☐ 0.8-1.0 ☐ 1.4-1.7
(list actual value) list actual list actual
Viscosity (for bulk liquids only) cp
Total Suspended Solids (Wt % for bulk liquids only) list actual
☐ 5-20 ☐ 10-12.5 ☐ < 2 or > 12.5
pH list actual
☐ 2-6 ☐ 6-10

Flash Point (closed cup) actual
☐ < 100°F ☐ > 200°F
☐ 100°-140°F ☐ _____°F
☐ 140°-200°F actual
Sulfur (Wt %) list actual value
☐ < 5
Halogens (Wt %) actual Wt %
☐ < 1 ☐ 1-5 ☐ 5-10 ☐ > 10
☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine

Metals: EP Toxicity Test (Mg/L)

Arsenic (As) _____
Barium (Ba) _____
Cadmium (Cd) _____
Chromium (Cr) _____
Lead (Pb) _____
Mercury (Hg) _____

Selenium (Se) _____
Silver (Ag) _____
Copper (Cu) _____
Nickel (Ni) _____
Zinc (Zn) _____

Organics (ppm)

Endrin _____
Lindane _____
Methoxychlor _____
Toxaphene _____
2,4-D _____
2,4,5-TP (Silvex) _____

If material contains the following compounds, indicate actual ppm:

PCB _____
Cyanides _____
Sulfides _____
Dioxin _____

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 1

PAGE 1 OF 16

DOT DESCRIPTION: Non-RCRA Hazardous Waste Liquid UN/ NA NO: N/A

CONTAINER SIZE: 30gal
(30 Gal. or less)

CONTAINER TYPE: fiber
(Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	(Dextran T40) non-ionic synthetic polymer of sucrose	500	g	NRM		NRM
02	(Hypaque sodium 50%) diatrizoate sodium	7	50mls	NRM		NRM
03	2,5-diphenyloxazole	50	g	NRM		NRM
04	chloramine T	175	g	NRM		NRM
05	(Ficoll) non-ionic synthetic polymer of sucrose	5	g	NRM		NRM
06	lidocaine hydrochloride	5	50mls	NRM		NRM
07	(dimethyl POPOP) dimethyl-1,4-bis(5-phenyloxazol-2-yl) benzene	5	g	NRM		NRM
08	beta-estradiol	2.5	g	NRM		NRM
09	agarose	10	g	NRM		NRM
10	agarose	5	g	NRM		NRM
11	(EGTA) ethylene glycol-bis(beta-aminoethyl ether) tetraacetic acid	25	g	NRM		NRM
12	(Ficoll 400) non-ionic synthetic polymer of sucrose	500	g	NRM		NRM
13	sodium acetate, residue in 500g bottle			NRM		NRM
14	noble agar	1/4	lb	NRM		NRM
15	(DE52) diethylaminoethyl cellulose	20	g	NRM		NRM
16	Ecelite Analytical Filter Aid	3	100g	NRM		NRM

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 8/23/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 1 PAGE 1B OF 16

DOT DESCRIPTION: Non-RCRA Hazardous Waste Liquid UN/ NA NO: N/A

CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	azathioprine	10	g	NRM		NRM
02	alpha-methyl-d-mannoside	10	g	NRM		NRM
03	(panmycin) tetracycline	60	250mg	NRM		NRM
04	(Kodak Pyronin Y) 3,6-bis(dimethylamino) xanthylium chloride	500	g	NRM		NRM
05	Kodak glycine	500	g	NRM		NRM
06	ethylene diamine tetraacetic acid	500	g	NRM		NRM
07	agar	500	ml	NRM		NRM
08	methyl green	10	g	NRM		NRM
	crystal violet	3	g	NRM		NRM
10	methylene blue	2	25g	NRM		NRM
11	adenosine	5	g	NRM		NRM
12	imidazole	5	g	NRM		NRM
13	hydrocortisone	25	g	NRM		NRM
14	L-amino acids	21	1g	NRM		NRM
15	N,N-dimethyl formamide	2	100mls	NRM		NRM
16	Sigma brand ethylenediamine tetraacetic acid	500	g	NRM		NRM

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1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

LAB PACK CONTAINER NO: 1 PAGE 1C OF 16

DOT DESCRIPTION: Non-RCRA Hazardous Waste Liquid UN/NA NO: N/A

CONTAINER SIZE: 30GAL CONTAINER TYPE: FIBER
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>N,N-methylene bisacrylamide</u>	<u>10</u>	<u>g</u>	<u>NRM</u>		<u>NRM</u>
02	<u>dithiothreitol</u>	<u>1</u>	<u>g</u>	<u>NRM</u>		<u>NRM</u>
03	<u>dexamethasone</u>	<u>1</u>	<u>mg</u>	<u>NRM</u>		<u>NRM</u>
04	<u>pH 7 buffer sol'n</u>	<u>2</u>	<u>lg</u>	<u>NRM</u>		<u>NRM</u>
05	<u>acridine orange deactivated in chlorox</u>	<u>1</u>	<u>gal</u>	<u>NRM</u>		<u>NRM</u>
06	<u>phenyl isothiocyanate</u>	<u>1</u>	<u>ml</u>	<u>NRM</u>		<u>NRM</u>
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1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 2 PAGE 2 OF 16

DOT DESCRIPTION: Waste Flammable Solid, Corrosive NOS UN/ NA NO: UN2925
(D001/D002), Flammable Solid

CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	J.T.Baker Resisorb Mercury Vapor Absorbent Kit (contains 45-95% activated carbon, 5-55% iodine)	1	kit	flam.solid	NA1361	D001
02	J.T.Baker Solusorb Solvent Spill Kit (contains 50-70% activated carbon, 30-50% graphite)	1	kit	flam.solid	NA1361	D001
03	J.T. Baker Neutrasorb Acid Spill Kit (30-70% magnesium oxide, 30-70% sodium carbonate, 5-25% calcium carbonate, <0.1% bromocresol purple)	1	kit	NRM		NRM
04	J.T. Baker Neutrakit Caustic Neutralizer Kit (55-75% citric acid, 10-35% silica gel, 5-20% flour, 1-10% bromothymol blue, sodium salt)	1	kit	NRM		NRM
05	J.T. Baker Cinnasorb Elemental Mercury Spill Kit (base contains 90-100% zinc, activator contains 90-100% sulfamic acid)	1	kit	corr.mat	UN1759	D002
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 3 PAGE 3 OF 16

DOT DESCRIPTION: Waste Flammable Liquid, Corrosive NOS UN/ NA NO: UN2924
(D001/D002), Flammable Liquid

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	<u>thionyl chloride</u>	<u>2</u>	<u>500mls</u>	<u>corr.mat</u>	<u>UN1836</u>	<u>D002</u>
02	<u>dichlorodimethyl silane</u>	<u>100</u>	<u>mls</u>	<u>flam.liq</u>	<u>UN2924</u>	<u>D001/D002</u>
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

LAB PACK CONTAINER NO: 4 PAGE 4 OF 16

DOT DESCRIPTION: Waste Phosphoric Acid, UN/
Corrosive Material NA NO: UN1805

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	phosphoric acid	1	gal	corr.mat	UN1805	D002
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 5 PAGE 5 OF 16

DOT DESCRIPTION: Waste Sulfuric Acid, UN/
Corrosive Material NA NO: UN1830

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>sulfuric acid</u>	<u>1</u>	<u>gal</u>	<u>corr.mat</u>	<u>UN1830</u>	<u>D002</u>
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

'B PACK CONTAINER NO: 6 PAGE 6 OF 16

DOT DESCRIPTION: Waste Phenol, Solid, UN/
Poison B NA NO: UN1671

CONTAINER SIZE: 30GAL CONTAINER TYPE: FIBER
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>phenol, solid</u>	<u>1</u>	<u>lb</u>	<u>poison B</u>	<u>UN1671</u>	<u>U188</u>
02	<u>methylene blue</u>	<u>450</u>	<u>mls</u>	<u>NRM</u>		<u>NRM</u>
03	<u>N,N-methylene bisacrylamide</u>	<u>10</u>	<u>g</u>	<u>NRM</u>		<u>NRM</u>
04	<u>(magnesium color reagent)</u>	<u>4-(p-nitrophenyl-azo)-</u>				
	<u>1-naphthol</u>	<u>10</u>	<u>mg</u>	<u>NRM</u>		<u>NRM</u>
05	<u>(protein standard)</u>					
	<u>bovine serum albumin</u>	<u>50</u>	<u>mg</u>	<u>NRM</u>		<u>NRM</u>
06	<u>acrylamide</u>	<u>100</u>	<u>g</u>	<u>NRM</u>		<u>U007</u>
07	<u>dichloroacetic acid, sodium salt</u>	<u>500</u>	<u>g</u>	<u>NRM</u>		<u>NRM</u>
08	<u>(cyanuric chloride)</u>	<u>2,4,6-trihydroxy-</u>				
	<u>1,3,5-triazine</u>	<u>1</u>	<u>kg</u>	<u>NRM</u>		<u>NRM</u>
	<u>phenol, solid</u>	<u>100</u>	<u>g</u>	<u>poison B</u>	<u>UN1671</u>	<u>U188</u>
10	<u>acrylamide</u>	<u>2</u>	<u>0.1g</u>	<u>NRM</u>		<u>U007</u>
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 8/23/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 7 PAGE 7 OF 16

DOT DESCRIPTION: Waste Flammable Liquid NOS UN/ NA NO: UN1993
(U154/U044), Flammable Liquid

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>hexane/methanol/chloroform</u>	<u>100</u>	<u>mls</u>	<u>flam.liq</u>	<u>UN1993</u>	<u>U154/D025/</u> <u>U044/D001</u>
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 8/23/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 8 PAGE 8 OF 16

DOT DESCRIPTION: Waste Sodium, Metal, UN/
Flammable Solid NA NO: UN1428

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	sodium, metal lump					
02	in mineral oil	1/4	1b	flam.solid	UN1428	D001/D003
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90
GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

☐ B PACK CONTAINER NO: 9 PAGE 9 OF 16
DOT DESCRIPTION: Waste Ethyl Ether, UN/
Flammable Liquid NA NO: UN1155
CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	diethyl ether	2	150mls	flam.liq	UN1155	U117
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

LAB PACK CONTAINER NO: 10 PAGE 10 OF 16

DOT DESCRIPTION: Waste Sodium Cyanide, Solid, UN/ NA NO: UN1689
Poison B

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	<u>sodium cyanide</u>	<u>2</u>	<u>11b</u>	<u>poison B</u>	<u>UN1689</u>	<u>P106</u>
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1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 11 PAGE 11 OF 16

DOT DESCRIPTION: Waste Perchloric Acid, Oxidizer UN/NA NO: UN1873

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>perchloric acid</u>	<u>250</u>	<u>mls</u>	<u>oxidizer</u>	<u>UN1873</u>	<u>D001/D002</u>
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1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 12 PAGE 12 OF 16

DOT DESCRIPTION: Waste Perchloric Acid, Oxidizer UN/NA NO: UN1873

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>perchloric acid</u>	<u>250</u>	<u>mls</u>	<u>oxidizer</u>	<u>UN1873</u>	<u>D001/D002</u>
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1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 13 PAGE 13 OF 16

DOT DESCRIPTION: Waste Acetic Acid, Glacial, UN/
Corrosive Material NA NO: UN2789

CONTAINER SIZE: 14gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	acetic acid, glacial	2	1gal	corr.mat	UN2789	D002
02	20% trichloroacetic acid	250	mls	corr.mat	UN2564	D002
03	1% crystal violet in					
04	5% acetic acid	5	ml	corr.mat	UN2790	D002
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1. Linda B. McCormick 2. 8/23/90
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

'B PACK CONTAINER NO: 14 PAGE 14 OF 16

DOT DESCRIPTION: Waste Corrosive Liquid NOS UN/ NA NO: UN1760
(D002/D007), Corrosive Material

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>hydrochloric acid</u>	<u>2</u>	<u>mls</u>	<u>corr.mat</u>	<u>UN1789</u>	<u>D002</u>
02	<u>hydrochloric acid</u>	<u>1</u>	<u>L</u>	<u>corr.mat</u>	<u>UN1789</u>	<u>D002</u>
03	<u>chromic/sulfuric acid</u>	<u>10</u>	<u>25mls</u>	<u>corr.mat</u>	<u>UN1755</u>	<u>D002/D007</u>
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1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
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B PACK CONTAINER NO: 15 PAGE 15 OF 16

DOT DESCRIPTION: Non-RCRA Hazardous Waste Solid UN/ NA NO: N/A

CONTAINER SIZE: 30GAL CONTAINER TYPE: FIBER
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	lab trash (cups, wipes, pipettes, plastic lab ware)					
02	contaminated with ethidium bromide	2x2cu.ft		NRM		
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1. Linda B. McCormick 2. 8/23/90
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Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90
GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

AB PACK CONTAINER NO: 16 PAGE 16 OF 16

DOT DESCRIPTION: Non-RCRA Hazardous Waste Solid UN/NA NO: N/A

CONTAINER SIZE: 30GAL (30 Gal. or less) CONTAINER TYPE: FIBER (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	lab trash (cups, wipes, plastic lab ware, pipettes)					
02	contaminated with ethidium bromide	2x2cu.ft.		NRM		NRM
03						
04						
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1. Linda B. McCormick 2. 8/23/90
SIGNATURE DATE
3. Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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Matheson

V. A. Med Ctr (1)

Ref. # 9004228

DOCUMENT NUMBER:		7004328. 16. pack.	
DATE RECEIVED: 8.24.70.		DATE REVIEWED: 8.31.70.	
COMMENTS			
ITEM #	REF #	REF.	JM.
1c.	(02)	Williamthorpe in Clelands Rongest. Is a di-morpha. (Dox3)?	THIO = MERCAPTO = Sulfhydryl
	(06)	Dox3	Is reactive?
		Good question	
2.	01.	Confirm that this kit is unused and has no mercury. Dox1?	Probably not injured but she should have told us
	05.	Same as (01). Dox1?	
		If non-aqueous solid = Dox2.	
3.	01.	Add Dox3. Decomposes with water to form HCl and HCl	Refut
	07.	Not RRR crossive - Dox2.	
		Add Dox3. Reacts with water to form HCl.	Add Dox3
	* 06	* Not likely to reactively, but may polymerize violently on heating	I see only two items in LPH?
	10	Dox3 maybe?	
7.	01.	If these were mixed for disposal - USA 6044 Dox1. If mixed for use as a formulation and there is an identifiable solid active ingredient, and exhibits irregular characteristic = Dox1. (and chloroform = Dox2. * Dox5 = p-cresol. (2/21/70) * Dox5 = chloroform on proposal To list 61386.	I would gain a million since coming from a lab - so why DOX5?
9	01	Add (Dox1.)	I think so
10.	01	PKB is not on App. 12 or 13. It will need to be manifested on a separate line and have a land disposal restriction form of its own. Get Hcl to type it on the quote.	Yes on the NON Appendix TV or V Lab pack. Remind them to

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P. 3

704328 (cont'd)

CENTRE			RJP.	
DATE	TIME			
11	01	Add Dm3. Candelon on checker heating.		JM.
12	01	Add Dm3. : Same.		I would say Dm3 also
13	01	Add Dm3. : black pt = 110°F.		" "
14	03.	chromic acid is an oxidizer.		YES
		Can Dm3 apply to this mixture?		possibly - her choice

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

1 PACK CONTAINER NO: 1 PAGE 1C OF 16

DOT DESCRIPTION: Non-RCRA Hazardous Waste Liquid UN/ NA NO: N/A

CONTAINER SIZE: 30GAL CONTAINER TYPE: FIBER
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	N,N-methylene bisacrylamide	10	g	NRM		NRM
02	dithiothreitol	1	g	NRM		NRM
03	dexamethasone	1	mg	NRM		NRM
04	pH 7 buffer sol'n	2	lg	NRM		NRM
05	acridine orange deactivated in chlorox	1	gal	NRM		NRM
06	phenyl isothiocyanate	1	ml	NRM		NRM
07						
08						
	MSP Ref# 9004328					
10	(Leave as is, #1 and #6 not reactive)					
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1. Laura R. Traweck 2. 9/10/90
SIGNATURE DATE

Laura R. Traweck 4. Operations Chemist
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

LAB PACK CONTAINER NO: 2 PAGE 2 OF 16

DOT DESCRIPTION: Waste Flammable Solid, Corrosive NOS UN/ NA NO: UN2925
(D001/D002), Flammable Solid

CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	J.T.Baker Resisorb Mercury Vapor Absorbent Kit (contains 45-95% activated carbon, 5-55% iodine) (unused)	1	kit	flam.solid	NA1361	D001
02	J.T.Baker Solusorb Solvent Spill Kit (contains 50-70% activated carbon, 30-50% graphite) (unused)	1	kit	flam.solid	NA1361	D001
03	J.T. Baker Neutrasorb Acid Spill Kit (unused) (30-70% magnesium oxide, 30-70% sodium carbonate, 5-25% calcium carbonate, <0.1% bromocresol purple)	1	kit	NRM		NRM
04	J.T. Baker Neutracit Caustic Neutralizer Kit (unused) (55-75% citric acid, 10-35% silica gel, 5-20% flour, 1-10% bromothymol blue, sodium salt)	1	kit	NRM		NRM
05	J.T. Baker Cinnasorb Elemental Mercury Spill Kit (base contains 90-100% zinc, activator contains 90-100% sulfamic acid) (unused)	1	kit	corr.mat	UN1759	D002
06						

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1. Laura R. Traweck SIGNATURE 2. 9/10/90 DATE

3. Laura R. Traweck NAME (Type or Print) 4. Operations Chemist TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

LAB PACK CONTAINER NO: 3 PAGE 3 OF 16

DOT DESCRIPTION: Waste Flammable Liquid, Corrosive NOS UN/ NA NO: UN2924
(D001/D002), Flammable Liquid

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>thionyl chloride</u>	<u>2</u>	<u>500mls</u>	<u>corr.mat</u>	<u>UN1836</u>	<u>D002,D003</u>
02	<u>dichlorodimethyl silane</u>	<u>100</u>	<u>mls</u>	<u>flam.liq</u>	<u>UN2924</u>	<u>D001</u>
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1. Laura R. Traweck 2. 9/10/90
SIGNATURE DATE

Laura R. Traweck 4. Operations Chemist
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90
GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

AB PACK CONTAINER NO: 7 PAGE 7 OF 16

DOT DESCRIPTION: Waste Flammable Liquid NOS UN/
(U154/U044), Flammable Liquid NA NO: UN1993

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	hexane/methanol/chloroform	100	mls	flam.liq	UN1993	U154
02						U044/D001
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1. Laura R. Traweck 2. 9/10/90
SIGNATURE DATE

Laura R. Traweck 4. Operations Chemist
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90
GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

B PACK CONTAINER NO: 9 PAGE 9 OF 16
DOT DESCRIPTION: Waste Ethyl Ether, UN/
Flammable Liquid NA NO: UN1155
CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	diethyl ether	2	150mls	flam.liq	UN1155	U117/D001
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB-PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [Signature] 2. 9/10/90
SIGNATURE DATE
3. Laura R. Traweck 4. Operations Chemist
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

3 PACK CONTAINER NO: 10 PAGE 10 OF 16

DOT DESCRIPTION: Waste Sodium Cyanide, Solid, UN/
Poison B NA NO: UN1689

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>sodium cyanide</u>	<u>2</u>	<u>11b</u>	<u>poison B</u>	<u>UN1689</u>	<u>P106</u>
02						
03	(This drum will be manifested on a separate line and have					
04	a land disposal restriction form of its own.)					
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1. *Laura R. Traweck* 2. 9/10/90
SIGNATURE DATE

Laura R. Traweck 4. Operations Chemist
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

PACK CONTAINER NO: 11 PAGE 11 OF 16

DOT DESCRIPTION: Waste Perchloric Acid, Oxidizer UN/NA NO: UN1873

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>perchloric acid</u>	<u>250</u>	<u>mls</u>	<u>oxidizer</u>	<u>UN1873</u>	<u>D003/D001/D002</u>
02						
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1. *Laura R. Traweek* 2. 9/10/90
SIGNATURE DATE

3. Laura R. Traweek 4. Operations Chemist
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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

PACK CONTAINER NO: 12 PAGE 12 OF 16

DOT DESCRIPTION: Waste Perchloric Acid, Oxidizer UN/NA NO: UN1873

CONTAINER SIZE: 5gal (30 Gal. or less) CONTAINER TYPE: poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>perchloric acid</u>	<u>250</u>	<u>mls</u>	<u>oxidizer</u>	<u>UN1873</u>	<u>D003/D001/D002</u>
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1. Laura R. Traweck 2. 9/10/90
SIGNATURE DATE

Laura R. Traweck 4. Operations Chemist
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

PACK CONTAINER NO: 13 PAGE 13 OF 16

DESCRIPTION: Waste Acetic Acid, Glacial, UN/ NA NO: UN2789
Corrosive Material

CONTAINER SIZE: 14gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	<u>acetic acid, glacial</u>	<u>2</u>	<u>1gal</u>	<u>corr.mat</u>	<u>UN2789</u>	<u>D001/ D002</u>
02	<u>20% trichloroacetic acid</u>	<u>250</u>	<u>mls</u>	<u>corr.mat</u>	<u>UN2564</u>	<u>D002</u>
03	<u>1% crystal violet in</u>					
04	<u>5% acetic acid</u>	<u>5</u>	<u>ml</u>	<u>corr.mat</u>	<u>UN2790</u>	<u>D002</u>
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1. Laura R. Traweck 2. 9/10/90
SIGNATURE DATE

Laura R. Traweck 4. Operations Chemist
NAME (Type or Print) TITLE

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SEP 14 1990 DEPARTMENT OF VETERANS AFFAIRS
Medical Center
4150 Clement Street
San Francisco CA 94121

September 12, 1990

In Reply Refer To: 662/138

Mr. Greg Horne
Marine Shale Processors
110 James Dr., West
St. Rose, LA 70087

SUBJ: Profile No. 9004328 North State Environmental

Dear Mr. Horne,

1. This facility's EPA number was left out of subject profile.
2. Our US EPA Generator's ID Number is CA 8360010328.
3. Please call me at (415) 221-4810 x3658 if you have any questions.

Sincerely,

Adán G. Figueroa

ADÁN G. FIGUEROA
Industrial Hygienist

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90
GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121 **SEP 17 1990**

B PACK CONTAINER NO: 2 PAGE 2 OF 16
UN/
DESCRIPTION: Waste Flammable Solid, Corrosive NOS NA NO: UN2925
(D001/D002), Flammable Solid
CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	J.T.Baker Resisorb Mercury Vapor Absorbent Kit (contains 45-95% activated carbon, 5-55% iodine) (unused)	1	kit	flam.solid	NA1361	D001
02	J.T.Baker Solusorb Solvent Spill Kit (contains 50-70% activated carbon, 30-50% graphite) (unused)	1	kit	flam.solid	NA1361	D001
03	J.T. Baker Neutrasorb Acid Spill Kit (unused) (30-70% magnesium oxide, 30-70% sodium carbonate, 5-25% calcium carbonate, <0.1% bromocresol purple)	1	kit	NRM		NRM
04	J.T. Baker Neutrakit Caustic Neutralizer Kit (unused) (55-75% citric acid, 10-35% silica gel, 5-20% flour, 1-10% bromothymol blue, sodium salt)	1	kit	NRM		NRM
05	J.T. Baker Cinnasorb Elemental Mercury Spill Kit (base contains 90-100% zinc, activator contains 90-100% sulfamic acid) (unused)	1	kit	corr.mat	UN1759	NRM

MSP Ref #9004328

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1. [Signature] 2. 9/10/90
SIGNATURE DATE

Laura R. Traweck 4. Operations Chemist
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/6/90

GENERATOR LOCATION: 4150 Clement Street EPA ID: CA8360010328
San Francisco, CA 94121

LAB PACK CONTAINER NO: 3 PAGE 3 OF 16

DESCRIPTION: Waste Flammable Liquid, Corrosive NOS UN/ NA NO: UN2924
(D001/D002), Flammable Liquid

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	<u>thionyl chloride</u>	<u>2</u>	<u>500mls</u>	<u>corr.mat</u>	<u>UN1836</u>	<u>D002, D003</u>
02	<u>dichlorodimethyl silane</u>	<u>100</u>	<u>mls</u>	<u>flam.liq</u>	<u>UN2924</u>	<u>D001, D003</u>
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1. *Laura R. Traweck* 2. 9/10/90
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3. Laura R. Traweck 4. Operations Chemist
NAME (Type or Print) TITLE

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 1317
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST No 018363

Please print or type. (Form designed for use on site (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law
3. Generator's Name and Mailing Address Veterans Administration Medical Center 2001 Miranda Avenue Palo Alto, CA 94304		4. Generator's Phone (415) 858-4444		A. State Manifest Document Number	
5. Transporter 1 Company Name		6. US EPA ID Number		B. State Generator's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number		D. Transporter's Phone (415) 858-2000	
				E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone (504) 631-3161	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Waste: Flammable Liquid, Poisonous, NOS. UN1992 Drum 5 (sodium monofluorophosphate/UF01) Flammable Liquid		No. Type	80	D	D001, U122, D008
b. Waste: Flammable Liquid, NOS. (D001/D002) UN1203 Drum 6		No. Type	20	D	D001, D007
c. Waste: Flammable Liquid, NOS. (D001/D002) UN1203 Drum 7		No. Type	60	D	D001 R
d. Hazardous Waste Solid NOS (F001/F003/F004) Drum 8 ORM-E NA9189		No. Type	200	P	F001, F003, F004
J. Additional Descriptions for Materials Listed Above A: 30gal drum. Additional EPA codes: P558, U101, U247, D001. B: 5gal drum. 7&B are lab packs. See enclosed lists for contents. MSP approval code: NSTE/VDC/9803723/LP/C:100% aerosol cans. (typical contents: lubricants, belt dressings, penetrants, shop prints). MSP approval code: NSTE/VDC/9804126/D: NSTE/VDC/9804354, 125gal drum		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Emergency Contact: Stu Bailey (504) 631-3161 Not gloves, goggles, and respirator if drum is opened. IF UNABLE TO DELIVER, RETURN TO GENERATOR		containing 90-94% diatomaceous earth, 6-10% carbonaceous cleaner.			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Stuart M. Bailey		Signature Stuart M. Bailey		Month Day Year 1991/1/18	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name TRFULTON		Signature TRFULTON		Month Day Year 09/1/90	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Dan L. Lamon					
Signature Dan L. Lamon		Signature Dan L. Lamon		Month Day Year 1991/1/18	

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MANIFESTS

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

AUG 08 1990 For MSP Use Only

9004130

Approval Code _____

A. Generator Information

Generator Name VETERANS ADMINISTRATION MEDICAL CENTER
Site Address 3801 MIRANDA AVE.
City PALO ALTO State CA Zip Code 94304
Generator Contact STU BAILEY
Title INDUSTRIAL HYGIENIST
Telephone No. (415) 493-5000
Facility EPA I.D. No. CA1981374853

B. Customer Information

Company Name NORTH STATE ENVIRONMENTAL
Contact LINDA MCCORMICK
Address 90 SO. SPRUCE AVE., STE. W
PO. SAN FRANCISCO, CA 94083
Telephone No. (415) 588-9694
For Customer Use _____

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) D001

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)
AEROSOL CANS (TYPICAL CONTENTS: LUBRICANTS, BELT DRESSINGS, PENETRANTS, SHOP PAINTS)
MIN 100% MAX _____

Common Name of Waste: AEROSOL CANS

E. General Characteristics

Color: VARIES WITH PRODUCT
Odor: ☒ None ☐ Mild ☐ Strong
☒ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☐ N ☒ Polymerizable? Y ☐ N ☒
Infectious? Y ☐ N ☒ Pyrophoric? Y ☐ N ☒
Water Reactive? Y ☐ N ☒ Explosive? Y ☐ N ☒

G. Physical/Chemical Properties

Ash (list actual Wt %) 10% Water (Wt %) ☒ <1 ☐ 5-10
BTU's per lb (list actual value) 10000 ☐ 1-5 ☐ >10
Specific Gravity ☐ <0.8 ☐ 1.2-1.4
☐ 0.8-1.0 ☐ 1.4-1.7
☒ 1.0-1.2 ☐ >1.7
Viscosity (for bulk liquids only) _____ cp
list actual in centipoise _____
Total Suspended Solids (Wt % for bulk liquids only) ☐ 5-20
☐ >20
list actual _____
pH ☐ 2-6 ☒ 6-10
☐ 10-12.5
if <2 or >12.5
list actual _____

Flash Point (closed cup) ☒ <100°F ☐ >200°F
☐ 100°-140°F ☐ _____ °F
☐ 140°-200°F actual _____
Sulfur (Wt %) ☒ <5
if >5 list actual value _____
Halogens (Wt %) ☐ <1 ☐ 1-5 ☐ 5-10 ☐ >10 list actual Wt %
☐ Iodine ☒ ☐ ☐
☐ Bromine ☒ ☐ ☐
☐ Chlorine ☒ ☐ ☐
☐ Fluorine actual Wt % _____

Metals: EP Toxicity Test (MG/L) NS = NONE SUSPECTED
Arsenic (As) NS Selenium (Se) NS
Barium (Ba) NS Silver (Ag) NS
Cadmium (Cd) NS Copper (Cu) NS
Chromium (Cr) NS Nickel (Ni) NS
Lead (Pb) NS Zinc (Zn) NS
Mercury (Hg) NS
Organics (ppm) NS = NONE SUSPECTED
Endrin NS If material contains the following compounds, indicate actual ppm:
Lindane NS PCB NS
Methoxychlor NS Cyanides NS
Toxaphene NS Sulfides NS
2,4-D NS Dioxin NS
2,4,5-TP (Silvex) NS

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

9003723

JUL 10 1990

For MSP Use Only

Approval Code

A. Generator Information

Generator Name VETERANS ADMINISTRATION MEDICAL CENTER
Site Address 3801 MIRANDA AVE.
City PAID ALTO State CA Zip Code 94304
Generator Contact STU BAILEY
Title INDUSTRIAL HYGIENIST
Telephone No. (415) 498-5000
Facility EPA I.D. No. CAD981374853

B. Customer Information

Company Name NORTH STATE ENVIRONMENTAL
Contact LINDA MCCORMICK
Address 9000 SPRUCE AVE., STE. W
90 SAN FRANCISCO, CA 94080
Telephone No. (415) 688-9694
For Customer Use 9X5GAL, 8X14GAL, 2X30GAL
LAB PAOKS

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) SEE ATTACHED SHEETS

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

LAB PAOKS - SEE ATTACHED SHEETS

MIN

MAX

Common Name of Waste: LAB PAOKS

E. General Characteristics

Color: SEE ATTACHED SHEETS
Odor: ☐ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☐ Solid ☐ Powder
Phases ☐ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y	N	Polymerizable?	Y	N
Infectious?	Y	N	Pyrophoric?	Y	N
Water Reactive?	Y	N	Explosive?	Y	N

G. Physical/Chemical Properties

SEE ATTACHED SHEETS

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
	☐ <1 ☐ 5-10	☐ <0.8 ☐ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 ☐ 6-10
BTUs per lb	☐ 1-5 if > 10	☐ 0.8-1.0 ☐ 1.4-1.7	list actual in centipoise	☐ 5-20	☐ 10-12.5
(list actual value)		☐ 1.0-1.2 ☐ > 1.7		if > 20	if < 2 or > 12.5
	list actual	list actual	cp	list actual	list actual

Flash Point (closed cup)	Sulfur (Wt %)	Halogens (Wt %)	if > 10 list actual Wt %
☐ < 100°F ☐ > 200°F	☐ < 5	☐ <1 ☐ 1-5 ☐ 5-10	
☐ 100°-140°F ☐ actual	if > 5 list actual value	11 Iodine ☐ ☐ ☐	
		11 Bromine ☐ ☐ ☐	
		11 Chlorine ☐ ☐ ☐	
		11 Fluorine ☐ actual Wt %	

Metals: EP Toxicity Test (MG/L) SEE ATTACHED SHEETS

Arsenic (As)	Selenium (Se)	Endrin	If material contains the following compounds, indicate actual ppm:	
Barium (Ba)	Silver (Ag)	Lindane		PCB <u>NS</u>
Cadmium (Cd)	Copper (Cu)	Methoxychlor		Cyanides
Chromium (Cr)	Nickel (Ni)	Toxaphene		Sulfides
Lead (Pb)	Zinc (Zn)	2,4-D		Dioxin
Mercury (Hg)		2,4,5-TP (Silvex)		

NS = NONE DETECTED

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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 1 PAGE 1 OF 13

DOT DESCRIPTION: Hazardous Waste Liquid NOS UN/ NA NO: NA9189
(aqueous picric acid), ORM-E

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	aqueous solution of < 10% picric acid	4	1	NRM		NRM
02						
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I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 7/9/90
SIGNATURE DATE

1. Linda B. McCormick 1. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

AB PACK CONTAINER NO: 2 PAGE 2 OF 13

DOT DESCRIPTION: Hazardous Waste Liquid NOS UN/ NA NO: NA9189
(aqueous picric acid), ORM-E

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	aqueous solution of < 10% picric acid	4	L	NRM		NRM
02						
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3. Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 3 PAGE 3 OF 13

DOT DESCRIPTION: Hazardous Waste Liquid NOS UN/ NA NO: NA9189
(aqueous picric acid), ORM-E

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	aqueous solution of < 10% picric acid	4	1	NRM		NRM
02						
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 4 PAGE 4 OF 13

DOT DESCRIPTION: Hazardous Waste Liquid NOS UN/ NA NO: NA9189
(aqueous picric acid), ORM-E

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	aqueous solution of < 10% picric acid	4	L	NRM		NRM
02						
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 4 PAGE 4 OF 13

DOT DESCRIPTION: Hazardous Waste Liquid NOS UN/ NA NO: NA9189
(aqueous picric acid), ORM-E

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	aqueous solution of < 10% picric acid	4	L	NRM		NRM
02						
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GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 91304

LAB PACK CONTAINER NO: 5 PAGE 5 OF 13

DOT DESCRIPTION: Hazardous Waste Liquid NOS UN/ NA NO: NA9189
(aqueous picric acid), ORM-E

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	aqueous solution of < 10% picric acid	1	1	NRM		NRM
02						
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 91304

LAB PACK CONTAINER NO: 6 PAGE 6 OF 13

DOT DESCRIPTION: Hazardous Waste Liquid NOS UN/ NA NO: NA9189
(aqueous picric acid), ORM-E

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	aqueous solution of < 10% picric acid	4	1	NRM		NRM
02						
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GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

AB PACK CONTAINER NO: 7 PAGE 7 OF 13

DOT DESCRIPTION: Non-RCRA Hazardous Waste Solid UN/NA NO:

CONTAINER SIZE: 30GAL. CONTAINER TYPE: FIBER
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	Kodak Hypo Clearing Agent (75-80% sodium sulfite, 15-20% sodium metabisulfite, 1-5% tetrasodium ethylenediamine tetraacetate, 1-5% sodium citrate)	9	11b	NRM		NRM
02	Kodak potassium bromide	16	11b	NRM		NRM
03	Kodak Developer D-11 (60-65% sodium sulfite, 25-30% sodium carbonate, 1-10% hydroquinone)	9	11b	NRM		NRM
04	Kodak sodium sulfite, anhyd.	1	1b	NRM		NRM
05	Kodak Elon (100% p-methylamino phenol sulfate)	2	11b	NRM		NRM
06	Kodak borax	3	11b	NRM		NRM
07	Kodak hydroquinone	2	11b	NRM		NRM
08	Kodak Balanced Alkali (100% sodium metaborate oxyhydrate)	1	11b	NRM		NRM
09	Kodak sodium sulfite, anhyd.	25	1bs	NRM		NRM
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 8 PAGE 8 OF 13

DOT DESCRIPTION: Waste Sodium, Metal, UN/
Flammable Solid NA NO: UN1428

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>sodium spheres</u>	<u>100</u>	<u>G</u>	<u>flam.solid</u>	<u>UN1428</u>	<u>D001/D003</u>
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 9 PAGE 9 OF 13

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous NOS UN/ NA NO: UN1992
(potassium cyanide/D003), Flammable Liquid

CONTAINER SIZE: 14 GAL. CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	ammonium sulfide sol'n	500	mls	flam.liq	UN2683	D001/D003
02	ammonium hydroxide	2	L	ORM-A	NA2672	D002
03	0.1M potassium cyanide	200	mls	poison B	UN1680	P098
04	sodium hydroxide, solid	1	lb	corr.mat	UN1823	D002
05	51% aq. sodium thiocyanate	8	oz	NRM		NRM
06	sodium thiocyanate	1	lb	NRM		NRM
07	potassium thiocyanate	1/4	lb	NRM		NRM
08	sodium thiocyanate	1/4	lb	NRM		NRM
9	aqueous sodium sulfide	2	oz	NRM		D003
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

AB PACK CONTAINER NO: 10 PAGE 10 OF 13

DOT DESCRIPTION: Waste Trimethylchlorosilane, Flammable Liquid UN/NA NO: UN1298

CONTAINER SIZE: 5gal (30 Gal. or less) CONTAINER TYPE: poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>Kodak chlorotrimethyl silane</u>	<u>250</u>	<u>mls</u>	<u>flam.liq</u>	<u>UN1298</u>	<u>D001</u>
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 11 PAGE 11 OF 13
UN/

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous NOS NA NO: UN1992
(sodium monofluoroacetate/U101), Flammable Liquid

CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	ink powder	1/2	lb	NRM		NRM
02	37% formaldehyde	250	mls	ORM-A	UN1198	U122
03	lead citrate sol'n	100	mls	NRM		D008
04	sodium monofluoroacetate	2	25g	poison B	UN2811	P058
05	sodium monofluoroacetate, ethyl ester	25	g	poison B	UN2811	NRM
06	dimethyl phenol	100	g	NRM		U101
07	2-methoxyethylamine, 97%	10	mls	NRM		NRM
08	p-naphthoflavone	1	g	NRM		NRM
09	malonaldehyde glycerol diacetal	10	g	NRM		NRM
10	2-methoxy-5-nitropyridine	25	g	NRM		NRM
11	n-octylamine	10	g	NRM		NRM
12	6-methoxypurine	250	mg	NRM		NRM
13	methoxychlor	1	g	NRM		U247
14	2-cyclohexen-1-ol, 96%	5	mls	NRM		NRM
15	water based paint	2	gal	comb.liq	UN1263	NRM
16	pyrocatechol	4	oz	NRM		NRM

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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90
GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 11 PAGE 11B OF 13

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous NOS UN/ UN1992
(sodium monofluoroacetate/U101), Flammable Liquid
CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
17	pyrocatechin	500	g	NRM		NRM
18	citric acid	2	1lb	NRM		NRM
19	zinc sulfate	1	1b	NRM		NRM
20	sodium bisulfite	2	1lb	ORM-B	UN1821	NRM
21	film cement	2	oz	flam.liq	NA1133	D001
22	crocein scarlet	1	oz	NRM		NRM
23	sodium sulfite	1	1b	NRM		NRM
24	potassium oxalate	1	1b	NRM		NRM
25	glycine	2	oz	NRM		NRM
26	benzotriazole	1	oz	NRM		NRM
27	Kodak Anti-Fog No.1 (100% benzotriazole)	14	4oz	NRM		NRM
28						
29						
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31						
32						

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1. Linda B. McCormick 2. 7/9/90
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 12 PAGE 12 OF 13

DOT DESCRIPTION: Waste Oxidizer NOS (D001/D007), UN/ NA NO: UN1479
Oxidizer

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	Purex bleach (5% aqueous sodium hypochlorite sol'n)	4	oz	ORM-B	NA1791	D001
02	silver nitrate	1	lb	oxidizer	UN1493	D001
03	potassium dichromate	2	1lb	ORM-A	NA1479	D001/D007
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90
GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

☐ AB PACK CONTAINER NO: 13 PAGE 13 OF 13

DOT DESCRIPTION: Non-RCRA Hazardous Waste Solid UN/NA NO:

CONTAINER SIZE: 14gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	Kodak sodium sulfite, anhyd.	25	lbs	NRM		NRM
02						
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04						
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GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

AB PACK CONTAINER NO: 1 PAGE 1 OF 7

DOT DESCRIPTION: Non-RCRA Hazardous Waste Solid UN/ NA NO:

CONTAINER SIZE: 30GAL CONTAINER TYPE: FIBER
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	Kodak Hypo Clearing Agent (75-80% sodium sulfite, 15-20% sodium metabisulfite, 1-5% tetrasodium ethylenediamine tetraacetate, 1-5% sodium citrate)	9	11b	NRM		NRM
02	Kodak potassium bromide	16	11b	NRM		NRM
03	Kodak Developer D-11 (60-65% sodium sulfite, 25-30% sodium carbonate, 1-10% hydroquinone)	9	11b	NRM		NRM
04	Kodak sodium sulfite, anhyd.	1	1b	NRM		NRM
05	Kodak Elon (100% p-methylamino phenol sulfate)	2	11b	NRM		NRM
06	Kodak borax	8	11b	NRM		NRM
07	Kodak hydroquinone	2	11b	NRM		NRM
08	Kodak Balanced Alkali (100% sodium metaborate oxyhydrate)	1	11b	NRM		NRM
09	Kodak sodium sulfite, anhyd.	25	1bs	NRM		NRM
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12	MCD8 9003723					
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GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
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B PACK CONTAINER NO: 2

PAGE 2 OF 7

DOT DESCRIPTION: Waste Sodium, Metal,
Flammable Solid

UN/
NA NO: UN1428

CONTAINER SIZE: 5GAL
(30 Gal. or less)

CONTAINER TYPE: POLY
(Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>sodium spheres</u>	<u>100</u>	<u>g</u>	<u>flam.solid</u>	<u>UN1428</u>	<u>D001/</u>
02						<u>D003</u>
03						
04						
05						
06						
07	<u>MCD3 9003723</u>					
08						
09						
10						
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13						
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16						

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 7/9/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90
GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

AB PACK CONTAINER NO: 3 PAGE 3 OF 7

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous NOS (potassium cyanide/D003), Flammable Liquid UN/ NA NO: UN1992

CONTAINER SIZE: 14GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	ammonium sulfide sol'n	500	mls	flam.liq	UN2683	D001/ D003
02	ammonium hydroxide	2	L	ORM-A	NA2672	D002
03	0.1M potassium cyanide	200	mls	poison B	UN1680	P098
04	sodium hydroxide, solid	1	lb	corr.mat	UN1823	D002
05	51% aq. sodium thiocyanate	8	oz	NRM		NRM
06	sodium thiocyanate	1	lb	NRM		NRM
07	potassium thiocyanate	1/4	lb	NRM		NRM
08	sodium thiocyanate	1/4	lb	NRM		NRM
	aqueous sodium sulfide	2	oz	NRM		D003
10						
11						
12						
13	METS 9003723					
14						
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16						

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 7/9/90
SIGNATURE DATE

3. Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90
GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 4 PAGE 4 OF 7

DOT DESCRIPTION: Waste Trimethylchlorosilane, Flammable Liquid UN/NA NO: UN1298

CONTAINER SIZE: 5gal (30 Gal. or less) CONTAINER TYPE: poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>Kodak chlorotrimethyl silane</u>	<u>250</u>	<u>mls</u>	<u>flam.liq</u>	<u>UN1298</u>	<u>D001</u>
02						
03						
04						
05						
06						
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MCD 9003723

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1. Linda B. McCormick 2. 7/9/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90
GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 5 PAGE 5 OF 7

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous NOS NA NO: UN1992
(sodium monofluoroacetate/U101), Flammable Liquid
CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

MCDS 9003723

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	ink powder	1/2	lb	NRM		NRM
02	37% formaldehyde	250	mls	ORM-A	UN1198	U122
03	lead citrate sol'n	100	mls	NRM		D008
04	sodium monofluoroacetate	2	25g	poison B	UN2811	P058
05	sodium monofluoroacetate, ethyl ester	25	g	poison B	UN2811	NRM
06	dimethyl phenol	100	g	NRM		U101
07	2-methoxyethylamine, 97%	10	mls	NRM		NRM
08	p-napthoflavone	1	g	NRM		NRM
	malonaldehyde glycerol diacetal	10	g	NRM		NRM
10	2-methoxy-5-nitropyridine	25	g	NRM		NRM
11	n-octylamine	10	g	NRM		NRM
12	6-methoxypurine	250	mg	NRM		NRM
13	methoxychlor	1	g	NRM		U247
14	2-cyclohexen-1-ol, 96%	5	mls	NRM		NRM
15	water based paint	2	gal	comb.liq	UN1263	NRM
16	pyrocatechol	4	oz	NRM		NRM

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1. Linda B. McCormick 2. 7/9/90
SIGNATURE DATE
3. Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90
GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

AB PACK CONTAINER NO: 5 PAGE 5B OF 7
DOT DESCRIPTION: Waste Flammable Liquid, Poisonous NOS UN/ UN1992
(sodium monofluoroacetate/U101), Flammable Liquid
CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
17	pyrocatechin	500	g	NRM		NRM
18	citric acid	2	1lb	NRM		NRM
19	zinc sulfate	1	1b	NRM		NRM
20	sodium bisulfite	2	1lb	ORM-B	UN1821	NRM
21	film cement	2	oz	flam.liq	NA1133	D001
22	crocein scarlet	1	oz	NRM		NRM
23	sodium sulfite	1	1b	NRM		NRM
24	potassium oxalate	1	1b	NRM		NRM
	glycine	2	oz	NRM		NRM
26	benzotriazole	1	oz	NRM		NRM
27	Kodak Anti-Fog No.1					
	(100% benzotriazole)	14	4oz	NRM		NRM
28						
29	MEDS 9003723					
30						
31						
32						

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Linda B. McCormick 2. 7/9/90
SIGNATURE DATE

Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90
GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 6 PAGE 6 OF 7

DOT DESCRIPTION: Waste Oxidizer NOS (D001/D007), UN/ NA NO: UN1479
Oxidizer

CONTAINER SIZE: 5gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	Purex bleach (5% aqueous sodium hypochlorite sol'n)	4	oz	ORM-B	NA1791	D001
02	silver nitrate	1	lb	oxidizer	UN1493	D001
03	potassium dichromate	2	1lb	ORM-A	NA1479	D001/D007
04						
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1. Linda B. McCormick 2. 7/9/90
SIGNATURE DATE

3. Linda B. McCormick 4. Technical Operations Manager
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GENERATOR NAME: Veterans Administration Medical Center DATE: 7/9/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

AB PACK CONTAINER NO: 7 PAGE 7 OF 7

DOT DESCRIPTION: Non-RCRA Hazardous Waste Solid UN/NA NO:

CONTAINER SIZE: 14gal CONTAINER TYPE: poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA NO.
01	<u>Kodak sodium sulfite, anhyd.</u>	<u>25</u>	<u>lbs</u>	<u>NRM</u>		<u>NRM</u>
02						
03						
04						
05						
06						
07						
08	<u>MCDS 9003723</u>					
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1. Linda B. McCormick 2. 7/9/90
SIGNATURE DATE

3. Linda B. McCormick 4. Technical Operations Manager
NAME (Type or Print) TITLE

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GENERATOR NAME: Veterans Administration Medical Center DATE: 8/16/90

GENERATOR LOCATION: 3801 Miranda Ave. EPA ID: CAD981374853
Palo Alto, CA 94304

LAB PACK CONTAINER NO: 2 PAGE 2 OF 7

DOT DESCRIPTION: Waste Sodium, Metal, UN/ NA NO: UN1428
Flammable Solid

CONTAINER SIZE: 5GAL CONTAINER TYPE: POLY
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO.
01	sodium spheres (packed in oil)	100	g	flam.solid	UN1428	D001/ D003

MCDS #9003723

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1. Linda B. McCormick 2. 8/16/90
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3. Linda B. McCormick 4. Technical Operations Manager
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MANIFEST No. 018816

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MSDOOT

SPA Form 2702-77 (Rev. 9-78) WHITE - DFO C... Generalist YELLOW - TSDRE BLUE - Transponder 2 PIN... Transponder 1. GOLD - Generalist DFO FORM 2702-77 (R 9-78)



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.

110 James Drive West, Suite 120

St. Rose, LA 70087

504-465-3310

9004176

AUG 13 1990 For MSP Use Only

Approval Code _____

A. Generator Information

Generator Name Naval Aviation Depot
Site Address Building R-51
City Norfolk State VA Zip Code 23511
Generator Contact Kevin Sammers
Title Environmental Engineer
Telephone No. (804) 444-8398
Facility EPA I.D. No. VA6170061463

B. Customer Information

Company Name W.L. Black & Associates
Contact Harry C. Wheeler, Jr.
Address P.O. Box 1363
Chesapeake, VA 23320
Telephone No. (804) 424-7925
For Customer Use _____

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) P015

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>Water (Contains 0.011 ppm Beryllium)</u>		<u>98</u>
<u>Tyvek</u>		<u>2</u>
<u>Rubber gloves</u>		<u><1</u>

Common Name of Waste: _____

E. General Characteristics

Color: Colorless
Odor: ☒ None ☐ Mild ☐ Strong
☒ Liquid ☐ Sludge ☐ Solid ☐ Powder
Phases ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N Polymerizable? Y ☒ N
Infectious? Y ☒ N Pyrophoric? Y ☒ N
Water Reactive? Y ☒ N Explosive? Y ☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %) <u>None</u>	Water (Wt %) ☐ <1 ☐ 5-10 ☐ 1-5 if > 10	Specific Gravity ☐ < 0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ > 1.7	Viscosity (for bulk liquids only) list actual in centipoise <u>N/A</u> cp	Total Suspended Solids (Wt % for bulk liquids only) ☐ 5-20 if > 20	pH ☐ 2-6 ☐ 6-10 ☐ 10-12.5 if < 2 or > 12.5
BTU's per lb (list actual value) <u>None</u>	list actual <u>99%</u>	list actual <u>1.0</u>		list actual <u>N/A</u>	list actual <u>7</u>

Flash Point (closed cup) ☐ < 100°F ☐ > 200°F ☐ 100°-140°F ☐ None °F ☐ 140°-200°F actual	Sulfur (Wt %) ☒ < 5 if > 5 list actual value _____	Halogens (Wt %) ☒ Iodine ☐ 1-5 ☐ 5-10 ☐ > 10 list actual Wt % ☒ Bromine ☐ ☐ ☒ Chlorine ☐ ☐ ☐ Fluorine actual Wt % _____
---	--	---

Metals: EP Toxicity Test (MAG/L)

Arsenic (As) <u>N/S</u>	Selenium (Se) <u>N/S</u>	Organics (ppm) Endrin <u>N/S</u>	If material contains the following compounds, indicate actual ppm: PCB <u>N/S</u> Cyanides <u>N/S</u> Sulfides <u>N/S</u> Dioxin <u>N/S</u>
Barium (Ba) <u>N/S</u>	Silver (Ag) <u>N/S</u>	Lindane <u>N/S</u>	
Cadmium (Cd) <u>N/S</u>	Copper (Cu) <u>N/S</u>	Methoxychlor <u>N/S</u>	
Chromium (Cr) <u>N/S</u>	Nickel (Ni) <u>N/S</u>	Toxaphene <u>N/S</u>	
Lead (Pb) <u>N/S</u>	Zinc (Zn) <u>N/S</u>	2,4-D <u>N/S</u>	
Mercury (Hg) <u>N/S</u>		2,4,5-TP (Silvex) <u>N/S</u>	

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SOLUTIONS LABORATORIES INC

REPORT OF ANALYSIS

08/03/90

W. L. BLACK
P. O. BOX 1363
CHESAPEAKE, VA 23320

ATTN: GENE BROWN
SAMPLE OF: WATER FROM NADEP
SAMPLE I. D. #: 2046
SOL LOG NO: 2892
DATE/TIME RECEIVED: 08/02/90, 2:45 PM
METHOD: 7090

RESULTS

INORGANIC ANALYSIS

2892

TOTAL BERYLLIUM

< 0.011

SIGNATURE *Dorothy S. Small*
DOROTHY S. SMALL
PRESIDENT

PAGE 1 OF 2

814-H Greenbrier Circle, Chesapeake, Virginia 23320
(804) 420-0467

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MSDOOT

EPA Form 8700-22 (Rev. 9-88)

WHITE - DEQ. GR

Generator, YELLOW -

RE/BLUE - Transpore

INK-Transporter 1, GO

Generator DEQ FO

W-3 (R 9)



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.

110 James Drive West, Suite 120

St. Rose, LA 70087

504-465-3310

9003605

JUN 29 1990

For MSP Use Only

Approval Code

SOUTH 7TH AVE

A. Generator Information

Generator Name DRUG ENFORCEMENT ADMIN

Site Address 3010 N 2ND STREET

City PHOENIX State AZ Zip Code 85012

Generator Contact KEVIN CARVER / ALAN WINN

Title AGENT

Telephone No. (602) 640-5700

Facility EPA I.D. No. AZP000006350

B. Customer Information

Company Name DISPOSAL CONTROL SERVICE

Contact CYNTHIA CLOWES

Address 888 WILLINI

PHOENIX AZ 85041

Telephone No. (602) 268-0999

For Customer Use

C. Regulatory Information

☒ RCRA Regulated

☐ Land Ban

☐ Non-Regulated

EPA Waste Code(s)

SEE ATTACHED INVENTORY SHEET

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

RED PHOSPHORUS LAB PACK

MIN

MAX

Common Name of Waste: LAB PACK

E. General Characteristics

Color:

Odor: ☐ None ☐ Mild ☐ Strong

☐ Liquid ☐ Sludge ☐ Solid ☐ Powder

Phases ☐ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? ☐ Y ☐ N Polymerizable? ☐ Y ☐ N

Infectious? ☐ Y ☐ N Pyrophoric? ☐ Y ☐ N

Water Reactive? ☐ Y ☐ N Explosive? ☐ Y ☐ N

G. Physical/Chemical Properties

Ash (Est actual Wt %)

Water (Wt %)

Specific Gravity

Viscosity

Total suspended Solids

pH

BTU's per lb

if > 10

if > 1.0

list actual in centipoise

if > 20

if < 2 or > 12.5

(Est actual value)

list actual

list actual

cp

list actual

list actual

Flash Point (closed cup)

Sulfur (Wt %)

Halogens (Wt %)

if > 10 list actual Wt %

☐ < 100°F ☐ > 200°F

☐ < 5 ☐ > 5 list actual Wt %

☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine

actual Wt %

☐ 100°-140°F ☐ actual

Metals: EP Toxicity Test (MG/L)

Arsenic (As)

Selenium (Se)

Barium (Ba)

Silver (Ag)

Cadmium (Cd)

Copper (Cu)

Chromium (Cr)

Nickel (Ni)

Lead (Pb)

Zinc (Zn)

Mercury (Hg)

Organics (ppm)

Endrin

Lindane

Methoxychlor

Toxaphene

2,4-D

2,4,5-TP (Silvex)

If material contains the following compounds, indicate actual ppm:

PCB

Cyanides

Sulfides

Dioxin

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RUN # 6 MANIFEST # 06029 PROFILE # MSP
 YT PROPER SHIPPING NAME: Flam. Solid HAZARD CLASS: Flammable IN/NA: 133
 PA WASTE CODE: D001 NAME OF PACKAGER: CONTAINER TYPE: 3 Gal. poly

CONTAINER INVENTORY					
	WASTE IDENTIFICATION		CONTAINERS		OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	SIZE	TYPE	
1	Red Phosphorous	D001	1	125 Gram metal	molded rod
2					
3					
4					
5					
6					
7					
8					
9					
0					
1					
2					
3					
4					
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DISPOSAL CONTROL SERVICE, INC.

888 W. ILUNI STREET, PHOENIX, ARIZONA 85041
(602) 268-0999 WATTS (800) 433-4981 (AZ Only)

Date: JUNE 22 1990

I am an authorized employee of Disposal Control Service, Inc., the company preparing the Lab Packs for DRUG ENFORCEMENT ADMIN., I hereby certify that the Lab Packs represented by this Material Characterization Data Sheet and Lab Pack Packing Lists are prepared and shipped in full compliance with the Marine Shale Processors, Inc. Lab Pack Guidelines.

Respectfully,

[Signature]
Disposal Control Service, Inc.

Re: LAB PACK

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JUL 13 1990

9003605

SOUTH 7TH AVE

MATERIALS CHARACTERIZATION DATA SHEET

M NE SHALE PROCESSORS, INC.
1 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

For MSP Use Only

Approval Code _____

A. Generator Information

Generator Name DRUG ENFORCEMENT ADMIN
Site Address 3010 N 2ND STREET
City PHOENIX State AZ Zip Code 85012
Generator Contact KEVIN CARVER / ALAN WINN
Title AGENT
Telephone No. (602) 640-5700
Facility EPA I.D. No. AZP000006350

B. Customer Information

Company Name DISPOSAL CONTROL SERVICE
Contact CYNTHIA CLOWES
Address 888 WILLINI
PHOENIX AZ 85041
Telephone No. (602) 268-0999
For Customer Use _____

C. Regulatory Information

☒ RCRA Regulated

☐ Land Ban

☐ Non-Regulated

EPA Waste Code(s) SEE ATTACHED INVENTORY SHEET

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

RED PHOSPHORUS LAB PACK

MIN

MAX

100

Common Name of Waste: LAB PACK

E. General Characteristics

Color: _____

Odor: ☐ None ☐ Mild ☐ Strong

☐ Liquid ☐ Sludge ☐ Solid ☐ Powder

Phases ☐ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? Y N Polymerizable? Y N

Infectious? Y N Pyrophoric? Y N

Water Reactive? Y N Explosive? Y N

G. Physical/Chemical Properties

Ash (Est actual Wt %)

Water (Wt %)

Specific Gravity

Viscosity

Total Solids

pH

BTUs per lb

☐ < 1 ☐ 1-5 ☐ > 10

☐ < 0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☐ > 1.2

(for bulk liquids only)

(Wt % for bulk liquids only)

☐ 2-6 ☐ 6-10

(Est actual value)

☐ 1-5 ☐ > 10

☐ 0.8-1.0 ☐ 1.0-1.2 ☐ > 1.2

list actual in container

☐ 5-20 ☐ > 20

☐ 10-12.5

Est actual

Est actual

cp

list actual

list actual

Flash Point (closed cup)

Sulfur (Wt %)

Halogens (Wt %)

if > 10 list actual Wt %

☐ < 100°F ☐ > 200°F

☐ < 5 ☐ > 5 list actual Wt %

☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine

☐ < 1 ☐ 1-5 ☐ 5-10 ☐ > 10 list actual Wt %

☐ 100°-140°F ☐ _____ °F

☐ 140°-200°F actual

☐ < 5 ☐ > 5 list actual Wt %

☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine

☐ < 1 ☐ 1-5 ☐ 5-10 ☐ > 10 list actual Wt %

Metals: EP Toxicity Test (MCL)

As (As)

Selenium (Se)

Organics (ppm)

if material contains the following compounds, indicate actual ppm:

Cd (Cd)

Silver (Ag)

Endrin

PCB

Cr (Cr)

Copper (Cu)

Heptachlor

Cyanides

Pb (Pb)

Nickel (Ni)

Toxaphene

Sulfides

Hg (Hg)

Zinc (Zn)

2,4-D

Dioxin

2,4,5-TP (Silver)

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST No. 015882

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's Name and Mailing Address
U.S. Circuit
1526 Sterling Ct, Escondido, CA 92025

2. Generator's Phone (619) 487-1413

3. Transporter 1 Company Name
James Murphy

4. Transporter 2 Company Name
Rust & Sons Trucking

5. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380

6. US EPA ID Number
CIA1019181016171314171151812

7. US EPA ID Number
CIA1019181016171314171151812

8. US EPA ID Number
CIA1019181016171314171151812

9. US EPA ID Number
CIA1019181016171314171151812

10. US EPA ID Number
CIA1019181016171314171151812

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
		No.	Type		
a. Hazardous Waste liquid, N.O.S. /ORME/NA9187		0101	MD	00055	G
b. Non Regulated material /Non-Reg		0102	MD	00110	G
c.					
d.					

16. Additional Descriptions for Materials Listed Above

Waste photo resist sludge # JMC/400/7000664

Waste sand # JMC/400/7000665

17. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Wear appropriate protective gear

IF UNABLE TO DELIVER, RETURN TO GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name
KISHOR V GUNDRANIA

Signature
Kishor V Gundrania

Month Day Year
01/11/1990

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Harold S. Fitz Gerald

Signature
Harold S. Fitz Gerald

Month Day Year
01/11/1990

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Harold S. Fitz Gerald

Signature
Harold S. Fitz Gerald

Month Day Year
01/11/1990

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Barbara Fontenot

Signature
Barbara Fontenot

Month Day Year
08/21/1990

EPA Form 7700-22 (Rev. 9/88) WHITE - DEQ, GREEN - Generator, YELLOW - TSDRF, BLUE - Transporter 2, PINK - Transporter 1, GOLD - Consignee

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.

MAY 14 1990

110 James Drive West, Suite 120

St. Rose, LA 70087

504-465-3310

9002665

For MSP Use Only

Approval Code _____

A. Generator Information

Generator Name U.S. Circuit
Site Address 1526 Sterling Ct
City Escondido State Ca Zip Code 92025
Generator Contact Rick Allenby
Title mgr
Telephone No. 619 489-1413
Facility EPA I.D. No. CA0980673347

B. Customer Information

Company Name James Murphy
Contact Dennis Lynch
Address 3840 Reche rd
Fallbrook, Ca 92028
Telephone No. 619 723-5871
For Customer Use _____

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non-Regulated EPA Waste Code(s) _____

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>Silica 20 (sand)</u>	<u>85</u>	<u>95</u>
<u>Copper</u>	<u>3</u>	<u>5</u>
<u>Moisture</u>	<u>5</u>	<u>10</u>

Common Name of Waste: Waste sand

E. General Characteristics

Color: Brown
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (Est actual Wt %) 75 Water (Wt %) ☒ <1 ☐ 5-10
BTU's per lb (Est actual value) <500 ☐ 1-5 ☒ >10
Specific Gravity ☐ <0.8 ☐ 1.2-1.4
☐ 0.8-1.0 ☐ 1.4-1.7
☐ 1.0-1.2 ☐ >1.7
Viscosity (for bulk liquids only) _____ cp
Est actual in centipoise _____
Total Suspended Solids (Wt % for bulk liquids only) 100
☐ 5-20 ☐ 10-12.5
☒ >20 ☐ <2 or >12.5
pH: ☐ 2-6 ☒ 6-10
☐ 10-12.5 ☐ <2 or >12.5
Est actual _____

Flash Point (closed cup)

☐ < 100°F ☒ > 200°F
☐ 100°-140°F ☐ _____ °F
☐ 140°-200°F actual _____

Sulfur (Wt %)

☒ < 5
If > 5 Est actual value _____

Halogens (Wt %) ☒ <1 ☐ 1-5 ☐ 5-10 ☐ >10 Est actual Wt %
☐ Iodine ☒ ☐ ☐
☐ Bromine ☒ ☐ ☐
☐ Chlorine ☒ ☐ ☐
☐ Fluorine _____ actual Wt %

Metals: EP Toxicity Test (MAG/I)

Arsenic (As) NS
Barium (Ba) NS
Cadmium (Cd) NS
Chromium (Cr) NS
Lead (Pb) NS
Mercury (Hg) NS

Selenium (Se) NS
Silver (Ag) NS
Copper (Cu) 50000 ppm
Nickel (Ni) NS
Zinc (Zn) NS

Organics (ppm)

Endrin NS
Lindane NS
Methoxychlor NS
Toxaphene NS
2,4-D NS
2,4,5-TP (Silvex) NS

If material contains the following

compounds, indicate actual ppm: NS
PCB NS
Cyanides NS
Sulfides NS
Dioxin NS

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. MAY 14 1990 For MSP Use Only
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

9002664

Approval Code _____

A. Generator Information

Generator Name U.S. Circuit
Site Address 1526 Sterling Ct
City Escondido State Ca Zip Code 92025
Generator Contact Rick Allenby
Title mgr
Telephone No. (619) 489-1413
Facility EPA ID No. CAD980673347

B. Customer Information

Company Name James Murphy
Contact Dennis Lynch
Address 3840 Reche rd
Fallbrook Ca 92028
Telephone No. (619) 723-5871
For Customer Use _____

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) _____

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>Photo Resist sludge</u>	<u>20</u>	<u>90</u>
<u>Moisture (water)</u>	<u>5</u>	<u>8</u>
<u>Dirt + debris (inert)</u>	<u>6</u>	<u>12</u>
<u>Copper Sulfate</u>	<u>3</u>	<u>5</u>

Common Name of Waste: Waste Photo Resist Film

E. General Characteristics

Color: Amber
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☒ Sludge ☐ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (Est actual Wt %) 7 Water (Wt %) ☐ < 1 ☒ 5-10 ☐ > 10
BTU's per lb (Est actual value) 6000 ☐ 1-5 ☒ 5-10 ☐ > 10
Specific Gravity ☐ < 0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☐ > 1.2
Viscosity (for bulk liquids only) _____ cp
Total Suspended Solids (Wt % for bulk liquids only) ☐ 5-20 ☒ > 20
pH ☐ 2-6 ☒ 6-10 ☐ 10-12.5
Est actual _____ Est actual _____ Est actual _____

Flash Point (closed cup) ☐ < 100°F ☒ > 200°F ☐ 100°-140°F ☐ 140°-200°F actual _____
Sulfur (Wt %) ☒ < 5 ☐ > 5 Est actual value _____
Halogens (Wt %) ☐ < 1 ☐ 1-5 ☐ 5-10 ☐ > 10 Est actual Wt %
☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine actual Wt % _____

Metals: EP Toxicity Test (M/G/L)

Arsenic (As) NS
Barium (Ba) NS
Cadmium (Cd) NS
Chromium (Cr) NS
Lead (Pb) NS
Mercury (Hg) NS

Selenium (Se) NS
Silver (Ag) NS
Copper (Cu) NS 20000ppm
Nickel (Ni) NS
Zinc (Zn) NS

Organics (ppm)

Endrin NS
Lindane NS
Methoxychlor NS
Toxaphene NS
2,4-D NS
2,4,5-TP (Silvex) NS

If material contains the following compounds, indicate actual ppm:

PCB NS
Cyanides NS
Sulfides NS
Dioxin NS

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MATERIAL SAFETY DATA SHEET

PAGE: 01 of 08

HERCULES INCORPORATED
Hercules Plaza
Wilmington, DE 19894
Phone 0: (302) 594-5000 (24 hrs)

AQUA MER* DRY FILM PHOTORESIST

MSDS No.: 813 2413 0000-04

Date: 12/30/88

Supersedes MSDS No.: 813 2413 0000-03

I. PRODUCT IDENTIFICATION

WARNING: MAY CAUSE SKIN AND EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION (SKIN SENSITIZATION).
VAPORS FROM LAMINATION PROCESS MAY CAUSE RESPIRATORY IRRITATION.

RESIN CONTAINS TRACE AMOUNTS OF MICHLER'S KETONE, AN NTP ANIMAL CARCINOGEN.
(See Section V for further information.)

AQUA MER* DRY FILM PHOTORESIST

CHEMICAL & COMMON NAME: Photosensitive thermoplastic acrylic-based polymer -
film laminate

APPEARANCE AND ODOR: Blue/green, laminated film; slightly sweet odor

*Registered Trademark of Hercules Incorporated

PF-
FOOTNOTES

(1)Explanation of acronyms:
HMIS: Hazardous Materials Identification System rating for product as supplied.
AIHA WEEL: American Industrial Hygienists Association - Workplace
Environmental Exposure Level.
OSHA PEL: Occupational Safety and Health Standards Permissible Exposure Limit.
TLV: Registered trademark of American Conference of Governmental Industrial
Hygienists for Threshold Limit Values.
TWA: Time Weighted Average
N/A: Not applicable

DS-
Hercules Incorporated has compiled the information and recommendations
contained in this Material Safety Data Sheet from sources believed to be
reliable and to represent the most reasonable current opinion on the subject
when the MSDS was prepared. No warranty, guaranty or representation is made
as to the correctness or sufficiency of the information. The user of this
product must decide for itself what safety measures are necessary to safely
use this product, either alone or in combination with other products.

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Date: 12/30/88

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II. HAZARDOUS INGREDIENTS & EXPOSURE LIMITS

CHEMICAL & COMMON NAMES (Hazardous materials in uncured resin:)	%	RECOMMENDED AIRBORNE LEVELS(1) OSHA PEL TLV-TWA 1988-89
Michler's Ketone (90-94-8) (Micket)	0.1-0.3	Not established.
4,4'-bis(dimethylamino)benzophenone		
Pentabromochlorocyclohexane (87-84-3) PBCH	1.3-1.5	Not established.(2)
Mono- or multi-functional acrylate/methacrylate monomers.	20-35	Not established.
May contain one or more of the following:(3)		AIHA WEEL 1988
Triethylene glycol dimethacrylate (TRIDMA)	(109-16-0)	1 mg/m3
Tetraethylene glycol diacrylate (TTEGDA)	(17831-71-9)	1 mg/m3
Trimethylolpropane triacrylate (TMDTA)	(15625-89-5)	1 mg/m3
Glycerol propoxytriacylate (GPTA)	(52408-84-1)	Not established.
Dipentaerythritol monohydroxypentacrylate	(60506-81-2)	Not established.
Ethoxylated bisphenol A dimethacrylate	(41637-38-1)	Not established.

(2)A former producer of PBCH has recommended a TLV of 5 mg/m3.

(3) Monomers contained in a specific product are available upon request
(Contact your local Hercules Sales Representative.)

III. TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: Above 300 C (572 F) SOLUBILITY IN WATER: Negligible
VAPOR PRESSURE @ 20 C: Not determined. SPECIFIC GRAVITY: 1.1
VAPOR DENSITY: N/A pH: N/A
VOLATILE (VOL.), %: Negligible at 20 C EVAPORATION RATE: Slower than butyl acetate
FREEZING POINT: Not determined.

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IV. FIRE, EXPLOSION, & REACTIVITY HAZARD DATA

FLASH POINT: Above 150 C (300 F)

FLAMMABLE LIMITS: N/A

AUTOIGNITION TEMPERATURE: Not determined.

EXTINGUISHING MEDIA: Water, dry chemical, foam, carbon dioxide, or halon

SPECIAL FIREFIGHTING PROCEDURES: Use self-contained breathing apparatus.

UNUSUAL FIRE & EXPLOSION HAZARDS: None

STABILITY CONSIDERATIONS: Stable; store below 22 C (72 F).

INCOMPATIBILITY WITH:

Exposure to sunlight or artificial ultraviolet will cause non-hazardous polymerization which renders the material unusable. Open only under yellow safelight.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS PRODUCTS OF COMBUSTION:

As with any organic material, carbon monoxide and carbon dioxide are expected to be found upon combustion. In addition, nitrogen oxides, aromatic and aliphatic aldehydes and other hydrocarbons may be generated.

HAZARDOUS POLYMERIZATION: Will not occur.

V. HEALTH HAZARD DATA

WARNING: MAY CAUSE SKIN AND EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION (SKIN SENSITIZATION).
VAPORS FROM LAMINATION PROCESS MAY CAUSE RESPIRATORY IRRITATION.

RESIN CONTAINS TRACE AMOUNTS OF MICHLER'S KETONE, AN NTP ANIMAL CARCINOGEN.
(See below for further information.)

The health hazards associated with use of this product result from exposure to the uncured acrylate/ methacrylate resin which is held between the polyester and polyethylene sheets, as well as any resin which may be adhered to the inner surface of the top sheet after it is peeled off. While the intact AQUA MER* dry film photoresist should be handled with gloves, hazards associated with its handling are minimal.

Continued...

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V. HEALTH HAZARD DATA

...Continued

SIGNS & SYMPTOMS OF OVEREXPOSURE IN THE WORKPLACE:

EYES: Exposure to uncured resin will cause eye irritation.
SKIN: Prolonged or repeated contact with uncured resin may cause skin irritation and dermatitis or, in susceptible individuals, may cause sensitization (allergic skin reaction).
INHALATION: Inhaling vapors of uncured resin may cause respiratory irritation.
INGESTION: Not determined; ingestion is not an expected route of industrial exposure.

EMERGENCY & FIRST AID PROCEDURES:

EYES: In case of contact, immediately flush with plenty of low-pressure water for 15 minutes. Remove any contact lenses to ensure thorough flushing. Call a physician.

SKIN: Promptly wash with soap and running water. Remove contaminated clothing. Wash clothing before reuse.

INHALATION: Remove to fresh air. Treat any irritation symptomatically. Call a physician.

INGESTION: If conscious, the person should immediately drink large quantities of liquid to dilute this product. NEVER give liquids to an unconscious person. Induce vomiting. Call a physician. NEVER induce vomiting in an unconscious person.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:

Prolonged or repeated contact may cause skin irritation or, in susceptible individuals, sensitization (allergic skin reaction).

PRIMARY ROUTE OF EXPOSURE/ENTRY:

Skin or inhalation of vapors generated during hot lamination processes (vapors are not expected to be generated during storage nor handling at room temperature.)

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V. HEALTH HAZARD DATA

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CANCER INFORMATION:

All but one of the components of this product are NOT listed as carcinogens by the National Toxicology Program (NTP). They are NOT regulated as carcinogens by the Occupational Safety and Health Administration (OSHA) and have NOT been evaluated by the International Agency for Research on Cancer (IARC).

The uncured resin contains trace amounts of Michler's Ketone (Micket). NTP has determined that Micket may reasonably be anticipated to be carcinogenic in humans. NTP based their determination on positive findings in an Ames test for bacterial mutagenicity and on positive National Cancer Institute (NCI) bioassays for carcinogenesis using Fischer 344 rats and B6C3F1 mice. Hercules has further investigated these results and feels that there it was an impurity in NCI's sample which was responsible for the positive findings both in vitro (Ames) and in vivo (animals). (NCI's sample was only 85% pure; in the NCI report of the bioassay, it was noted that the manufacturer has stated that the sample used in the bioassay was not typical of their usual technical-grade product.) Upon isolation by chromatographic methods, this impurity was seen to be quite active in the Ames test. A more purified sample of the component, meeting Hercules specifications and containing only 1/10 as much of the impurity, was correspondingly less active in an Ames assay conducted by Hercules. When samples of the component containing none of the impurity were tested in the Ames assay, no mutagenic activity was noted. It has been reported, though, that non-mutagenic samples of this same material (purified to apparent homogeneity (TLC)) bound to a small degree to cellular DNA (liver) and other macromolecules when administered to male, Fischer 344 rats in vivo. This component of questionable mutagenic capacity has been evaluated by several other laboratories in a collaborative study and found to be mutagenic to bacteria (Ames Test) but not to E. coli. Since both binding to DNA and positive activity in the Ames test are thought to correlate with carcinogenic potential, these results are difficult to interpret.

In a 2-year study, male and female rats were fed PENTABROMOCHLOROCYCLOHEXANE (PBCH) in their diets at levels up to 50 or 70 mg/kg/day, respectively (these doses are roughly equivalent to a 150-pound person eating a spoonful of PBCH right from the container every day for his/her entire lifetime, about 240 lb total.) At the end of the study, animals receiving these high doses showed effects of the treatment that included decreased body weight, increased liver weight, increased levels of total bromine in the tissues, and pathologic changes in the liver, kidneys and large intestine. While the changes in the liver and kidneys were considered to be relatively minor in nature, the changes in the large intestine were classified as oncogenic (carcinogenic). The tumor types encountered were of the same type seen in the untreated control animals, only the incidence (number of animals with tumors) varied: the higher the dose, the more animals that had tumors. At the level of 1 mg/kg/day in either males or females, no toxicologic or carcinogenic effects were seen, thus establishing a tentative no-observable-effect level. Although no detail is available, undocumented references to in vitro studies report that PBCH is not mutagenic.

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V. HEALTH HAZARD DATA

...Continued

REPORTED HUMAN EFFECTS:

Hercules Incorporated has not received any reports of adverse human health effects in workers exposed to this dry film photoresist. Several of the components of the uncured resin are, however, reported to be skin sensitizers and, indeed, there have been several cases of dermatitis reported in workers handling other AQUA MER* dry film photoresist formulations.

REPORTED ANIMAL EFFECTS:

Hercules Incorporated has not conducted any toxicity testing with AQUA MER dry film photoresist products as they are sold.

The acute oral LD50 for PENTABROMOCHLOROCYCLOHEXANE (PBCH) is greater than 2000 mg/kg. In a 29-day feeding study in rats, there was an increase in liver weight at 1000 mg/kg and a similar tendency towards increased liver weight noted at 100 or 300 mg/kg; 30 mg/kg was a no-adverse-effect level in this study. In a similar study in which rats were fed PBCH at 0 or 600 mg/kg for 13 weeks, this same effect on liver weight was noted along with an increase in kidney weight. Body weight and food consumption were also increased in male rats that received the test material. In this 13-week study there were treatment-related histologic (microscopically-observed) changes in the liver which were mild and expected to be totally reversible upon withdrawal of the test material. Total bromine content of the liver, fat and kidney tissue were significantly increased in the group receiving test material.

A good deal of of the published (and previously unpublished) data on the toxicity of MULTIFUNCTIONAL ACRYLATE AND METHACRYLATE MONOMERS have recently been reviewed (see: Andrews and Clary (1986) J. Toxicol. Environ. Health 19:149-164). From these data, it may be seen that, as a class, these esters should be considered to be eye and skin irritants, as well as potential skin sensitizers, but that they present little to no acute oral or dermal toxicity hazard. In vitro testing of these esters has been inconclusive in that both the multifunctional acrylates and methacrylates (as well as the simple acrylates and methacrylates) have uniformly been negative in the Ames test, yet positive in the mouse lymphoma test. None were positive in teratogenic tests at doses which were non-toxic to the mother (terata (birth defects) at maternally-toxic doses are generally thought to be artifacts of stress on the mother rather than indicative of true hazards). Chronic dermal assays of any methacrylate ester have produced no systemic toxicity or systemic or in situ tumors.

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VI. SPILL PROCEDURES & WASTE DISPOSAL

SPILL PROCEDURES:

If material is not contaminated, place in clean containers for use. If contaminated, place in containers for disposal.

WASTE DISPOSAL METHOD:

Incineration of combustible waste is the preferred disposal method. Landfilling of the cured laminates in a licensed facility in accordance with federal, state and local regulations is a satisfactory alternative.

VII. APPLICABLE CONTROL MEASURES

APPROPRIATE HYGIENIC PRACTICES:

Do not allow eye or skin contact.
Avoid breathing vapor.
Wash thoroughly after handling, and before eating, drinking or smoking.
Remove contaminated clothing promptly and clean thoroughly before reuse.
Discard contaminated shoes and other leather articles.

PERSONAL PROTECTIVE EQUIPMENT:

Safety glasses
Impervious gloves
Appropriate protective clothing

WORK PRACTICES:

Eyewash fountains and safety showers should be easily accessible.
Handle in areas with adequate ventilation. Use respirator in accordance with OSHA Subpart I (29 CFR 1910.134) if vapor levels are excessive.

HANDLING AND STORAGE PRECAUTIONS:

Keep containers closed.
Store only in a cool, dry place.
Material is photosensitive. Open only under yellow safelight.
Avoid exposure to sunlight or artificial ultraviolet light.

ENGINEERING CONTROLS:

Provide adequate ventilation.

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE:

Completely isolate and thoroughly clean all equipment, piping or vessels before beginning maintenance or repairs.
Keep area clean. Product will burn.

Doc. No. 5100s

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VIII. ENVIRONMENTAL REGULATORY DATA

This product does contain a chemical that may be subject to a Federal Environmental Protection Agency regulatory reporting requirement under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the RCRA hazardous waste management regulations, or SARA Title III Emergency Planning and Community Right-to-Know Act of 1986. The following environmental data are provided to assist users of this product in defining their regulatory environmental compliance obligations. It is the user's responsibility to determine his/her compliance obligations under these and other federal or state statutes.

A. PRODUCT COMPOSITION

PRODUCT (P) or COMPONENT NO.	TRADE NAME or CHEMICAL COMPONENT	CAS NUMBER	PERCENT
P 1	PRODUCT Michler's ketone	90-94-8	0.1 to 0.3

B. SARA TITLE III

SEC 313 - 40 CFR 372 Toxic Chemical Release Reporting Requirements

This product contains a toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 Toxic Chemical Reporting requirements.

COMPONENT NO.

1

C. CERCLA (40 CFR 302.4 HAZARDOUS SUBSTANCE & REPORTABLE QUANTITIES)

This product does not contain any hazardous substances listed in 40 CFR 302.4.

D. RCRA INFORMATION

This product is not listed in federal hazardous waste regulation 40 CFR 261.33, paragraph (e) or (f) - i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261, Subpart C. State or local hazardous waste regulations may apply if they are different from the federal regulation.

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 016517

Form Approved OMB No. 2050-0039 Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. A12P10101010161311181513101910	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address DRUG ENFORCEMENT ADMIN. 3010 N 2ND STREET PHOENIX AZ 85012		4. Generator's Phone (602) 640-8700	5. SITE: 1917 W Monroe Dhx Ave	
5. Transporter 1 Company Name DISPOSAL CONTROL SERVICE INC		6. US EPA ID Number A12D19111671514312	7. Transporter 2 Company Name	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA1D981057706	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. RA. HAZARDOUS WASTE SOLID, N.O.S. ORM-E NA 9189		0191 D F O 100 09 Y		
b. WASTE FLAMMABLE SOLID N.O.S. (unif) UN 1325 (DOO)		01012 D F O 100 014 Y		
c.				
d.				
15. Additional Descriptions for Materials Listed Above a. APPROVAL # DCSP/DPHO/9003154-DFOR Drum # 5 b. APPROVAL # DCSP/DPHO/9003153-DFOR Drums # 3, 4		K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT IF UNABLE TO DELIVER, RETURN TO GENERATOR				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.				
Printed/Typed Name ALAN H. Wynn		Signature Alan H. Wynn		Month Day Year 10/7/1990
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name PAUL W. EBERSOLE		Signature Paul W. Ebersole		Month Day Year 10/7/1990
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Dan Cramer				

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

JUN 07 1990

For MSP Use Only

9003153

Approval Code

A. Generator Information

Generator Name DRUG ENFORCEMENT ADMIN
Site Address 3010 N 2ND STREET
City PHOENIX State AZ Zip Code 85012
Generator Contact KEVIN CARVER / ALAN WINN
Title AGENT
Telephone No. (602) 640-5700
Facility EPA I.D. No. AZP000006318

B. Customer Information

Company Name DISPOSAL CONTROL SERVICE INC.
Contact CYNTHIA CLOWES
Address 888 WILLINI
PHOENIX AZ 85041
Telephone No. (602) 268-0999
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated

EPA Waste Code(s) U117 D001

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

SOIL
ETHER
MAGNESIUM TURNINGS

MIN	MAX
<u>75</u>	<u>80</u>
<u>10</u>	<u>15</u>
<u>0</u>	<u>5</u>

Common Name of Waste:

CONTAMINATED SOIL / ETHER / MAGNESIUM TURNINGS

E. General Characteristics

Color: BROWN
Odor: ☐ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y ☐ N ☒	Polymerizable?	Y ☐ N ☒
Infectious?	Y ☐ N ☒	Pyrophoric?	Y ☐ N ☒
Water Reactive?	Y ☐ N ☒	Explosive?	Y ☐ N ☒

G. Physical/Chemical Properties

Ash (list actual Wt %) 60-80
Water (Wt %) ☐ <1 ☐ 5-10 ☐ 1-5 ☐ >10
BTU's per lb (list actual value) <5000
list actual

Specific Gravity
☐ <0.8 ☐ 1.2-1.4
☐ 0.8-1.0 ☐ 1.4-1.7
☐ 1.0-1.2 ☐ >1.7
list actual

Viscosity
(for bulk liquids only)
list actual in centipoise
cp

Total
Suspended Solids
(Wt % for bulk liquids only)
☐ 5-20 ☐ >20
list actual

pH SOLID NEUTRAL
☐ 2-6 ☐ 6-10
☐ 10-12.5
if <2 or >12.5
list actual

Flash Point (closed cup)

☐ <100°F ☐ >200°F
☒ 100°-140°F ☐ actual
☐ 140°-200°F

Sulfur (Wt %)

☐ <5
if >5 list actual value

Halogens (Wt %)
☐ <1 ☐ 1-5 ☐ 5-10
☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine
actual Wt %

if >10 list actual Wt %

Metals: EP Toxicity Test (MG/L)

Arsenic (As) <5
Barium (Ba) <100
Cadmium (Cd) <1
Chromium (Cr) <5
Lead (Pb) <5
Mercury (Hg) <0.2

Selenium (Se) <1
Silver (Ag) <5
Copper (Cu) 0
Nickel (Ni) 0
Zinc (Zn) 0

Organics (ppm)

Endrin NONE
Lindane NONE
Methoxychlor NONE
Toxaphene NONE
2,4-D NONE
2,4,5-TP (Silvex) NONE

If material contains the following
compounds, indicate actual ppm:

PCB NONE
Cyanides NONE
Sulfides NONE
Dioxin NONE

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

9003154

JUN 07 1990

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A. Generator Information

Generator Name DRUG ENFORCEMENT ADMIN
Site Address 3010 N 2ND STREET
City PHOENIX State AZ Zip Code 85012
Generator Contact KEVIN CARVER / ALAN WINN
Title AGENT
Telephone No. (602) 640-5700
Facility EPA I.D. No. AZ P000006318

B. Customer Information

Company Name DISPOSAL CONTROL SERVICE
Contact CYNTHIA CLOWES
Address 888 WILLINI
PHOENIX AZ 85041
Telephone No. (602) 268-0999
For Customer Use

C. Regulatory Information

☒ RCRA Regulated

☐ Land Ban

☒ Non-Regulated

EPA Waste Code(s) NONE

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

CONTAMINATED DEBRIS TO INCLUDE:
EMPTY ETHER CANS WITH 41% RESIDUE
BROKEN BEAKERS TYVEK SUITS VERMICULITE

MIN

MAX

100

Common Name of Waste:

ETHER CONTAMINATED DEBRIS

E. General Characteristics

Color:

Odor: ☐ None ☐ Mild ☐ Strong

☐ Liquid ☐ Sludge ☒ Solid ☐ Powder

Phases: ☐ Single Layer ☐ Double Layer ☒ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? Y ☐ N ☒ Polymerizable? Y ☐ N ☒

Infectious? Y ☐ N ☒ Pyrophoric? Y ☐ N ☒

Water Reactive? Y ☐ N ☒ Explosive? Y ☐ N ☒

G. Physical/Chemical Properties

Ash (first actual Wt %)

Water (Wt %)

Specific Gravity

Viscosity

Total Suspended Solids

NEUTRAL SOLID

10-20

☐ <1 ☐ 5-10

☐ <0.8 ☐ 1.2-1.4

(for bulk liquids only)

(Wt % for bulk liquids only)

☐ 2-6 ☐ 6-10

BTUs per lb

☐ 1-5 ☐ >10

☐ 0.8-1.0 ☐ 1.4-1.7

list actual in centipoise

☐ 5-20

☐ 10-125

(first actual value)

list actual

☐ 1.0-1.2 ☐ >1.7

list actual

if > 20

list actual

<5000

list actual

list actual

cp

list actual

list actual

Flash Point (closed cup)

Sulfur (Wt %)

Halogens (Wt %)

if > 10 list actual Wt %

☐ <100°F ☒ >200°F

☐ <5

☐ Iodine

☐ >10 list actual Wt %

☐ 100°-140°F ☐ actual

if > 5 list actual value

☐ Bromine

☐ >10 list actual Wt %

☐ 140°-200°F

actual

☐ Chlorine

☐ >10 list actual Wt %

☐ Fluorine

☐ >10 list actual Wt %

actual Wt %

Metals: EP Toxicity Test (mg/l)

Selenium (Se)

Organics (ppm)

if material contains the following

Arsenic (As)

Silver (Ag)

Endrin

compounds, indicate actual ppm:

Barium (Ba)

Copper (Cu)

Methoxychlor

PCB

Cadmium (Cd)

Nickel (Ni)

Toxaphene

Cyanides

Chromium (Cr)

Zinc (Zn)

2,4-D

Sulfides

Lead (Pb)

2,4,5-TP (Silvex)

Dioxin

Mercury (Hg)

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MANIFEST N° 015543

Form Approved OMB No. 2050-0039. Expires 8-30-91

FPA Form 4300-22 (Rev. 9-81) WHITE DEO GREEN - Generator YELLOW - ISOLTS BLK - Transformer 2 BLK - 1 Transformer 1 GOLD - Generator DIESEL ENGINE 1 IP 9-81

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. MAY 14 1990 For MSP Use Only
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310 9002651 Approval Code

Approval Code _____

A. Generator Information

Generator Name DRUG ENFORCEMENT ADMIN
Site Address 3010 N 2ND ST, SUITE 301
City PHOENIX State AZ Zip Code 85012
Generator Contact MR. BOB KIRCHER | MR.
Title AGENT
Telephone No. (602) 640-5700
Facility EPA ID No. AZP000006334

B: Customer Information

Company Name DISPOSAL CONTROL SERVICE INC
Contact CYNTHIA CLOWES
Address 888 W ILLINOI
PHOENIX AZ 85041
Telephone No. 602 269-0999
For Customer Use _____

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) SEE ATTACHED INVENTORY

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

LAB PACK	WAT	100%

Common Name of Waste: LAB PACK

E. General Characteristics

Color:			
Odor:	☐ None	☐ Mild	☐ Strong
	☐ Liquid	☐ Sludge	☐ Solid
Phases:	☐ Single Layer	☐ Double Layer	☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y	N	Polymerizable?	Y	N
Infectious?	Y	N	Pyrophoric?	Y	N
Water Reactive?	Y	N	Explosive?	Y	N

G. Physical/Chemical Properties

Ash (first actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity (for bulk liquids only)	Suspended Solids (Wt % for bulk liquids only)	pH
	☐ <1 ☐ 5-10	☐ <0.8 ☐ 1.2-1.4	list actual in centipoise	☐ 5-20	☐ 2-6 ☐ 6-10
BTU's per lb (list actual value)	☐ 1-5 if > 10	☐ 0.8-1.0 ☐ 1.4-1.7		☐ 20-50	☐ 10-12.5
		☐ 1.0-1.2 ☐ > 1.7		if ≤ 20	if < 2 or > 12.5
	list actual	list actual	list actual	list actual	list actual

Flash Point (closed cup)	Sulfur (Wt %)	Halogens (Wt %)	<1	1-5	5-10	if > 10 list actual Wt %
☐ < 100°F ☐ > 200°F	☐ < 5	☐ Iodine	☐	☐	☐	_____
☐ 100°-140°F ☐ _____°F	if > 5 list actual value _____	☐ Bromine	☐	☐	☐	_____
☐ 140°-200°F ☐ _____°F		☐ Chlorine	☐	☐	☐	_____
		☐ Fluorine		actual	Wt %	_____

Metals: EP Toxicity Test (MG/L)		Organics (ppm)	
Arsenic (As) _____	Selenium (Se) _____	Endrin _____	If material contains the following compounds, indicate actual ppm: PCB _____ Cyanides _____ Sulfides _____ Dioxin _____
Barium (Ba) _____	Silver (Ag) _____	Lindane _____	
Cadmium (Cd) _____	Copper (Cu) _____	Methoxychlor _____	
Chromium (Cr) _____	Nickel (Ni) _____	Toxaphene _____	
Lead (Pb) _____	Zinc (Zn) _____	2,4-D _____	
Mercury (Hg) _____		2,4,5 TP (Silvex) _____	

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DISPOSAL CONTROL SERVICE, INC.

888 W. ILINI STREET, PHOENIX, ARIZONA 85041
(602) 268-0999 WATTS (800) 433-4981 (AZ Only)

Date: 5-02-90

I am an authorized employee of Disposal Control Service, Inc., the company preparing the Lab Packs for DRUG ENFORCEMENT ADMIN. I hereby certify that the Lab Packs represented by this Material Characterization Data Sheet and Lab Pack Packing Lists are prepared and shipped in full compliance with the Marine Shale Processors, Inc. Lab Pack Guidelines.

Respectfully,

Don Lopez
Disposal Control Service, Inc.

Re: LAB PACKS

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DRUM # 2	MANIFEST # 04190	PROFILE #
DOT PROPER SHIPPING NAME: Waste Sodium Cyanide		HAZARD CLASS: Poison B
EPA WASTE CODE: P106	NAME OF PACKAGER: S.O.	CONTAINER TYPE: 5 gal poly

WASTE IDENTIFICATION			CONTAINERS		OTHER INFORMATION
CHEMICAL NAME	EPA WASTE CODE		SIZE	TYPE	
1 Sodium Cyanide	P106	8	3 P	P	Powdery, chunks
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
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FORM # 5	MANIFEST # 04190	PROFILE # MSP
NET PROPER SHIPPING NAME: WASTE SODIUM CYANIDE		HAZARD CLASS: POISON B UN/NA 1689
EPA WASTE CODE: P106	NAME OF PACKAGER: S.O.	CONTAINER TYPE: 14-GAL POLY

WASTE IDENTIFICATION			CONTAINERS		OTHER INFORMATION
CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1 SODIUM CYANIDE	P106	1	20 lb	P	CHUNKS OF CYANIDE
2					
3					
4					
5					
6					
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FORM # 3	MANIFEST # 04/90	PROFILE # MSP
OT PROPER SHIPPING NAME: Hazardous waste solid, NOS		HAZARD CLASS: ORM-E
PA WASTE CODE: N/A	NAME OF PACKAGER: 8.0	CONTAINER TYPE: 55 gal metal poly

WASTE IDENTIFICATION			CONTAINERS		OTHER INFORMATION
CHEMICAL NAME	EPA WASTE CODE		SIZE	TYPE	
1 Carboard,					Contaminated with ether
2 plastic cooler,					
3 plastic wrappings					
4					
5					
6					
7					
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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST No 015902

Form Approved, OMB No. 2050-0036, Expires 6-30-81

see print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. <u>A12P1010100632N15121912</u>		Manifest Document No. <u>1</u>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <u>DRUG ENFORCEMENT ADMIN</u> <u>3010 N 2ND St Suite 301</u> <u>Phoenix Az 85012</u>				4. Generator's Phone <u>(602) 640-5700</u>		5. SITE: <u>ASHFORK</u>			
5. Transporter 1 Company Name <u>DISPOSAL CONTROL SERVICE INC</u>				6. US EPA ID Number <u>A12D1010100632N15121912</u>		7. State Transporter's ID No. <u>113125</u>			
7. Transporter 2 Company Name				8. US EPA ID Number		8. Transporter's Phone <u>(602) 268-0999</u>			
9. Designated Facility Name and Site Address <u>MARINE SHALE PROCESSORS, INC.</u> <u>HIGHWAY 90 EAST</u> <u>MORGAN CITY, LOUISIANA 70380</u>				10. US EPA ID Number <u>LAD981057706</u>		9. State Facility's ID No. <u>113125</u>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) <u>HAZARDOUS WASTE SOLID N.O.S. (U117)</u> <u>ORM-E NA 9189</u>				12. Containers No. <u>1013</u> Type <u>DIF</u>		13. Total Quantity <u>400.45</u>		14. Unit <u>Y</u>	
15. Additional Descriptions for Materials Listed Above <u>RECYCLE / REUSE</u>				16. Handling Codes for Wastes Listed Above		17. Waste No. <u>U117</u>			
18. Special Handling Instructions and Additional Information <u>WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT</u> <u>IF UNABLE TO DELIVER, RETURN TO GENERATOR</u>				19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name <u>GINA TASSETT</u> Signature <u>Gina Tasset</u> Month Day Year <u>01/16/2019</u>				21. Facility's Phone <u>(504) 631-3161</u>					

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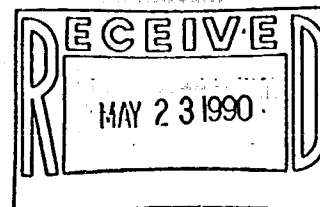
MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

MAY 29 1990
9002934

For MSP Use Only

Approval Code _____



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being filmed

A. Generator Information

Generator Name DRUG ENFORCEMENT ADMIN
Site Address 3010 N 2ND ST, SUITE 301
City PHOENIX State AZ Zip Code 85012
Generator Contact BOB KIRCHER / ALAN H. WINN
Title AGENT
Telephone No. (602) 640-5700
Facility EPA I.D. No. AZP000006324

B. Customer Information

Company Name DISPOSAL CONTROL SERVICE
Contact CYNTHIA CLOWES
Address 888 WILLIAMS
PHOENIX AZ 85041
Telephone No. (602) 268-0999
For Customer Use _____

C. Regulatory Information

☒ RCRA Regulated☐ Land Ban☐ Non-RegulatedEPA Waste Code(s) U117

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

ETHER CONTAMINATED DEBRIS TO INCLUDE:
CARDBOARD; PLASTIC COOLER; PLASTIC WRAPPINGS

MIN

MAX

100%Common Name of Waste: DRUM #3 - ETHER CONTAMINATED DEBRIS

E. General Characteristics

Color: _____

Odor: ☐ None ☐ Mild ☐ Strong☐ Liquid ☐ Sludge ☒ Solid ☐ PowderPhases: ☐ Single Layer ☐ Double Layer ☒ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? Y ☒ N ☐ Polymerizable? Y ☐ N ☒Infectious? Y ☒ N ☐ Pyrophoric? Y ☐ N ☒Water Reactive? Y ☒ N ☐ Explosive? Y ☐ N ☒

G. Physical/Chemical Properties

Ash (list actual Wt %)

<10

Water (Wt %)

☐ <1 ☐ 5-10☐ 1-5 ☒ if > 10

BTU's per lb

(list actual value)

<5000

list actual

Specific Gravity

☐ <0.8 ☐ 1.2-1.4☐ 0.8-1.0 ☐ 1.4-1.7☐ 1.0-1.2 ☐ > 1.7

list actual

Viscosity

(for bulk liquids only)

list actual in centipoise

cp

Total
Suspended Solids

(Wt % for bulk liquids only)

☐ 5-20

if > 20

list actual

pH

NEUTRALSOLID☐ 2-6 ☐ 6-10☐ 10-12.5

if < 2 or > 12.5

list actual

Flash Point (closed cup)

☐ < 100°F☐ 100°-140°F☐ 140°-200°F

if > 200°F

actual

actual

Sulfur (Wt %)

☐ < 5

if > 5 list actual value

Halogens (Wt %)

☐ Iodine☐ Bromine☐ Chlorine☐ Fluorine

Organics (ppm)

Endrin

Lindane

Methoxychlor

Toxaphene

2,4-D

2,4,5-TP (Silvex)

Metals: EP Toxicity Test (MG/L)

Arsenic (As)

<5

Barium (Ba)

<100

Cadmium (Cd)

<1

Chromium (Cr)

<5

Lead (Pb)

<5

Mercury (Hg)

<0.2

Selenium (Se)

<1

Silver (Ag)

<5

Copper (Cu)

0

Nickel (Ni)

0

Zinc (Zn)

0

If material contains the following

compounds, indicate actual ppm

PCB

Cyanides

Sulfides

Dioxin

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RECYCLE / REUSE
MANIFEST 010447

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Pre-lease print or type. (Form designed for use on 60 lb (12-pitch) typewriter.) Form Approved, OMB No. 2050-0038, Expires 9-30-81

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. A12P10000016324010149 Manifest Document No. 1 2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Drug Enforcement Admin
3010 N 2nd St Suite 301
Phoenix AZ 85012
 4. Generator's Phone (602) 640-5700 Site - **Ashfork**

5. Transporter 1 Company Name Disposal Control Service Inc. 6. US EPA ID Number A12P101114715432

7. Transporter 2 Company Name _____ 8. US EPA ID Number _____

9. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380
 10. US EPA ID Number LAD1881057706

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)
"RQ. HAZARDOUS WASTE SOLID, N.O.S."
ORM E NA 9189

12. Containers
 No. 0250 Type M 13. Total Quantity 000.15 14. Unit Y

15. Additional Descriptions for Materials Listed Above
RECYCLE/REUSE
DCSP/DENR/4005-1111 DFC
9100-1-11

16. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT
IF UNABLE TO DELIVER, RETURN TO GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name ALAN H. WINN Signature Alan H. Winn Month Day Year 01 16 22 90

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name Don Wetzel Signature Paul W. Erbersold Month Day Year 01 16 22 90

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month Day Year _____

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
 Printed/Typed Name GINA BASSETT Signature Gina Bassett Month Day Year 01 06 26 90



MATERIALS CHARACTERIZATION DATA SHEET

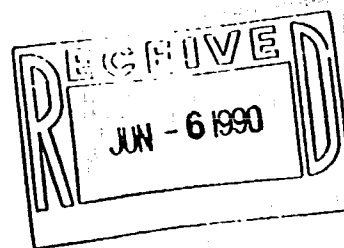
MARINE SHALE PROCESSORS, INC. JUN 11 1990
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

9003229

For MSP Use Only

Approval Code

DEA ASHFORK



A. Generator Information

Generator Name DRUG ENFORCEMENT ADMIN
Site Address 3010 N 2ND ST, SUITE 301
City PHOENIX State AZ Zip Code 85012
Generator Contact BOBKIRCHER / ALAN H. WINN
Title AGENT
Telephone No. (602) 640-5700
Facility EPA ID No. AZP000006324

B. Customer Information

Company Name DISPOSAL CONTROL SERVICE
Contact CYNTHIA CLOWES
Address 888 W ILLINOI
PHOENIX AZ 85041
Telephone No. (602) 268-0999
For Customer Use

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non-Regulated EPA Waste Code(s)

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

BURNED CRUSHED DRUMS ONCE MIN MAX
CONTAINING ETHER 100

Common Name of Waste: EMPTY CRUSHED DRUMS

E. General Characteristics

Color:
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases ☐ Single Layer ☐ Double Layer ☒ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? Y N Polymerizable? Y ☒ N
Infectious? Y N Pyrophoric? Y ☒ N
Water Reactive? Y N Explosive? Y ☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %) 80-90 Water (Wt %) ☐ <1 ☐ 5-10 Specific Gravity ☐ <0.8 ☐ 1.2-1.4
BTUs per lb ☐ 1-5 if > 10 ☐ 0.8-1.0 ☐ 1.4-1.7
(list actual value) 25000 list actual ☐ 1.0-1.2 ☐ > 1.7
Viscosity (for bulk liquids only) Total Suspended Solids (Wt % for bulk liquids only) pH
list actual in centipoise ☐ 5-20 ☐ 10-12.5
cp list actual if > 20 if < 2 or > 12.5

Flash Point (closed cup)

☐ < 100°F ☒ > 200°F
☐ 100°-140°F ☐ actual °F
☐ 140°-200°F

Sulfur (Wt %)

☐ < 5
if > 5 list actual value

Halogens (Wt %)

< 1 5-10
☐ Iodine ☐
☐ Bromine ☐
☐ Chlorine ☐
☐ Fluorine actual Wt %

if > 10 list actual Wt %

Metals: EP Toxicity Test (MG/L)

Arsenic (As) < 5
Barium (Ba) < 100
Cadmium (Cd) < 1
Chromium (Cr) < 5
Lead (Pb) < 5
Mercury (Hg) < 0.2

Selenium (Se) < 1
Silver (Ag) < 5
Copper (Cu) 0
Nickel (Ni) 0
Zinc (Zn) 0

Organics (ppm)

Endrin
Lindane
Methoxychlor NONE
Toxaphene
2,4-D
2,4,5-TF (Silvex)

if material contains the following compounds, indicate actual ppm:
PCB
Cyanides NONE
Sulfides
Dioxin

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO 913502

Print or type (Form designed for use on 112-pitch typewriter.)

Form Approved, OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>AZ1P1010P9030187577470</u>	2. Page 1 of 1	Information in the shaded area is not required by Federal law.
3. Generator's Name and Mailing Address <u>Drug Enforcement Admin</u> <u>3010 N 1st Suite 301</u> <u>Phoenix AZ</u>		4. Generator's Phone <u>(602) 640-5700</u>	5. Transporter 1 Company Name <u>Disposal Control Service Inc</u>	6. US EPA ID Number <u>1A121019111671514312</u>
7. Designated Facility Name and Site Address <u>MARINE SHALE PROCESSORS, INC.</u> <u>HIGHWAY 90 EAST</u> <u>MORGAN CITY, LOUISIANA 70380</u>		8. US EPA ID Number <u>LA1D981057706</u>	9. State Facility's ID No. <u>(504) 6311316</u>	10. State Facility's Phone <u>(504) 6311316</u>
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. Waste Flammable Solid, N.O.S. (0001) Flammable Solid UN 1325		No. 01011	Type D/F	01010209
b. Waste Corrosive Solid, N.O.S. (0002) Corrosive Material UN 1759		No. 01011	Type D/F	01010154
c.				
d.				
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above		
a. Approval: <u>DCSP/DRUG/9002653-LP</u>		b. Approval: <u>DCSP/DRUG/9002653-LP</u>		
c. Approval: <u>DCSP/DRUG/9002653-LP</u>		d. Approval: <u>DCSP/DRUG/9002653-LP</u>		
15. Special Handling Instructions and Additional Information <u>Site - 5116 N 86th Place</u>		16. Generator's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. <u>WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT</u> <u>IF UNABLE TO DELIVER, RETURN TO GENERATOR</u>		
17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name <u>CHRIS R JACOBSEN</u>		Printed/Typed Name <u>PAUL W Ebersole</u>		
Signature <u>ON BEHALF OF DEA</u>		Signature <u>Paul W Ebersole</u>		
Month Day Year <u>10/6/21/90</u>		Month Day Year <u>10/6/21/90</u>		
19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		
Printed/Typed Name <u>GINA RUSSELL</u>		Printed/Typed Name <u>Shirley Bander</u>		
Signature <u>Gina Russell</u>		Signature <u>Shirley Bander</u>		
Month Day Year <u>10/6/21/90</u>		Month Day Year <u>10/6/21/90</u>		

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10880



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. MAY 14 1990

110 James Drive West, Suite 120

St. Rose, LA 70087

504-465-3310

Attn: Barbara Fonseca

9002663

For MSP Use Only

Approval Code

A. Generator Information

Generator Name Federal Paper Board Co. Inc.

Site Address 125 Wolcott Avenue

City Beacon State ny Zip Code 12508

Generator Contact Bob Carroll

Title MANAGER WILLYER ROTATION

Telephone No. (914) 831-5100

Facility EPA ID No. NY0149776130

B. Customer Information

Company Name GSX / Laidlaw

Contact Brenda Leonardo

Address 221 Sutton St

N. Andover, MA 01845

Telephone No. (508) 683-1002

For Customer Use

C. Regulatory Information

☐ RCRA Regulated

☐ Land Ban

☒ Non-Regulated

EPA Waste Code(s)

None

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

MIN

MAX

Offset Ink Base (Linseed Oil, Rosin Ester, Pet. Distillates)

Virgin obsolete inventory

Common Name of Waste: Ink Offset

E. General Characteristics

Color: Varies

Odor: ☒ None ☐ Mild ☐ Strong

☒ Liquid ☐ Sludge ☐ Solid ☐ Powder

Phases ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐

Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐

Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %)

4.10

Water (Wt %)

☐ <1 ☐ 5-10

☒ 1-5 ☐ >10

BTUs per lb

(list actual value)

~6000

list actual

Specific Gravity

☐ <0.8 ☐ 1.2-1.4

☐ 0.8-1.0 ☐ 1.4-1.7

☒ 1.0-1.2 ☐ >1.7

list actual

Viscosity

(for bulk liquids only)

list actual in centipoise

cp

Total

Suspended Solids

(Wt % for bulk liquids only)

☐ 5-20

☐ if > 20

list actual

pH

☐ 2-6 ☒ 6-10

☐ 10-12.5

☐ if < 2 or > 12.5

list actual

Flash Point (closed cup)

☐ <100°F ☒ >200°F

☐ 100°-140°F ☐ actual

☐ 140°-200°F

Sulfur (Wt %)

☒ <5

☐ if > 5 list actual value

Halogens (Wt %)

☒ Iodine

☒ Bromine

☒ Chlorine

☐ Fluorine

<1

1-5

5-10

if > 10 list actual Wt %

Metals: EP Toxicity Test (MG/L)

Arsenic (As)

☐

Barium (Ba)

☐

Cadmium (Cd)

☐

Chromium (Cr)

☐

Lead (Pb)

☐

Mercury (Hg)

☐

Selenium (Se)

☐

Silver (Ag)

☐

Copper (Cu)

☐

Nickel (Ni)

☐

Zinc (Zn)

☐

Organics (ppm)

Endrin

☐

Lindane

☐

Methoxychlor

☐

Toxaphene

☐

2,4-D

☐

2,4,5-TP (Silvex)

☐

If material contains the following compounds, indicate actual ppm:

PCB

☐

Cyanides

☐

Sulfides

☐

Dioxin

☐

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11837

MATERIAL SAFETY DATA SHEET

SUPERIOR PRINTING INK CO., INC.
70 BETHUNE STREET
NEW YORK, NEW YORK 10014

INFORMATION PHONE: (212) 741-3600
EMERGENCY PHONE: (212) 741-3600
DATE PREPARED: January 5, 1988
HMIS: H1 F1 R0

SECTION I

PRODUCT CLASS: Yellow offset ink base
TRADE NAME:
PRODUCT NUMBER: 7246-12QB

SECTION II - HAZARDOUS COMPONENTS

component	CAS#	wt. %	OSHA PEL	ACGIH TLV	other
-----------	------	-------	----------	-----------	-------

This product is not considered hazardous under the OSHA Hazard Communication Standard, 29CFR 1910.1200.

→ 25% Pet. Distillate
Linseed Oil
Rosin Ester

SECTION III - PHYSICAL DATA

BOILING RANGE (°F) 520 - 578	VAPOR DENSITY: vs. air	HEAVIER ☒ LIGHTER ☐	TYPE OF ODOR Oily
APPEARANCE: Yellow paste	EVAPORATION RATE vs. Butyl Acetate	FASTER ☐ SLOWER ☒	%Volatiles, wt: 28
SOLUBILITY IN WATER: None	LIQUID DENSITY: vs. water	HEAVIER ☒ LIGHTER ☐	

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION
OSHA: CLASS III B DOT: Not regulated
FLASH PT. (°F) 250
(Method used): SETA C.C. LEL: No Data

EXTINGUISHING MEDIA: Use fog, foam, CO2, or dry chemical

UNUSUAL FIRE AND EXPLOSION HAZARDS: Dense smoke may be generated when burning.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Water spray may be used to cool closed containers to prevent pressure build-up and possible auto-ignition when exposed to extreme heat. When water is used, fog nozzles are preferable.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

Because of the defatting property in certain ingredients, skin contact may result in dryness and/or irritation and dermatitis may develop with prolonged exposure. Eye irritation is also possible.

MEDICAL CONDITION PRONE TO AGGRAVATION BY EXPOSURE

expected that skin contact may aggravate an existing dermatitis.

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FEDERAL

FEDERAL PAPER BOARD COMPANY, INC.

CARTON DIVISION

125 WOLCOTT AVENUE, BEACON, NEW YORK 12508

AREA CODE (514) 831-5100

5/18/90

MSPI

110 James Drive West, Suite 120

St. Rose, LA 70087

Attn: Barbara Fonseca

b

R2: Profile 9002663

Please amend section D Chemical Composition to read

→ Off-Set Ink Base

Linseed Oil

Resin Ester

Petroleum Distillates

Inert Non Hazardous fillers

≈ 25% - 40%

60% - 75%

Thank You,
Bob Carroll
Bob Carroll

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

9002653

For MSP Use Only

Approval Code

A. Generator Information

Generator Name DRUG ENFORCEMENT ADMIN
Site Address 3010 N 2nd St SUITE 301
City PHOENIX State AZ Zip Code 85012
Generator Contact CHRIS JACOBSON
Title AGENT
Telephone No. (602) 640-5700
Facility EPA ID No. AZP000003087

B. Customer Information

Company Name DISPOSAL CONTROL SERVICE
Contact CYNTHIA CLOWES
Address 888 W ILLINOIS
PHOENIX AZ 85041
Telephone No. (602) 268-0999
For Customer Use

C. Regulatory Information

☒ RCRA Regulated

☐ Land Ban

☐ Non-Regulated

EPA Waste Code(s) (SEE INVENTORY SHEETS)

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

LAB PACKS (SEE ATTACHED INVENTORY SHEETS)

MIN

MAX

Common Name of Waste: LAB PACKS

E. General Characteristics

Color:

Odor: ☐ None ☐ Mild ☐ Strong

☐ Liquid ☐ Sludge ☐ Solid ☐ Powder

Phases: ☐ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? Y N Polymerizable? Y N

Infectious? Y N Pyrophoric? Y N

Water Reactive? Y N Explosive? Y N

G. Physical/Chemical Properties

Ash (list actual wt %)

Water (wt %)

Specific Gravity

Viscosity

Total Suspended Solids

pH

BTU's per lb

(list actual value)

☐ < 1 ☐ 5-10

☐ < 0.8 ☐ 1.2-1.4

(for bulk liquids only)

(wt % for bulk liquids only)

☐ 2-6 ☐ 6-10 ☐ 10-12.5

☐ 1-5 ☐ > 10

☐ 0.8-1.0 ☐ 1.4-1.7

list actual in centipoise

☐ 5-20 ☐ > 20

☐ < 2 or > 12.5

list actual

list actual

cp

list actual

list actual

Flash Point (closed cup)

Sulfur (wt %)

Halogens (wt %)

☐ < 100°F ☐ > 200°F

☐ < 5 ☐ > 5 list actual value

☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine

☐ 100°-140°F ☐ actual

actual

actual wt %

☐ 140°-200°F

Metals: EP Toxicity Test (MG/L)

Arsenic (As)

Selenium (Se)

Organics (ppm)

Barium (Ba)

Silver (Ag)

Endrin

Cadmium (Cd)

Copper (Cu)

Lindane

Chromium (Cr)

Nickel (Ni)

Methoxychlor

Lead (Pb)

Zinc (Zn)

Toxaphene

Mercury (Hg)

2,4-D
2,4,5-TP (Silvex)

If material contains the following compounds, indicate actual ppm:

PCB

Cyanides

Sulfides

Dioxin

SCOTTSDALE, AZ

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RUN # 7 MANIFEST # 30001 PROFILE # DEA-MSD
 NOT PROPER SHIPPING NAME: Waste Flammable Solid, NOS HAZARD CLASS: Flam Solid UNNA 1325
 EPA WASTE CODE: 0001 NAME OF PACKAGER: DCS CONTAINER TYPE: 20 gal pail

WASTE IDENTIFICATION		CONTAINERS		OTHER INFORMATION	
CHEMICAL NAME	EPA WASTE CODE	SIZE	TYPE		
1. Aluminum sludge	0001	3	1 Gal	Glass	
2. with water and					
3. ether in solution					
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WASTE IDENTIFICATION		CONTAINERS		OTHER INFORMATION	
CHEMICAL NAME	EPA WASTE CODE	SIZE	TYPE		
1. Sulfuric Acid	2002	1 qt	Plastic	Packed in 1 qt. jug	
2. Sulfuric acid on a					
3. plastic jug that					
4. also has some poly-2-propanol residues					
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DISPOSAL CONTROL SERVICE, INC.

888 W. ILUNI STREET, PHOENIX, ARIZONA 85041
(602) 268-0999 WATTS (800) 433-4981 (AZ Only)

MAY 21 1990

9002653

Date: 5-18-90

I am an authorized employee of Disposal Control Service, Inc., the company preparing the Lab Packs for DRUG ENFORCEMENT ADMIN. I hereby certify that the Lab Packs represented by this Material Characterization Data Sheet and Lab Pack Packing Lists are prepared and shipped in full compliance with the Marine Shale Processors, Inc. Lab Pack Guidelines.

Respectfully,

D. P. P.
Disposal Control Service, Inc.

DEA
Re: SCOTTSDALE LAB PACKS
REF No. 9002653

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO 015442

Form Approved, OMB No. 2050-0039, Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address US Postal Service 2535 Midway dr., San Diego, Ca 92121		CA 21181010191021251131412			
4. Generator's Phone (619) 221-3232					
5. Transporter 1 Company Name James Murphy		6. US EPA ID Number CA 01982725024			
7. Transporter 2 Company Name The Patterson Group		8. US EPA ID Number CA 01982725024			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA 01982725024			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit	15. Waste No.
a. Waste Flammable liquid, N.O.S. / Flammable / UN1993		No. Type	0101 DM	010050 G	0001
b.					
c.					
d.					
16. Additional Descriptions for Materials Listed Above Paint waste accept - JMU/USCA/9003020		RECYCLE / REUSE		K. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information Wear appropriate protective gear EMERGENCY CONTACT: 818-336-7200					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
Printed/Typed Name CORNELLIOUS BINGHAM		Signature C Bingham		10/6/14/90	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
Printed/Typed Name James Murphy		Signature James Murphy		10/6/14/90	
19. Discrepancy Indication Space		Signature		Month Day Year	
Printed/Typed Name Eric D. Patterson		Signature Eric D. Patterson		10/6/15/90	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name GINA Bissett		Signature Gina Bissett		Month Day Year 10/6/26/90	

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MATERIALS CHARACTERIZATION DATA SHEET

WASTE PROCESSORS, INC.

Five West, Suite 120

0087

0 9003020

Approval Code

JUN 01 1990

For MSP Use Only

A. Information

US Postal Service
235 Midway dr
Fargo ND 58102
John Barber
c/o mgr
91 221-3232
CA 2180090225

B. Customer Information

Company Name James Murphy
Contact Dennis Lynch
Address 3840 Reche rd
Fallbrook, Ca 92028
Telephone No. (619) 723-5871
For Customer Use
Paint Waste

C. Information

☐ Land Ban

☐ Non-Regulated

EPA Waste Code(s)

D-001

D. Composition

S - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.

1. 100%
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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST No 015463

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>LA01980617313421151763</u>		Manifest Document No. <u>101</u>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <u>US Circuit</u> <u>1526 Sterling Ct. Escondido, Ca 92025</u>		4. Generator's Phone <u>619 489-1413</u>		5. Transporter 1 Company Name <u>James Murphy</u>		6. US EPA ID Number <u>CA01982525024</u>		A. State Manifest Document Number	
7. Transporter 2 Company Name <u>The Patterson Group</u>		8. US EPA ID Number <u>CA01982525024</u>		9. Designated Facility Name and Site Address <u>MARINE SHALE PROCESSORS, INC.</u> <u>HIGHWAY 90 EAST</u> <u>MORGAN CITY, LOUISIANA 70380</u>		10. US EPA ID Number <u>LA01981057706</u>		B. State Generator's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. <u>Hazardous Waste</u> , <u>N.O.S. / ORM-E / NA9189</u>		No. <u>1</u> Type <u>DRUM</u>		<u>1</u>		<u>1</u>		<u>R</u>	
b. <u>Hazardous Waste Liquid</u> , <u>N.O.S. / ORM-E / NA9189</u>		No. <u>1</u> Type <u>DRUM</u>		<u>1</u>		<u>1</u>		<u>R</u>	
c. <u>Hazardous Waste Liquid</u> , <u>N.O.S. / ORM-E / NA9189</u>		No. <u>1</u> Type <u>DRUM</u>		<u>1</u>		<u>1</u>		<u>R</u>	
d. <u>Hazardous Waste Liquid</u> , <u>N.O.S. / ORM-E / NA9189</u>		No. <u>1</u> Type <u>DRUM</u>		<u>1</u>		<u>1</u>		<u>R</u>	
16. Additional Descriptions for Materials Listed Above		17. Handling Codes for Wastes Listed Above		18. Special Handling Instructions and Additional Information		19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.	
a. <u>Acid Copper solution</u> accept # <u>JMUR/UCIR/9002664</u>		b. <u>Acid Copper solution</u> accept # <u>JMUR/UCIR/9002664</u>		Wear appropriate protective gear				Printed/Typed Name <u>KISHOR GUNDRANIA</u> Signature <u>Kishor Gundrania</u> Month Day Year <u>10/6/14/1910</u>	
17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials		19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		Printed/Typed Name <u>JAMES MURPHY</u> Signature <u>James Murphy</u> Month Day Year <u>10/6/14/1910</u>	
17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials		19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		Printed/Typed Name <u>ERIC D. PATTERSON</u> Signature <u>Eric D. Patterson</u> Month Day Year <u>10/6/15/1916</u>	
17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials		19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		Printed/Typed Name <u>GINA BROSSETT</u> Signature <u>Gina Brossett</u> Month Day Year <u>10/6/26/1910</u>	

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. MAY 14 1990
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310 9002666

For MSP Use Only

Approval Code _____

A. Generator Information

Generator Name U.S. Circuit
Site Address 1526 Sterling ct
Escondido State Ca Zip Code 92025
Generator Contact Rick Allenby
Title mgr
Telephone No. (619) 489-1413
Facility EPA ID. No. CA0980673347

B. Customer Information

Company Name James Murphy
Contact Dennis Lynch
Address 3840 Reche rd
Fallbrook, Ca 92028
Telephone No. (619) 723-5871
For Customer Use _____

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non-Regulated EPA Waste Code(s) _____

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

	MIN	MAX
<u>Sulfuric acid</u>		<u>15</u>
<u>Water</u>		<u>60</u>
<u>Copper</u>		<u>10</u>
<u>Carbon Sludge</u>		<u>25</u>

Common Name of Waste: Acid copper solution w/carbon sludge

E. General Characteristics

Color: _____
Odor: ☐ None ☐ Mild ☐ Strong
☐ Liquid ☒ Sludge ☐ Solid ☐ Powder
Phases ☐ Single Layer ☒ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
<u>18</u>	☐ <1 ☐ 5-10	☐ <0.8 ☐ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 ☐ 6-10
BTUs per lb	☐ 1-5 ☒ >10	☐ 0.8-1.0 ☐ 1.4-1.7	list actual in centipoise	☐ 5-20	☐ 10-12.5
(list actual value)	list actual <u>50</u>	☐ 1.0-1.2 ☐ >1.7	cp	if >20	if <2 or >12.5
<u>11000</u>		list actual		list actual	list actual

Flash Point (closed cup)

☐ <100°F ☒ >200°F
☐ 100°-140°F ☐ _____°F
☐ 140°-200°F actual

Sulfur (Wt %)

☒ <5
if >5 list actual value _____

Halogens (Wt %)

	<1	1-5	5-10	if >10 list actual Wt %
Iodine	☒	☐	☐	
Bromine	☒	☐	☐	
Chlorine	☒	☐	☐	
Fluorine	☐	☐	☐	actual Wt %

Metals: EP Toxicity Test (MAG/L)

Arsenic (As) NS
Barium (Ba) NS
Cadmium (Cd) NS
Chromium (Cr) NS
Lead (Pb) NS
Mercury (Hg) NS

Selenium (Se) NS
Silver (Ag) NS
Copper (Cu) 100000 ppm
Nickel (Ni) NS
Zinc (Zn) NS

Organics (ppm)

Endrin NS
Lindane NS
Methoxychlor NS
Toxaphene NS
2,4-D NS
2,4,5-TP (Silvex) NS

If material contains the following compounds, indicate actual ppm:
PCB NS
Cyanides NS
Sulfides NS
Dioxin NS

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