REMOVAL REPORT

FOR

LANE PLATING REMOVAL ACTION 5322 BONNIE VIEW ROAD DALLAS, DALLAS COUNTY, TEXAS

Prepared for

U.S. Environmental Protection Agency Region 6

Will LaBombard, Project Officer 1445 Ross Avenue Dallas, Texas 75202

Contract No. EP-W-06-042
Technical Direction Document No. 5/WESTON-042-16-010
WESTON Work Order No. 20406.012.005.1039.01
NRC No. N/A
EPA ID TXN000605240
FPN No. N/A
EPA OSC Mark Hayes
START-3 PTL José L. Ojeda

Prepared by

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December 2016

EXECUTIVE SUMMARY

On 10 March 2016, the Region 6 U.S. Environmental Protection Agency (EPA) Emergency Management Branch (EMB) under Contract No. EP-W-06-042 tasked Weston Solutions, Inc. (WESTON®), the EPA Region 6 Superfund Technical Assessment Response Team (START-3) contractor, to perform a Removal Assessment (RA) at the Lane Plating Works, Inc. site located at 5322 Bonnie View Road in Dallas, Dallas County, Texas (Technical Direction Document [TDD] No. 5/WESTON-042-16-004). The RA was initiated in response to a request by the Texas Commission on Environmental Quality (TCEQ) to EPA Region 6 and included soil and waste sampling. START-3 initial RA activities were completed between 05 and 13 April 2016. Based on the analytical results from waste samples collected by START-3 during the April 2016 sampling event, EPA-EMB requested that removal actions be conducted at the Lane Plating facility (Lane Plating Removal Action). Additional RA activities were also requested by EPA-EMB through TDD No. 5/WESTON-042-16-008. Lane Plating Removal Assessment Phase II activities were completed between 19 and 23 September 2016. RA Phase II activities included further delineation of on-site contaminates of concern and were completed by collecting additional soil samples for analytical testing. On 22 August 2016, Region 6 EPA-EMB tasked START-3 under TDD No. 5/WESTON-042-16-010 to provide technical support, contractor oversight, and documentation of removal activities. Emergency and Rapid Response Services (ERRS) contractors completed waste characterization activities in October 2016; associated waste transport and disposal activities were completed in November 2016. During the removal action, EPA characterized, transported, and disposed of on-site accumulated and containerized waste in the following waste streams listed below. The associated volume per waste stream is also provided.

- UN1755, Waste Chromic Acid Solutions 121,500 lb
- UN3077, Waste Solid N.O.S. (contaminated soil) 17,750 lb
- UN3082, Waste Liquid N.O.S. (Cadmium/Chromium) 5,810 lb
- UN3262, Waste Corrosive Solid, Basic (Sodium Hydroxide /Cadmium) 1,450lb
- UN3260, Waste Corrosive Solid, Acidic, N.O.S. (Sulfuric Acid/Cadmium, Chromic Acid)
 3,300 lb
- UN3264, Waste Corrosive Liquid, Acidic (Hydrochloric Acid, Sulfuric Acid) 2,000 lb

ES-I

• UN1755, Waste Chromic Acid Solution – 18,200 lb

- UN1830, Waste Sulfuric Acid 1,765 lb
- UN3506, Waste Mercury 9 lb
- UN1001, Acetylene, Dissolved 150 lb
- UN1993, Waste Flammable Liquids, N.O.S. (Methyl Ethyl Ketone) 3,867 lb
- UN2922, Waste Corrosive Liquids, N.O.S. (Sodium Hydroxide/Sodium Cyanide) 11,816
 lb
- Non-RCRA hazardous Waste Solid (Oil Filters) 61 lb
- Non-Hazardous Liquid (Latex Paint) 190 lb

On 18 November 2016, the EPA Team completed field activities and demobilized from the site.

This Removal Action Report was prepared to describe the technical scope of work that was completed as part of the TDD No. 5/WESTON-042-16-010. The EPA On-scene Coordinator (OSC) was Mark Hayes. The EPA Team Project Team Leader (PTL) was José L. Ojeda.

	The EPA Task Monitor did not provide final approval of this report prior to the
	completion date of the work assignment. Therefore, Weston Solutions, Inc. has
	submitted this report absent the Task Monitor's approval.
	The EPA Task Monitor has provided final approval of this report. Therefore, Weston
	The EFA Task Monitor has provided infar approval of this report. Therefore, weston
X	Solutions, Inc. has submitted this report with the Task Monitor's approval.

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1 INTRODUCTION

On 10 March 2016, the U.S. Environmental Protection Agency (EPA) Region 6 Emergency Management Branch (EMB) under Contract No. EP-W-06-042 tasked Weston Solutions, Inc. (WESTON®), the EPA Region 6 Superfund Technical Assessment Response Team (START-3) contractor, to perform a Removal Assessment (RA) at the Lane Plating Works, Inc. (Lane Plating) site located at 5322 Bonnie View Road in Dallas, Dallas County, Texas (Technical Direction Document [TDD] No. 5/WESTON-042-16-004). The RA was initiated in response to a request by the Texas Commission on Environmental Quality (TCEQ) to EPA Region 6 and included soil and waste sampling. Initial RA activities were completed between 05 and 13 April 2016. Based on the analytical results from waste samples collected by START-3 during the April 2016 sampling event, EPA-EMB requested that removal actions be conducted at the Lane Plating facility. Additional RA activities were also requested by EPA-EMB through TDD No. 5/WESTON-042-16-008. Lane Plating Removal Assessment Phase II activities were completed between 19 and 23 September 2016. RA Phase II activities included further delineation of on-site contaminates of concern and were completed by collecting additional soil samples for analytical testing.

On 22 August 2016, Weston Solutions, Inc. (WESTON®), the EPA Region 6 START-3 contractor, was tasked by the Region 6 EPA-EMB under Contract Number EP-W-06-042 and TDD No. 5/WESTON-042-16-010 (Appendix E) to provide technical assistance, contractor oversight, and documentation of on-site activities during the removal action at the Lane Plating site. A Site Location Map is provided as Figure 1-1.

This removal action report describes the technical scope of work of removal activities at the Lane Plating facility conducted by Environmental Restoration, the Emergency and Rapid Response Services (ERRS) contractors. The EPA On-scene Coordinator (OSC) was Mark Hayes. The EPA Team Project Team Leader (PTL) was José L. Ojeda. The EPA Identification (ID) number for the site is TXN000605240.

1.1 PROJECT OBJECTIVES

The objective of this removal action was to eliminate the imminent threat and substantial

1-1

NRC No. N/A

endangerment to public health and welfare and the environment posed by on-site hazardous substances, pollutants, and contaminants at the Lane Plating facility. EPA accomplished the project objective through removal and off-site disposal of on-site accumulated, containerized waste.

The objectives were achieved by monitoring removal activities, coordinating with EPA OSC Hayes, and providing written and photographic documentation of site removal activities.

1.2 SCOPE OF WORK

The Removal Action scope of work included the following activities:

- Containerized on-site waste materials were segregated into compatible waste streams; bulked, as applicable; transferred or over-packed into appropriate shipping containers; and transported off-site for treatment and/or disposal.
- Conducted indoor air monitoring during removal activities.
- Provided oversight and documentation of removal activities.
- Coordinated with EPA OSC and ERRS contractors.

1.3 REPORT FORMAT

This report has been organized as follows:

Section 1 - Introduction

Section 2 - Site Background

Section 3 - Actions Taken

Section 4 – Summary

Additional information is provided in the appendices following the text of this report. The appendices are as follows:

Appendix A Site Logbook

Appendix B Digital Photographs

Appendix C Waste Manifests

Appendix D Pollution Reports

Appendix E TDD No. 5/WESTON-042-16-010

NRC No. N/A

2 SITE BACKGROUND

Information regarding site location, site description, potential sources of hazardous material, operational and regulatory history, and summary of previous investigations is presented in the following subsections.

2.1 SITE LOCATION AND DESCRIPTION

The site is located at 5322 Bonnie View Road in Dallas, Dallas County, Texas, within a mixed commercial and residential area. The approximate center of the site is located at Latitude 32.6878557° North and Longitude 96.7692897° West. The site consists of a 15,452-square foot electroplating process building, a waste storage shed, a former wastewater treatment building, and miscellaneous tractor trailers. The site encompasses approximately 4.655 acres according to the Dallas County Central Appraisal District. A relative of the owner resides in a home located adjacent to the north side of the site; a residential area is located 0.25-mile northwest; to the east approximately 7 miles is H. Grady Spruce High School; and 0.3 mile to the south is Five Mile Creek that discharges into the Trinity River. A barbed-wire fence and locked chain-link fence surrounds the property, and the building is locked with the windows boarded up. There is no access to the site except by key at the locked gate. Site topography and surface water drainage appears to slope to the south-southeast. A Site Area Map is provided as Figure 2-1. A Site Property Map is provided as Figure 2-2.

Lane Plating Works, Inc. is an abandoned electroplating facility and contains electroplating wastes from operations that ended in 2015. The property is currently controlled by Stag Management, Inc., a court-appointed trustee. Typical electroplating process waste identified on-site includes acids, bases, flammables, oxidizers, cyanides, chromium-contaminated solids (sludge) and liquids, and Resource Conservation Recover Act (RCRA) non-hazardous solids and liquids.

2.2 POTENTIAL SOURCES OF HAZAROUS MATERIALS

Information concerning the known or potential hazardous substance source areas at the site are presented in the following section.

Based on the Texas Commission on Environmental Quality (TCEQ) investigation conducted on

2-1

04 November 2015 and on TCEQ sampling activities on 19 November 2015, former site activities that contributed to potential sources include the following:

- Stripping metal parts of dirt, oil, grease, and scale in acid.
- Grinding and buffing metal parts smooth prior to and during plating.
- Pretreatment of metal parts using sodium hydroxide and sulfuric acid.
- Copper plating using copper cyanide.
- Zinc plating aluminum using nitric acid and zinc cyanide.
- Nickel plating using nickel sulfate.
- Chrome plating using chromic acid.
- Electroplating wastewater treatment.
- Generation and storage of solid waste.

2.3 OPERATIONAL AND REGULATORY HISTORY

Lane Plating was in operation for over 50 years at the site as an electroplating facility, conducting primarily (60% to 70%) hard chromium plating and cadmium plating. Processes performed at the facility included chromate dips, chromic acid anodizing, hard chrome plating, cadmium plating, black oxide coating, electroless nickel plating, passivation, machining, and grinding. In addition to electroplating, the facility also operated a lead melting pot used to repair anodes used in the plating baths. The facility housed two chrome tanks, and according to TCEQ Air Compliance Section reports, the emission from the tanks was controlled by a mesh-pad scrubber and mist eliminator fume hood system. The last updated Notice of Registration (NOR), dated 18 January 2011, listed 10 hazardous wastes and 3 Class II Industrial Solid Wastes.

2.4 SUMMARY OF PREVIOUS INVESTIGATIONS

Information regarding previous on-site investigations conducted by state and federal regulatory agencies are summarized in this section.

In February 2010, the TCEQ Dallas/Fort Worth (Region 4) office conducted an unannounced investigation at the facility. Sixteen 55-gallon drums of hazardous plating waste were observed unlabeled and missing necessary identification and accumulation dates. A Notice of Violation (NOV) letter was transmitted to the facility on 24 February 2010 for alleged violations of *30 Texas*

Administrative Code (TAC) 35.69 for failure to properly label hazardous waste containers.

On 19 January 2011, the TCEQ conducted an Industrial and Hazardous Waste (IHW) Compliance Evaluation Investigation (CEI) at the facility. Based on observations made during the CEI, it was determined that soil sampling was necessary. As a result of the CEI, five alleged violations and one additional issue regarding the rules for IHW were documented and formal enforcement action was initiated.

A proposed Agreed Order was issued to the facility on 5 July 2011. This Agreed Order directed the facility to complete technical requirements, including immediately:

- Ceasing any additional unauthorized discharges
- Removing all discharged industrial solid waste, visibly impacted soils, and waste containers from the facility.
- Disposing of waste properly at an authorized facility.
- Developing and implementing procedures to ensure that all containers storing hazardous
 waste were removed within the allotted accumulation time limit and transported to a facility
 authorized to accept the waste.
- Submitting annual waste summaries for calendar years 2008 and 2009.
- Begin maintaining all records of all hazardous and industrial solid waste activities.
- Submitting an Affected Property Assessment Report (APAR).

On 16 September 2014, the TCEQ Enforcement Division requested the TCEQ Region 4 office to conduct an on-site investigation at Lane Plating to determine if the facility had complied with the Agreed Order.

On 23 March 2016, EPA, TCEQ, and START-3 conducted a preliminary reconnaissance to observe current site conditions and to discuss project objectives for the initial RA (TDD No. 5/WESTON-042-16-004). START-3 conducted air monitoring within the building for acid gas, volatile organic compounds (VOCs), and mercury vapors during the site visit. During the preliminary reconnaissance, soil and liquid waste sampling strategies were discussed between EPA and START-3.

Following the preliminary reconnaissance, EPA and START-3 developed a sampling strategy that included establishing a 50-foot by 50-foot sampling grid surrounding the footprint of the facility.

On 05 April 2016, START-3 mobilized to the site and established 50-foot by 50-foot grids around the exterior facility utilizing a Trimble Pro-XRT Global Positioning System (GPS) unit. The corner points of each grid were marked with pin flags and labeled.

START-3 conducted soil and liquid waste sampling activities from 12 through 13 April 2016. All sampling activities were completed in accordance with the START-3 Quality Assurance Sampling Plan. During field assessment activities, a total of 36 soil samples (30 composite samples and six grab samples) including duplicate samples were collected and analyzed to determine nature and extent of hazardous substances in soil. A review of the soil analytical results indicated that two prevalent hazardous substances, hexavalent chromium and lead, were detected at levels exceeding EPA Regional Screening Levels (RSLs) criteria (Industrial Soil [THQ = 1.0], May 2016). Four liquid waste samples (including three normal samples and one duplicate sample) were collected from totes located within the facility to confirm the presence of hazardous substances. The four liquid waste samples were identified as hazardous waste based on the characteristic of corrosivity and elevated total chromium results.

On 19 September 2016, the EPA Team returned to the site to conduct additional soil sampling (TDD No. 5/WESTON-042-16-008) to further characterize the property and to further determine the nature and extent of site-related hazardous constituents associated with electroplating waste (plating waste) in on-site soils.

From 20 through 23 September 2016, the EPA Team collected composite five-point soil samples from within approximately 76 grids, an additional 33 grids from the previous sampling event conducted in April 2016. Samples were collected at three depth intervals: 0 to 6 inches below ground surface (bgs), 6 to 12 inches bgs, and 12 to 18 inches bgs. Soil samples were submitted for analysis of metals and hexavalent chromium (Cr [VI]). A total 216 samples (192 normal and 20 duplicate) were collected during this sampling event. Samples collected at the 6 to 12 inch bgs interval were placed on hold pending analytical results from the 0 to 6 inch bgs and 12 to 18 inch bgs intervals.

3 ACTIONS TAKEN

During this Lane Plating Removal Action, EPA removed accumulated on-site waste identified during the removal assessment and transported it off-site for disposal. Containerized waste materials found within plating vats, drums, pails, and tote tanks were field tested for hazardous waste characteristics and compatibility, as needed; segregated into compatible waste streams; bulked, as applicable; transferred or over-packed into U.S. Department of Transportation (DOT) shippable containers; and transported off-site for treatment and/or disposal. Site soils identified during the Removal Assessment (TDD No. 5/WESTON-042-16-008) as containing elevated concentrations of hexavalent chromium and lead and/or mercury were not addressed during this removal action. Site soil previously excavated by the property owner at the direction of TCEQ was transported and disposed off-site as part of this removal action.

On 3 October 2016, the EPA Team mobilized to the site to begin waste characterization of liquid waste found in various totes, drums, and buckets within the facility, and to consolidate remaining liquid waste into appropriate containers. From 4 October through 18 October 2016, the EPA Team conducted the hazardous characterization identification of approximately 153 containers. Drums and containers were grouped by waste streams and compatibility for future transport and disposal at an authorized facility. In addition to consolidating waste streams, vats and sumps were pumped of their contents and transferred into compatible containers. Field tested waste stream inventory included the following:

- Cyanide (CN) Solution
 - 23 55-gallon drums
 - 1 275-gallon tote
- Cyanide (CN) Solids
 - 2 55-gallon drums
- Acid/Oxidizer (chromic acid)
 - 21 55-gallon drums
 - 39 275-gallon totes
 - 1 330-gallon tote
- Acid/Oxidizer sludge (chromic acid sludge and solids)
 - 22 55-gallon drum

- 1 95-gallon overpack
- 1 cubic-yard box (bricks from vat bottom)
- Sulfuric Acid
 - 2 55-gallon drums
 - 9 30-gallon drums
- Flammable Paint
 - 2 55-gallon drum loose pack
- Latex paint
 - 2 55-gallon drum loose pack
- Flammable Aerosol
 - 2 5-gallon pails
- Acid Solids
 - 2 55 gallon drums
- Acid Liquids
 - 4 55-gallon drums
- Neutral Liquids
 - 1 275-gallon tote
 - 9 55-gallon drums
- Neutral Solids
 - 2 cubic yard boxes
- Elemental Mercury
 - 1 5-gallon pail
- Waste Oil
 - 2 55-gallon steel drums
 - 1 330-gallon tote
- Waste Oil Filters
 - 1 55-gallon steel drum
- Flammable Liquids
 - 1 55-gallon steel drum
- Caustic Solids
 - 4 55-gallon drums
 - 1 cubic yard box

- Caustic Liquids
 - 12 55-gallon drums
 - 1 30-gallon drum (ammonia hydroxide)
- Soil
 - 12 cubic-yard bulk bags
 - 2 55-gallon drums

From 14 through 18 November 2016, the EPA Team returned to the site to coordinate and arrange for the transportation of on-site waste containers to an authorized facility for final disposal. Table 3-1 provides a summary of waste disposal. Each waste manifest is listed and the associated waste stream, disposal volume and designated disposal facility are documented.

Table 3-1 Summary of Waste Disposal

Date	Designated Facility	Manifest Tracking	Waste Description		ntainers	Approximate Total
	,	Number		No.	Type	Quantity (lb)
11/16/2016	Clean Harbors Deer Trail Landfill, Deer Trail, CO	9776314	UN1755, Waste Chromic Acid Solution	15	TP	43,000
		9776315	UN1755, Waste Chromic Acid Solution	14	TP	43,000
		9//0313	UN1755, Waste Chromic Acid Solution	3	DF	1,500
			UN1755, Waste Chromic Acid Solution	11	TP	34,000
		9776316	UN3077, Waste Solid N.O.S. (contaminated soil)	5	BA	5,800
			UN3077, Waste Solid N.O.S. (contaminated soil)	7	BA	7,000
	Clean Harbors Deer Trail Landfill, Deer Trail, CO	9776313	UN3082, Waste Liquid N.O.S. (Cadmium/Chromium)	1	TP	3,000
			UN3077, Waste Solid N.O.S. (Chromium)	9	CF	1,350
			UN3077, Waste Solid N.O.S. (Contaminated Soil)	2	DF	600
11/17/2016			UN3262, Waste Corrosive Solid, Basic (Sodium Hydroxide)	1	CF	900
			UN3260, Waste Corrosive Solid, Acidic, N.O.S. (Sulfuric Acid/Cadmium)	2	DF	300
			UN3262, Waste Corrosive Solid, Basic, N.O.S. (Sodium Hydroxide/Cadmium)	4	DF	550
			UN3264, Waste Corrosive Liquid, Acidic (Hydrochloric Acid, Sulfuric Acid)	4	DF	2,000
		9776307	UN3082, Waste Liquid, N.O.S. (Cadmium/Chromium)	9	DF	2,400
			UN3082, Waste Liquid, N.O.S. (Cadmium/Chromium)	1	DF	410
			UN1755, Waste Chromic Acid Solution	18	DF	9,000
			UN1755, Waste Chromic Acid Solution	22	DF	8,800

NRC No. N/A

Date	Designated Facility	Manifest Tracking Number	Waste Description	Containers		Approximate Total
	,		·	No.	Туре	Quantity (lb)
			UN1755, Waste Chromic Acid Solution	1	DF	400
			UN1830, Waste Sulfuric Acid	9	DF	1,350
	Clean Harbors Deer Trail		UN1830, Waste Sulfuric Acid	2	DF	415
11/17/2016	Landfill, Deer Trail, CO	9776307	Non-RCRA hazardous Waste Solid (Oil Filters)	1	DF	61
			UN3260 Waste Corrosive Solid, Acidic (Chromic Acid)	2	CF	3,000
	Veolia ES Technical Solution, Henderson, CO	9776310	UN3506, Waste Mercury	1	DF	9
	Clean Harbors La Porte, La Porte, TX	9776312	UN1001, Acetylene, Dissolved	1	CY	150
	Clean Harbors Environmental Services, Kimball, NE	9776308	UN1993, Waste Flammable Liquids, N.O.S. (Methyl Ethyl Ketone)	1	DM	67
			UN2922, Waste Corrosive Liquids, N.O.S. (Sodium Hydroxide/Sodium Cyanide)	12	DF	4,800
			UN2922, Waste Corrosive Liquids, N.O.S. (Sodium Hydroxide/Sodium Cyanide)	1	DF	116
11/18/2016			UN2922, Waste Corrosive Liquids, N.O.S. (Sodium Hydroxide/Sodium Cyanide)	23	DF	6,900
	Clean Harbors Spring Grove Resource		UN1993, Waste flammable Liquids, N.O.S. (Methyl Ethyl Ketone)	2	DM	850
	Recovery, Cincinnati, OH	9776309	UN1993, Waste flammable Liquids, N.O.S. (Methyl Ethyl Ketone)	1	DM	2,950
	Clean Harbor Deer Trail Landfill, Deer Trail, CO	9776110	UN3077, Waste Solid, N.O.S. (Silver)	2	CF	3,000
	Twin Enviro Services Phantom Landfill, Penrose, CO	Non- Hazardous Waste Manifest	Non-Hazardous Liquid (Latex Paint)	2	DF	190
			Approximate Total Quantity (lb):		187	,868

Burlap, cloth, paper, or plastic bag BA

TP Portable Tanks

CFCY Fiber or plastic boxes, cartons, cases

Cylinders

- DF Fiberboard or plastic drums, barrels, kegs

- DM Metal drums, barrels, kegs

- lb pound

NRC No. N/A

3.1 AIR MONITORING RESULTS

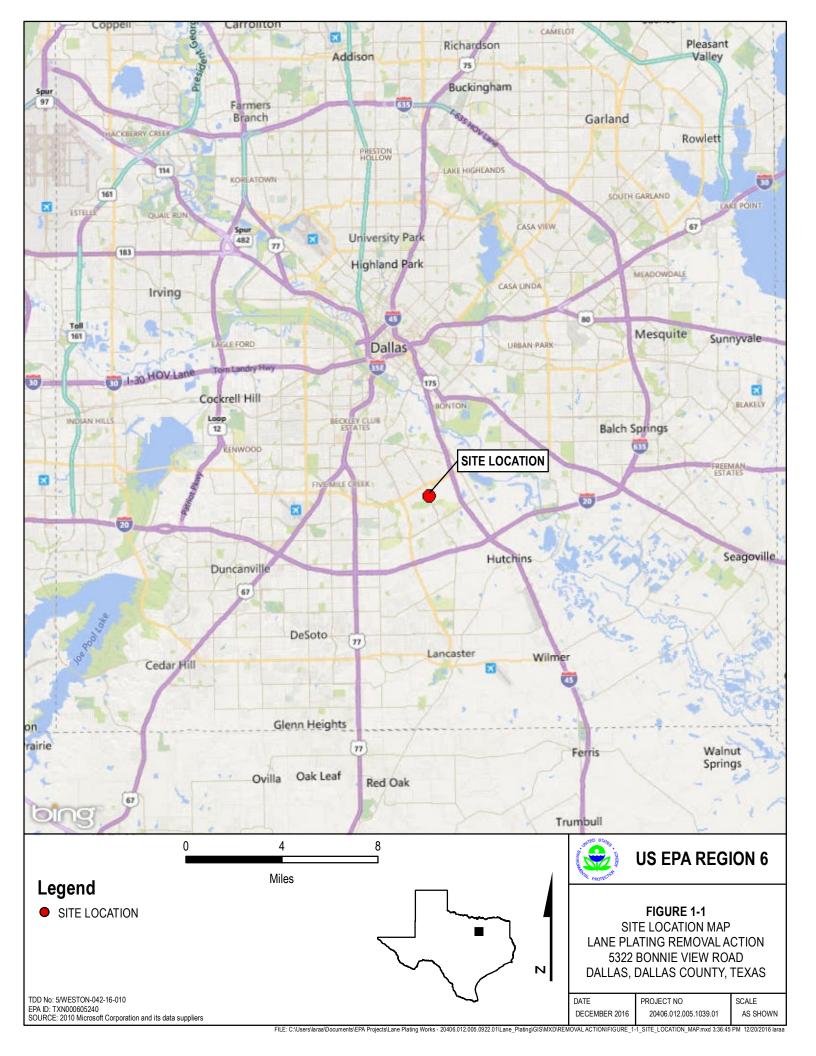
The EPA Team utilized a THERMO Data Ram DR-4000 to conduct air monitoring for particulate matter during removal activities. Air monitoring equipment was utilized in active work areas and was programed to log particulate concentrations throughout the day. Readings were analyzed to determine average concentrations, peaks, and exceedances of particulates in the air at each sampling location. No readings above action levels were detected.

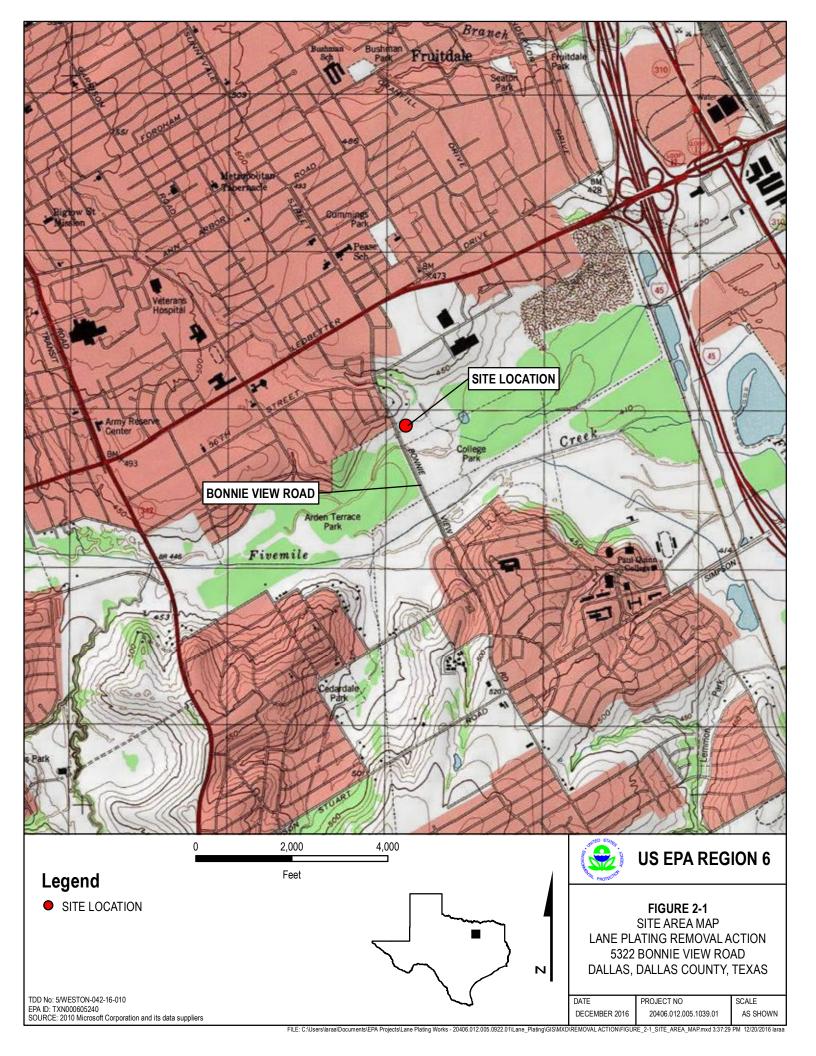
4 **SUMMARY**

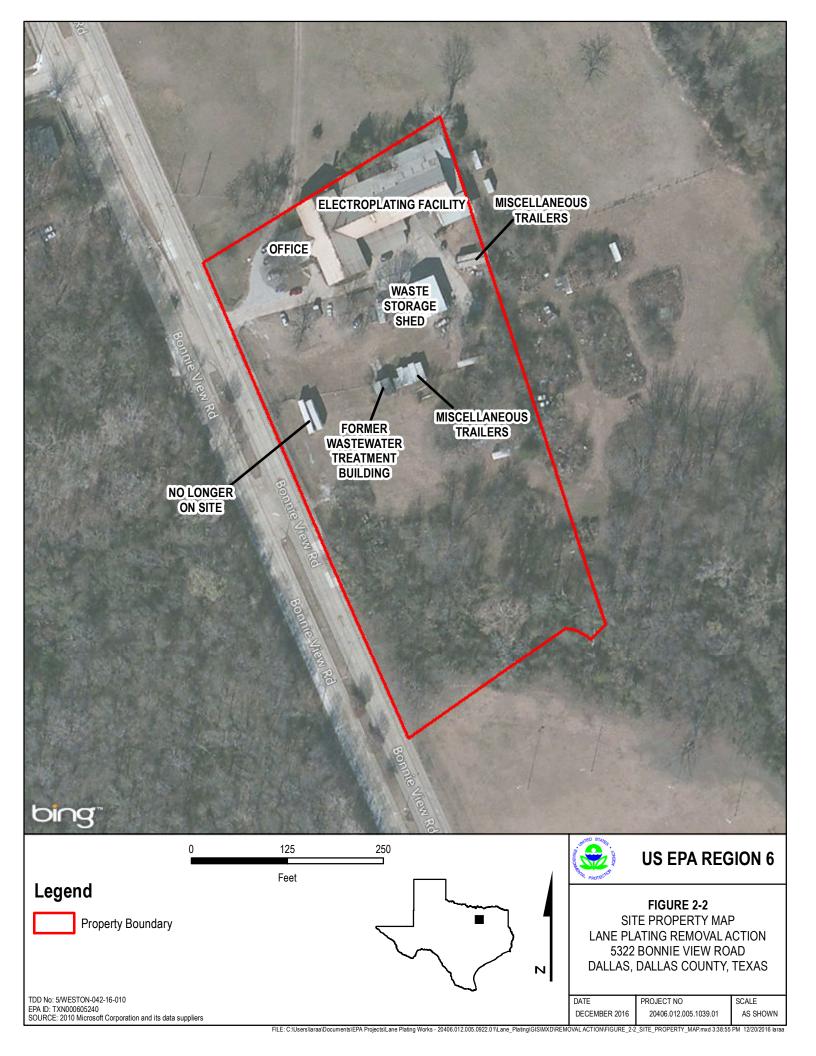
From 4 October to 18 November 2016, EPA conducted and successfully completed a time-critical removal action at the Lane Plating Site. Removal Actions consisted of the removal and off-site disposal of accumulated, containerized on-site waste materials that comprised of hazardous substances, pollutants, or contaminants. From 4 October through 18 October 2016, the EPA team conducted the hazardous characterization identification of approximately 189 containers. Drums and containers were grouped by waste streams and compatibility for future transport and disposal at an authorized facility. From 14 through 18 November 2016, the EPA Team returned to the site to coordinate and arrange for the transportation of on-site waste containers to an authorized facility for final disposal. During the removal action, EPA characterized, transported, and disposed of on-site waste in the following waste streams and associated volumes.

- UN1755, Waste Chromic Acid Solutions 121,500 lb
- UN3077, Waste Solid N.O.S. (contaminated soil) 17,750 lb
- UN3082, Waste Liquid N.O.S. (Cadmium/Chromium) 5,810 lb
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- UN3260, Waste Corrosive Solid, Acidic, N.O.S. (Sulfuric Acid/Cadmium, Chromic Acid) 3,300 lb
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- UN1755, Waste Chromic Acid Solution 18,200 lb
- UN1830, Waste Sulfuric Acid 1,765 lb
- UN3506, Waste Mercury 9 lb
- UN1001, Acetylene, Dissolved 150 lb
- UN1993, Waste Flammable Liquids, N.O.S. (Methyl Ethyl Ketone) 3,867 lb
- UN2922, Waste Corrosive Liquids, N.O.S. (Sodium Hydroxide/Sodium Cyanide) 11,816 lb
- Non-RCRA hazardous Waste Solid (Oil Filters) 61 lb
- Non-Hazardous Liquid (Latex Paint) 190 lb

On 18 November 2016, the EPA Team completed field activities and demobilized from the site.







APPENDIX A

SITE LOGBOOK

DEFYING MOTHER NATURE TAM

SINCE 1916



All components of this product are recyclable

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Nº 391FX

Lane Plating Removal Action 70406.012.005. 1039.01

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Logbook 1 ot_





Name

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CONTENTS DATE REFERENCE START PTL. Jose Och 619-417-3298 EPA OSE Mark Heges 214-232-7134 ERRS Rafa Aguero (ER, UC) 281-844-9197 EPAOSC Mike McAter 214-354-9371 Environmental Restoration, LLC Evan Workman 303-518-7339

October 5, 2016 2 October 4, 2016 Cane Plating Removal 20466,012,005, 1039.01 20406,012.005,1039.01 Cane Plating Roman! 0600 START-3 departs to project site - 2.0600 START-3 departs to project site-0720 START-3 arrives onsite. - dr-0640 START-3 arrives onsite 2 ERRS personnel onsite setting generator 0650 ER personnel arraise onsite -Weather: 71° F; Cloudy; Wind from Se 12 mph of from the Se 10 mph; 100% humidity; of T2% humidity; Anticipated high 88° F. - or Expected high 90° F. - or Expected high 90° F. - or Expected high 90° F. Health & Safety: Entry into building; slips of do I chemist; I fork lift operator; I accountent; do frips; low light visibility do Q700 Deta RAM: Area RAE; Multi-RAE; de EPA OSC Mark Hayes & Mike McAteer or and Driver Pac II started for air - dr consite

Consite

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Mylti RAE sensors - Cky: (EL; CO; H2S; Voc-de Mylti R 1/00 ERRS began setating work lights or AreaRAE sensors: No. , voc; soz; EL; Organithing building.

ERRS bring issues with generator or love RAM; Action Level = too as /m3-J ENRY currently onsite: I response manager; der DRO Conducted site with through up ERRS. Der 3 labor der formatte entry der des of Concern. Provided the der STRRS crew to sweep areas to clar debris ERRS having issues with power to provide de de from walking pathonemys. Speed draws to de lights inside building.

1730 ERRS compling scheduled to begin de 1830 ERRS collected simples from de 1730 ERRS collected ERRS chemist de 1835 Arrive a Westen Office de Hazart samples collected ERRS chemist de 1835 Arrive a Westen Office de Hazart samples collected samples from de 1835 Arrive a Westen Office de Hazart samples collected samples from de 1835 Arrive a Westen Office de 1860 ERRS preppins to collected samples from de 1800 ERRS preppins to collected samples from de 1800 ERRS preppins to collected samples from des 1800 ERRS preprins from des 1800 ERRS preprins from d

October 6, 20/6 20406.012.005.037.01 Care Morting Removal

Mechine shop. Entry will be made in a Coco START. 3 deports for site of 1500 Completed samples Machine Shop at ERRS prepains to sample Chamical of 1500 Completed samples Machine Shop at ERRS prepains to sample Chamical of 1500 Marches from Timoing Room & Machine Shop Storage Area.

Still needs to be dougleted.

Wenther: 79°F; Cloudy; Winds from the Some 1730 Departs site. 4 October 5, 2016 1730 Departs site @ 12mph; 81% humility; High of 90 7 -> 1830 Arrive @ Weston Office. - Dr 0000 Started & warmed-up minitoring equipment. Jource on Octa KAM shows a Failure. Source 2 & Detector are Normal -0920 ERRS begin Lovel B sampling in Chembal Storage Area.
Personal On-site: STATT-3; Jose Geda; EPAOSC: Mark Hages .; ERRS: 1 Km; 1 Accountant; 1 Fook lift Operator; 3 Cabor;
1 Chemist.
1115 Sampling in Chemical Storage Area - 2

completed. ERRS to begin consolidating containers and complete HARCAT of samples. 1530 EARS begin transferring contents from tanks in Tinning Room into poly drums. 1645 ERRS stepped pumping and began end of Depart site @ 1930

Arrive @ Weston @ 1830

October 8,2016 6 October 7. 2016 20106.92.005.1039.01 Came Plating Removed 20406.012.005.1039.01 Lave Plating Removal OGOU START-3 mbilizes to site 0600 START-3 mobilizes to site OGUS START-3 arrives on site 0645 SART-3 arrives onsite. Weather: 70° F; Heavy Thurder storm; Weather: 79°F, Sunny Wind N@5 mph Wind from Ne 15 mph; 89% humidity; 89% Humidity Expected high of 74 F; Thursberstorm expected 0700 ERRS crew on site: IRM, laccountant, loperator; 3 labor. to stop e~ 10 am. START-3 on site: Sean Hettinger -0700 ERRS crew ansite: / RM; / Accompant; Health and Safety . Sips, Trips, and Fall's, working with / chemist; / Gerater START-3 ansite: Jose Cela of Som Hattinger cyanide -Halth & Satety: Wet conditions. Slipping walking 0715 Started Date RAM and PACIL Data Rom: Cal, braded OK, Swrce land 2 Norm! Conditions, 07/0 Started Data RAM & PACTY. 0730: ERRS begins transferring liquids from vots -DetaRAM Source 1 Failure. Source 2 In tining Cooms who takes. 1715 ERRS completes draining of vats in timing 08/0 ERRS begins transferring liquids from rooms and begins end of dry activities. 1730 Depart Sile EPA OSC Mark Hayes on site 1930 Arrive at weston office 1045 ERRS begins transferring liquid from Tank 1 in the Chemmical Storage Area into Poly totes 1510 ERRS begins draining counide tunks on North will of tuning rooms into poly drums 1715 CRRS completes draine of cranide from tent on North hall and begins end of day achirles 1730 Depart Site 1830 Amire at Weston Office -

8 October 9, ZOIC	October 10, 2016
20406.012.005.1034.01 Lane Plating Remark	20406.012,005.1039.01 Lam Plating Remova
OCUO START-3 depurts from sike	0600 START-3 departs to site
0645 START-3 smiles on site	0645 START-3 armes on site
Weather: Currently 53°F, High of 80°F, Clear shies -	Weather Currently 54°F, High of 83°F Partly Goody
Winds ENE at 5-10 mph. Humidity 819,	Winds ENE @ 3 mph, Hunidity 82%
0700 ERRS crew on site; IRM; Accountent; I chemish; -	0700 ERRS crew on site; IRM; accountant, I chain
I operator; 3 labor	loperator, 3 labor
START-3 on sile: Sean Hettinger	START-3 on- Site: Sean Hettinger
Idealth and Safety: Slips trips, and hills; Dangerous chemicals	Health and Safety: Slips, Trips, and fills; Dangers Chemicals
0710 Glanked Date RAM and turned on RAC Ils -	0715 Calibrated Data RAM and turned on PACIL'S
DATARAM anhibated OK	Duta RAM calibrated CK
Planued activities for the day include transformy	ERRS will resume removing material from lank 3
meterials in downs in mechine shop room into new	ERRS will resume removing material from Tank 3 in the Chemical Storage area and sampling and
poly draws in preparation for shoret	Inzenting drums in Chemical storage area.
0930 ERES completing tousterny downs in machine	1500 ERRS completed cleaning of Tank J. ERRS
Thop room and will begin removing sadium ash and	will continue with sampling dams and the cating
remains material from Tank I in the chemical storage	1600 ERRS are cleaning dams and preparing for
1700 some 1 molin molin 1 1 1 P 1 2	potential shipping.
1300 ERRS began pumping Material out of Tinh 3	1730 ERRS completed end of day activities and
in the amical Storage area into poly totes.	all pertus departed site
end of day activities.	1830 Amire @ Wester office
1730 Depart Site	
1830 Armie Wheston office.	
	Real Property Comments

Odlober 12, 20/6 October 1/2016 20406,012.005.1037.01 Lave Plating Remark 20466.012.005. 1039.01 Lane Playing Remova 0600 START-3 Deports to site Doo START-3 departs to site -0645 START-3 arrives in Site 2645 START-3 arrives onsite Weather: Corrently 57°F, High of 87°F, Clear Skies 0705 ERRS acrives insite. Conduct daily Wind: SE@ Emph, Humidity 76% -Personne l'onsite: START-3 dose Opera; - 2 ERRS: IRM; I Account fant; l'Operator; - 2 6700 ERRS on site, IRM, laccountent, I chemist START-3 on site: Sean Het-lineger Genther: 74º F; cloudy; Expected high 89 F Health and Safety: Slips, Turps, and Palls Wind from Se 10 mph; 65% humidity; - 20 07/5 Started Dute RAM place To So Today's site activies include cleaning out large Vats in south area of chemical storage area and consolidating neutral drams in chemical storage area. 1930 Tour facility w/ OSC Hages of -1130 ERRS begins removing brides from ERRS continued consolidating drums, and the bottom of Tank 3 in the sturage area. For disposal. organizing drums into waste streams. -100 41 HAZCAT Competed. ERRS began end of day duties. 1600 START-3 took down Data Kan to charge. Drum cutting is being conducted outside 1230 START-3 deports site. Do 1645 ERRS stopped drum withing and began end of 1830 Arrive @ Western Office - do day activities 1730 Depart Site 1830 Amre at Weston Office

12 October 13. 20/6
20/66.012.005.1039.01 Cane Plating Removal 20406.012.065,1039.01 Cane Plating Removal 0600 START-3 departs for site 2 0600 START-3 departs for site. Personal Onsite: START-3 Jose Gele; -> Personal Onsite: START-3 Jose Gela; -> ERRS: 3 Labor; 1 Rm; 10 perator; 1 chemist. ERRS: 3 Labor; 1 Rm; 10 perator; 1 Chaist;
1 Accountant I Chang; Expected high 797 - - Weather: 63°T; Cloud; Scattered thumbertoons; Wind from NNW e Imph; 69% humidity — In Expected High 82 =; Wind from SEC Hoph - 2

CRRS to sentince consolidating waste streams. Humidity 76% —

O730 Data RHM started and Zerocd. — Or Anticipated Ops: Confined space work in I

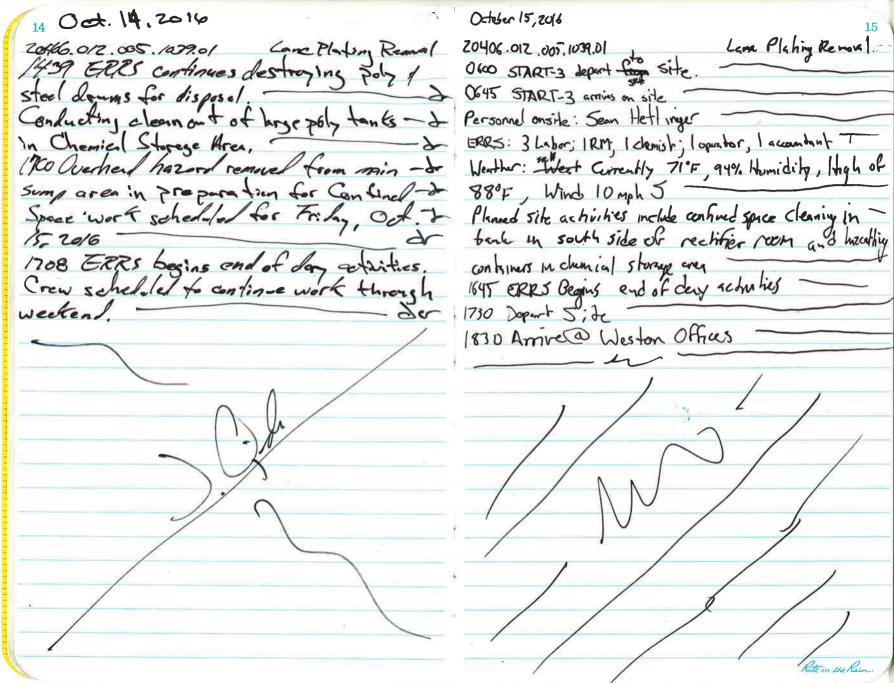
All sources pormal. — I waim sumpscheduled for afternoon. — I

1013 Background sample allected a property Hulthy Safety: Confined Space. — I

Orth of Cecility — I of Santa Sample go 0'-6", y 12"-18" — I started of wormed up. — I

1425 Rel of Confined Space. — I

1425 Rel of Confined Space. — I started of wormed up. — I 1425 Bockgrand sample shipped un Data ZAM Source 1/2 Normal 1930 Depart Site. — der OBCO Calibrate MaltiRAE -1930 Depart Site. — der Fresh Air: All sonsors PASS 1830 Arrise @ Weston Office. — der Oxy Pass; LEL Pyss; CO 2 As Pass : LEL Pass ; CO Pass
Has Pass : Voe lass :
0829 Cilibrate Ara 246 -9-8 Fresh Air: All sensors 0.0 ppm -Sonsite trailers operate For there do Investigation of their contents will need to be conducted. It is lelived to site - or



16	October 17, 2011
October 16, 2016 20406.012.005.1039.01 Lane Phhy Revers	20106.012.005.1039.01 Lane Asting Removal
0600 Start-3 Depart to site	OGOO START-3 Depart to sike
0645 Shet-3 Arrive on sik	0645 START-JAmen site
Personnel on-sile: Sean Nethinger	Personnel on Site: Sean Hettinger
ERRS: IRM: I accordant; (chemist: 3 labor 1 ocustor	ERRS: IRM; laccounterf: 1 chemist; lopentr; 3 labor -
Weather: Currently 79°F, thigh of 80°F, Hamidity 81%, clody	Wenther: Currently 73°F, Pertly Cloudy, High of 90°F
Wind SSE 11mph	Idenidity 89%, Wind 5 11 mph
Anhumbed Sike Achibes: Cleaving of pit of south side	Today's site activities: Cleaning tranks cutanto south
chemial stores area	of Guilding. Semply myking to chemical Storage room
chemial shorage area	ERRS conducted theith and safety muchy
ERRS completed cleaning of pit and will pumpout -	1130 BRRS completed demy truly article and -
1/4t in Chemical storage area and remove lead -	will steer t prelocoping items in chur and storage -
smelter on morth side of pulling—	aren for ship rest
1415 ERRS was unalle to remove smaller and it was decided	1430 Vge buch amoves to clearing when ust
by OSC to leave it ERRS in M contine pouply int	In chemical storage area
in chemial storage area	1445 Fire shalf arrives to dispose of fire extingusters
1700 ERRS begins and of site activities	ERRS is having difficulty pumping the sludge
1730 Depart Site	out of the vot due to its thickness they
1830 Amre @ Wester office	will top and mix the sludge with her tomanner
- has	to try and remove it.
	1730 Depurt Site
	1830 Amire @ Weston Offices
	100000000000000000000000000000000000000
V NO /	
(// SS //)	
	Rote of Real March

18 Oct 18, 2016	November 14,20/6
20406.012.005.1039.01 Lane Philing Remons	20406 012.005. 1039.01 Long Plating Remon!
0600 START-3 deprts to site	ORO STARTIS Seports Veston Office - >
0600 START-3 depots to site	START-3 = Jose Jeda PTL - 8
Personnel: Sean Hettinger -	0830 STAZT-3 arrives at EPA Cool to
ERRS: 1 RM; 1 Accombat; I chemist i I operator; 31, bor-	retrieve Oata Ram; Area RAE y MiltiRae.
Westler: Corrent by 730F, High of 90°P, Humoth 91% -	0930 START-3 arrives onsite e Conellating
Wind 511 mgh; Mostly Cloudy;	1045 Eun Wootman; Project Manyes for -S
ERRS phus of Marking grother attempt to	Environmental Restoration, arrives onsite
dear the var from perturbay; using a pressure-	Wenther: 66° F. Winds from the SSW@ 8mgh
wisher to thin the undersal	Hum: dity 72%; 20% cloud ever.
ERRS was not able to remove all material from	Satety: Origing satety to of from jobsite or
Vat, they will remove therest of the unteres!	1130 Egipport delivered: Mini Encavator; Est 10ft;
ERRS derved floor usts in them ground below -	Frenche ter and Power Washer
ERRS deried floor usts in them ground below -	1545 Additional supplies accived ansite.
Kryse water trule in chemical storage area.	1655 tortable toilets arrived onsite. or
EKKS placed miting from Ripse water 19th	Desay pouring lime in the rinse water
into plastic to les	tant liquids started heating up and or
ERRS begins removey material from vots in -	evaluating. Fans were turned on and to
storage one outside of buildry a see south side of -	Personne / onsite:
the property and sampling materials solved in -	Personne onsite:
Churical storage area	START-3- Jose Ocha; OSC - Mall Ages;
ERRS begin consoliding miterals and why	RM-1; Machine Operator -1;
, empto downs for disposed.	Laborers - Z.
1625 ERRS begins end of site notivities, -	1730 Depart site
	1830 Arrive e Wester office
200	10/
	Kille in the Rain

1 20 November 15, 2016	November 16.20 16 2546.012.005.1039.01 GGOO STAZT-3 deports to site CG45 STAZT-3 arrives ansite Anticipated work for the day: load soliditied
16406.012.005.1039.01 (and Plating Removal	2546.012.005.1039.01 Cane Plating Resour
0600 START. 3 deports to site de	GGOO STARTES deports to site
0700 START-3 arrives onsite	0645 START-3 acrives ansite
ERRS conducts safety meeting. Respiratory	Anticipated work for the day: load solidified
protection required during line grantuns -	contents of "Rinse Water" fant into yd 3-2
Monitoring equipment colibration:	box. Truck schelolal to arrive to loags or
Area RAE: Will not turn on (827004)	ERRS condats safety meeting: Level C-2
MultiRAE: Oxy sensor failed and will not	PPE during landing operations. Do not load -
calibrate. All other sensors passed - dr	box if material is still hot.
Dofa RAM: Zero in: finted. All sources	box if material is still hot. The Oslight
passed.	OSC: Renty Guiday: 1-Rm; 1-Operator;
Planed operations: Solidity Iquids in sumps	2-ERRS Woor.
0945 Replacement Area NAE + MultikAE -	Weather: SS 7 1/4 humidity Winds.
arrived. Afternated alibration of	a mon from SS41: Expented high of 85
MITERAE: H25 1 HCN failed, All other -	1019 Truck arrived onsite. 1115 Truck left site to se waighted - de
Sensors passed.	1019 Truck arrived onsite
AraRAE: All sensors passed.	1115 Truck left site to se weight - dr
1500 Air Mogitus Demosed from within the	Truck leaded w/ 14 loads at chromatic
fee: lity and placed in office for changing	racid lignid waste.
[[Cas confined adding Calcium Unick I'me	1140 Ind seturned to site. Need To
and mixing up sludge in Rinse Water for & -	rearrange load inside tooiler. Veight for
130 STAKE 3 deports site	distribution was not correct.
1845 START-3 arrives @ Westen Office.	1300 Truk departed site. Final load counts
4	15 totes of chromatic acid liquid waste.
· c d	1525 Transacrised onsite for 2hd load.
	1630 Truck deported for weigh station
- Och	- Alte in the Rain

November 17,20/6 22 November 16. 70/6 OGO START-3 deports to site de de la site de de la site de la la site 20406.012.095.1035.01 CanePlating Zerwal 1706 Truck returned to offlood excess weight. 1740 Truck deports site Updated low! ERRS conducts safety meeting: Loading trailer with dries and super sacks. 14 totes and 3 downs with chromatic Personnel onsite: START-3-Jose Gele; - de 1800 Deport site OSC - Randy Guidey , RM-1; Operator-1; Cabor- 2; Waste Specialist -1 - -1915 Arrive @ Westen Office Wenther: 61 F; Winds from SSE @ 10mph; 82% Humidity; Expected high of 7807 OTIZ Truck arrived. --Il totes w/ chromatic acid liquid. 5 supersacts w gontaminated soil 2 0901 2nd touch arrived ansite 2 1130 2m truck departed site loaded of :-7 superstacts w/ continuinated soil; -gc I tote w/ chromatic acid liquid; 9 boxes of chromium solids I box of sodium hydroxide solids 4 2 drums us contaminated sails 1444 Touck acrived onsite. -1805 loaded truck leaves site. 1830 Depart site 1930 Arrive @ Weston

24 November 18, 2016 Care Plating Renun ZeA-6.012.005,/039.01 0600 Depart to site 0645 Arrive @ site Anticipated work for theday: Load ramaining Containers; benobe nobile office and equipment Wasther: 59° F; Cloud; Wind from NWa 13 mph 58% humidity Aich of 64" F 0715 Truck arrised. 0945 Truck deports site with last load of waste. 1015 TZEQ arrivel mite.

APPENDIX C

WASTE MANIFESTS

			TOR NAME	MANIFEST NUMBER						
		US EPA REGION 6	6 / LANE PLATING SITE	009	776314FLE					
Line	TSD Approval#	Waste Code(s)	Subcategory	UHC'S	NWW or WW	Special Conditions				
.1	ACT58307 /	F019			NWW					
	ACT58307	D002								
		D008								
		D010 P								
		D006 P								
		-D011								
		D007 P								
		F006								

Line	TSD Approval#	Waste Code(s)	Subcategory	UHC'S	NWW or WW	Special Conditions
2	ACT58307 / ACT58307	F019			NWW	
		D002				
		D008				
		D010				
		D006				
		D011				
		D007				
,		F006				

SPECIAL CONDITIONS:

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRATSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49
 Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete.

SIGNA	TURE		TITLE	DATE
Rand Sevo	4	OSC	EPA	Nov 16,2016

	85-7225		91	7631	0 1	
US EPA REGI 5322 BONNIE DALLAS, TX 7	(if different the	an mailing addre	ess)			
		U.S. EPA ID	Number	IED0863	92133	
		U.S. EPA ID		IED3002	02.100	
		U.C. EDA ID	Number			
		0.3. E(A)		OD9913	00484	
	1	11. Total	12. Unit	13.	Waste Code	es
		Qualitity	-	D002	D006	D00
014		43000		D008	D010	D01
9 male	60	HOOK	-	0062	Doole	Doc
Cour	DEP	0800	90 t	Deec	DOID	00
				0002	0006	000
003	DF	1500	P	0000	0010	00
plicable international and nat owledgment of Consent. generator) or (b) if I am a sm Signature	itional governm	nental regulations	пррицу пат s. If export s	shipment and	I am the Prin	nary
		/				
Signature	,	11.	1	M	onth Da	y Y
Signature Inv	no 1	Tuck	eme	an)	lonth Da	6 11 ay Ye
Residue		Partial F	Rejection		Full R	ejection
Manifest Referen	ce Number:	II O EDAV	N. I			
		U.S. EFAIL	Number			
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				1	1	1
osal, and recycling systems)	4.				
osal, and recycling systems 3. anifest except as noted in It		4.				
	10. Contain No. 14] Ord OCC 3 112105 Docurt Contain No. Interpretation of Consent. Interpretation o	10. Containers No. Type 14] TP 112105 Document #: D 3 Sec 15 1 Y C 580 Int are fully and accurately described above plicable international and national government of Consent. Internation or (b) (if I am a small quantity of Signature Im U.S. Port of entry/exit: Date leaving U.S.: Signature Signature	U.S. EPA ID U.S.	U.S. EPA ID Number P 43000 DELIVERY OF SOCIAL STATE STA	U.S. EPA ID Number U.S. EPA ID Number U.S. EPA ID Number COD9913 10. Containers	U.S. EPA ID Number U.S. EPA ID Number COD991300484 10. Containers No. Type Quantity Wt./vol. 13. Waste Cod Quantity Wt./vol. 13. Waste Cod Quantity Wt./vol. 13. Waste Cod Quantity Wt./vol. 14. Total Quantity Wt./vol. 15. Waste Cod Quantity Wt./vol. 15

HHM

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LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

			GENERATO	R NAME LANE PLATING SITE	M	MANIFEST NUMBER				
		09776315FLE								
Line	TSD Approval#	Waste Code(s)		Subcategory	UHC'S	NWW Special or WW Conditions				
1	ACT58307 /	F019	0011			NWW				
	ACT58307	D002	500a							
		D008	F006							
		D010								
		D006								
Zhu	AC 58 30	7/ D011	F019	0006		12114142				
3	ACT 5830	7 D007	0003			Dun				
-		F006	0010							

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRATSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49

Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that helieve that the information I have submitted is true, accurate and complete.

/ Vedenature	05 CLE	MONTE
O CONTRACTOR OF THE PROPERTY O		116/10

Pleas	e print	or type. (Form designed	ed for use on elite (12-pitch) typewriter.)								. OMB No	. 2050-0039			
	WA	STE MANIFEST	TXD007336571	2. Page 1 of 1	3. Emer	gency Respons 1-888-7	e Phone '85-722 :		Tracking N		L6 I	FLE			
		US EPA REGIONAL 1445 ROSS AV DALLAS, TX75	ON 6 / LANE PLATING SITE VENUE, STE 1200 5202		US E		ON 6/ VIEW F		TING S	ITE					
Π	4 Han	Smith Systems	e Transportation					U.S. EPA ID		ED9863	92122				
	7. Tran							U.S. EPA ID		LD3000	102 100				
Ш		ASTE MANIFEST TXD007336571 nerator's Name and Mailing Address US EPA REGION 6 / LANE PLATING SITE 1445 ROSS AVENUE, STE 1200 DALLAS, TX 752002 rator's Phone: (214) 232-7134 reparter Company Name Smith Systems Transportation ansporter 2 Company Name Smith Systems Transportation ansporter 2 Company Name Signated Facility Name and Site Address CLEAN HARBORS DEER TRAIL LANDFILL 108555 E US HIGHWAY 36 DEER TRAIL, CO 90105 lity's Phone: (970) 386-2293 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 1. RQ, UN1755, Waste Chromic acid solution, 8, PGII [Item 2. U.S. DOT WASTE ENVIRONMENTAL POWER AND SUBSTANCES SOLID AND S							U.O. EFA ID NUITION						
		CLEAN HARB 108555 E US I DEER TRAIL, /s Phone: (970)	ORS DEER TRAIL LANDFILL HIGHWAY 36 CO 80105 386-2293					U.S. EPA ID		OD9913	00484				
	9a. HM	9b. U.S. DOT Descriptio and Packing Group (if ar	n (including Proper Shipping Name, Hazard Class, ID Number ny))	r,		10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.	13	. Waste Cod	les			
TOR	x	1 RQ, UN1755,	Waste Chromic acid solution, 8, PGII	[Item 1.14]			TP		Р	D002	D006	D007			
GENERATOR		2. 13.13007	7 large w			011		34000		D008	D010	D011			
GE	X	COUTAME	Substances Solid Luc NATED SOLIDS SOLID PR	ig Sin (In	en l.c	005	BA	5800	P	F006	Fab9	F019			
		3.													
		4.					-								
	14. 5	pecial Handling Instruction	ns and Additional Information Project	t Number 1	12105	Docur	ment #: E	132319							
		a) ERC#1	11 ACT 58290 SX Sq	er Sack											
		Exporter, I certify that the I certify that the waste mir	rded, and are in all respects in proper condition for transport all contents of this consignment conform to the terms of the attact nimization statement identified in 40 CFR 262.27(a) (if I am a la	iccording to applic thed EPA Acknow arge quantity gen	cable inte ledgment erator) or	rnational and na t of Consent	tional govern	mental regulations	nipping name i. If export sh	e, and are cla ipment and I	ssified, pac am the Prin	kaged, mary			
1	Gene	erators/Offerors Printed/Ty	уреа мате	Sig	nature					Mo	onth Day				
I.LN				Export from	U.S.	Port of e						100			
	_					Date leav	ving U.S.:								
TR ANSPORTER	Trans	sporter 1 Printed/Typed Na	yne	Sig	nature					Mo	nth Da	y Year			
NSP	Tran	sporter 2 Printed/Typed Na	ame	Sig	gnature					1	וווו	16			
TRA										IVIC	onth Da	y Year			
1	-	Discrepancy													
	18a.	Discrepancy Indication Spa	ace Quantity Type		L	Residue Manifest Referen	oo Number	Partial R	ejection		Full Re	ejection			
DESIGNATED FACILITY	18b.	Alternate Facility (or General	rator)		IV	THE STATE OF THE S	oe number:	U.S. EPA ID) Number						
FD FA	Faci 18c.	lity's Phone: Signature of Alternate Faci	ility (or Generator)								Month D	av Voc			
GNAT	10	Hazardaya Wasta Danad M								1	nonur Di	ay Year			
DESI	19.	nazaruous vvasie Report M	flanagement Method Codes (i.e., codes for hazardous waste tr 2.	reatment, disposa	al, and re	cycling systems)	4.							
1	20	Designated Facility O	20024												
	Prin	Designated Facility Owner of ted/Typed Name	or Operator: Certification of receipt of hazardous materials cov		ifest exce	ept as noted in It	em 18a					,,			
1					o. and o					1	fonth Da	y Year			
EF	PA For	m 8700-22 (Rev. 3-05)	Previous editions are obsolete.			DES	IGNATED	FACILITY TO	DESTINA	ATION ST	ATE (IF R	EQUIRED)			

MANIFEST NUMBER

LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

		USEP	AREGION 6 / LAN	0097	009776316FLE				
Line	TSD Approval#	Waste Code(s)		Subcategory	UHC'S	NWW Special or WW Conditions			
1	ACT58307 /	F019	0006			NWW			
ACT58307 / ACT58307	D002	0611							
		D008	0007						
		D010	F006						

SPECIAL CONDITIONS:

Strateg Protect

Item =

Item !

Item I

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40

F006

- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)

GENERATOR NAME

- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRATSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49

Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete.

SIGNATURE	TITLE	DATE

1		ned for use on elite (1						-			ed. OMB N	
	ORM HAZARDOUS STE MANIFEST	1. Generator ID Number		2.	2	Emergency Response 1-888-7	85-722	5 00	st Tracking I		13	FLE
	1445 ROSS A	NON 6 / LANE INVENUE, STE 175202			U 5	nerator's Site Address IS EPA REGI 322 BONNIE DALLAS, TX 7	ON 6 /	LANE PL ROAD	ATING S	SITE		
6 Trans	mith JV	stems Trai	nsportation	on				U.S. EPA II	986	382	133	
								U.S. EPA II	Number			
	CLEAN HARE 108555 E US DEER TRAIL,	ORS DEER THE HIGHWAY 36 CO 80105	RAIL LANDFILL	-				U.S. EPA II		OD991	300484	
9a. HM	13101	on (including Proper Ship	pping Name, Hazard Class	ss, ID Number,		10. Contair No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	10	3. Waste Co	des
*	1. UN3077, Was	ste Environmen	m 1.2]	s substance	es, solid, C		- CFC		PO	D011	F996	F019
Xe	² UN3262, Water n.o.s. (SODIU	sie Corrosive s M HYDROXIDI	olid, basic, inoq E/CADMIUM), 8	rganic, Ø 3 , PGII (Item	1.3]		-CF-		φ?	D006	F006	F019
х					es, solid,	00 7 00 660	ero BA	67000	Р	F006	F009	F019
х					es, liquid,	0000	TP		Р	D006	D007	F006
	,			an 1.01								
15. G	1) ERG#171; 2) ERG#154; ENERATOR'S/OFFERO arked and labeled/placar	ACT58296 USC- ACT58297 USC- R'S CERTIFICATION: Indeed, and are in all respectively	I hereby declare that the cts in proper condition fo	Project Nu	4) El	RG#171; ACT RG#171; ACT	58300 U	SC- XX	15	and are els	assified, paci	kaged,
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Plea	se prir	nt or type. (Form designed for use on elite	(12-nitch) typouritan									
1	UNIF	FORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number		22. Page	23	R Manifes	t Tracking Nur		m Approved	. OMB No.	2050-0039
	24. G	enerator's Name	TXD007336571		2 of		. mam.oo		76313F	LE		
		US EPA REGION 6 / LANE PLA 5322 BONNIE VIEW ROAD DALLAS, TX 75241	TING SITE									
	25. T	Transporter Company Name						U.S. EPA ID	Number			
								U.S. EPA ID	Number			
	26. 1	Transporter Company Name						U.S. EPA ID	Number			
	27a.	27b. U.S. DOT Description (including Proper S and Packing Group (if any)										
	HM				1000000	ntainers		29. Total Quantity	30. Unit	31	. Waste Cod	les
П	*	5) UN3260, Waste Corrosive (solid, acidic, inorganic		No.		уре		171.3701.			
		1.2), 0, 10	in [item 1.16]			•	FCO		R	D007	F006	F0 19
Н		6) UN3077, Waste Environme	ntally hazardous substa	nces colid		+			-		2	
		2.5.11	20)			c	WE .	-	PO	D008	8	
		1) OUS SUBSTANCES	EUVERON MENT	elly HAZARD						~~	Const	Enic
		Patt	, N.O.J.Ch	romium) q	1-1-1		_	350	P	CEO 1	Reol	ruij
5		HE UN3077, WASTE	ENVERON ment	ally	009	CF	= 1	330	1			
GENERATOR	X	HAZARDOUS SID	stances Solid, 1	J.65	_					Foot	F00 9	6019
ENE	9	1113767 11105	11.9		007	0	FO	600	P			
9	V	Thorquis (SODEUM	HIOROXIDELS COLD	D BASIL						Dools	Fords	F014
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	32. 5	Special Handling Instructions and Additional Info EPC#154: ACT58308 USC-	rmation			1					1	
			,	ACT58318 USC		_43	i) en	64171	ACT !	56432	ar	CYB
+	8)	erc#171 ACT 58218	9x22 d) E	rat 154 act	SB 247	1		27B				CIB
E	33. T	Transporter Acknowledgment of Receipt of ed/Typed Name	of Materials	Cianal		L. Le						
TRANSPORTER	rime	GU/ 19PGU INAITIG		Signature						N	onth Da	y Year
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IRA	Printe	ed/Typed Name		Signature								
-	35 D	Discrepancy									lonth Da	y Year
등												
FA												
TEL	36. H	lazardous Waste Report Management Method Co	des (i.e., codes for hazardous waste	e treatment, disposal and r	ecycling syster	ns)						
DESIGNATED FACILITY												
DE												
EPA	Form	8700-22A (Rev. 3-05) Previous editions	are obsolete.		DESIGN	IATED	FACILI	TY TO DE	STINATU	ONLOW		
										ON STATE	(IF REC	(UIRED)

LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

			GENERATOR NA	ME TO THE TOTAL		ST NUMBER			
		IIS EDA	REGION 6 / LANE		0097	76313FLE			
		USLIA	REGION OF ENTE			NWW Spec	cial		
Line	TSD Approval#	Waste Code(s)		Subcategory	UHC'S	or WW Condit	tion		
4	ACT58296 /	F019	3			NWW			
	ACT58296	D014							
		F000							
	<u>e /</u>	1000							
Line	TSD	Waste		Subcategory	UHC'S	NWW Spec			
Lille	Approval #	Code(s)		Subcategory					
2	ACT58297 /	F019				NWW			
	ACT58297	D006							
		F006	P						
Line	TSD	Waste		Subcategory	UHC'S	NWW Spe or WW Condit			
	Approval #	Code(s)							
3	ACT58298 / ACT58298	F019				NWW			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	F009							
		F006							
Line	TSD Approval#	Waste Code(s)		Subcategory	UHC'S	NWW Spe			
4	ACT58300 /	F019				NWW			
	ACT58300	D006							
		D007							
		F006							
	TSD	Waste		Subcategory		ADAMA CO-			
Line	Approval#	Code(s)		Subcategory	UHC'S	NWW Spec or WW Condit			
3	ACT58308	F019				NWW			
7	ACT58308	D007							
	ACT 58432	F006							
Line	TSD Approval #	Waste Code(s)		Subcategory	UHC'S	NWW Spec			
8	ACT58316	±100€	Food Forg			NWW			
	ACT 58248		100 1001						
19	ACT 582°	97	0006						
1			Fools						
1			Fag			Nun			

DATE

LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

SPECIAL CONDITIONS:

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRATSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49

Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete.

SIGNATURE	TITLE	
Kant Such FPA	OSE FPA	11/17/16
WASTE STREAMS IDENTIFIED SPECIAL CONDITION A		

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION B

I certify under penalty of law that I personally have examined and am familiar with the waste and that lab pack contains only wastes which have not been excluded under appendix iv to 40 CFR 268. I am aware that there are significant penalties for submitting a false certification, including fine and

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION F

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION G

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic, and that the underlying hazardous constituents, as defined in 268.2 have been treated on site to the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION I

I certify under penalty of law that I personally have examined this contaminated soil and it [DOES/DOES NOT] contain listed hazardous waste and [DOES/DOES NOT] exhibit a characteristic of hazardous waste and requires treatment to meet the soil treatment standards as provided by 268.49(c).

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION J

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

1		FORM HAZARDOUS	Generator ID Number	(typewriter.)	2. Page 1 of	3. Emergency Re	popos Dh	14.00	Foi	rm Approved	d. OMB No. 2050-0
	N	ASTE MANIFEST Penerator's Name and Mailin	TXD007336571		1	1-8	38-785-7	225 1	st Tracking	7631	0 FIF
	Gene	US EPA REG 1445 ROSS A DALLAS, TX	610N 6 / LANE PLATI AVENUE, STE 1200 75202 4) 232-7134	ING SITE		Generator's Site Ad US EPA R 5322 BONI DALLAS, 1	EGION (6 / LANE PL	ress)		0 1 21
			ns Transportation					U.S. EPA I		IEDO061	90400
	7. Tr	Advanced Che	emical Transport, Inc	(00)				U.S. EPA II	Number	IED9863	
	8. De	esignated Facility Name and	d Site Address	(00)				U.S. EPA II		AR0000	70540
	Facili	9131 East 96 Henderson, C	chnical Solution ith Avenue O 80640 89 4827					U.S. EPA II		OD9805	91184
	9a.	9b. U.S. DOT Description	on (including Proper Shipping Nam	ne, Hazard Class, ID Number,		10.0	ontainers	11. Total	12 Unit	Γ	
	НМ	and Packing Group (if a	ny))			No.	Тур		12. Unit Wt./Vol.		Waste Codes
GENERATOR	X	articles], 8 (6.1	Waste Mercury [cont 1), PGII [Item 1.21]	tained in manufact	ured		DF		P	D009	
ENER		2.				00	1	0009			
5											
		3.									
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	14. S	pecial Handling Instructions	s and Additional Information								
		Exporter, I certify that the collicertify that the waste minimum	R'S CERTIFICATION: I hereby de ded, and are in all respects in propontents of this consignment conformization statement identified in 40	eclare that the contents of this of the condition for transport accounts to the terms of the attached	I EPA Acknowled	e fully and accurately ple international and	iational gover	ove by the proper sh	pping name, If export ship	and are class ment and I ar	ified, packaged, m the Primary
	Gene	rayrs/Offerors Printed/Typ	ed Name		Signal		/ /	-/		Month	Day Year
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	-	sporter signature (for export ansporter Acknowledgment	s only):		- Export from 0.c		aving U.S.:				
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1		screpancy									
	18a. D	iscrepancy Indication Space	e Quantity	Туре		Residue		Partial Reje	ection		Full Rejection
1						Manifest Refere	nce Number:				
E	18b. Al	ternate Facility (or Generate	or)					U.S. EPA ID N	umber		
FAC		's Phone:									
ATEL	18c. Si	gnature of Alternate Facility	(or Generator)							Month	Day Year
DESIGNATED FACILITY	19. Ha	zardous Waste Report Mana	agement Method Codes (i.e., code	es for hazardous waste treatmo	ent, disposal, ar	nd recycling systems)				
3	1.		2.		3.	- roofoling systems		4.			
11:	20. Des	signated Facility Owner or C	Operator: Certification of receipt of	hazardous materials covered	by the manifest		10				
1	Printed	/Typed Name	, see a second of receipt of	mazardous materials covered	Signatu		em 18a			Month	Day Year
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LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

		1	GENERATOR NAME	MANIFES I NUMBER					
	US EPA REGION 6 / LANE PLATING SITE 009776310FLE			76310FLE					
Line	TSD Approval#	Waste Code(s)	Subcategory	UHC'S	NWW or WW	Special Conditions			
1	ACT58314 /	D009	High Mercury Inorganic Subcategory		NWW				

SPECIAL CONDITIONS:

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)

CENEDATOD NAME

- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRATSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49

Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete.

SIGNATURE	TITLE	DATE
Land Suid	OSC EPA	11/17/16

WASTE STREAMS IDENTIFIED BY SEECIAL CONDITION A

I certify upper penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION B

I certify under penalty of law that I personally have examined and am familiar with the waste and that lab pack contains only wastes which have not been excluded under appendix iv to 40 CFR 268. I am aware that there are significant penalties for submitting a false certification, including fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION F

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION G

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic, and that the underlying hazardous constituents, as defined in 268.2 have been treated on site to the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION I

I certify under penalty of law that I personally have examined this contaminated soil and it [DOES/DOES NOT] contain listed hazardous waste and [DOES/DOES NOT] exhibit a characteristic of hazardous waste and requires treatment to meet the soil treatment standards as provided by 268.49(c).

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION J

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

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	Ext	porter, I certify that the o	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper cor contents of this consignment conform to to mization statement identified in 40 CFR	the terms of the attached	ruing to applica LEPA Acknowle	ible international an Idament of Consent	d national governi	mental regulations.	ipping name, If export shi	and are cla	issified, pack am the Prin	kaged, nary
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	20. Desig	nated Facility Owner or	Operator: Certification of receipt of haza	rdous materials covered	by the manifes	st except as noted i	n Item 18a					
	Printed/T	yped Name			Signa		n Acin Toa			Mo	onth Day	Year
EPA	Form 87	00-22 (Rev. 3-05) Pr	revious editions are obsolete.									

ON	int or type. (Form designed for use on elite (FORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Ma	nifest Tracking Nur		m Approved.	OMR No.	2050-00
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	US EPA REGION 6 / LANE PLAT 5322 BONNIE VIEW ROAD DALLAS, TX 75241	FING SITE							
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26.	Transporter Company Name				U.S. EPA ID	Number			
27a. HM	27b. U.S. DOT Description (including Proper Shi and Packing Group (if any)	pping Name, Hazard Class, ID Number,	28. Conta		29. Total Quantity	30. Unit	31	. Waste Co	des
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	7) RQ, UN1755, Waste Chrom	ic acid solution, 8 , PGII [Item 1.14]	001		0		D002	D006	D007
Х			0018	DF	9000	P	D008	D010	-
Х	6) RQ, UN1755, Waste Chrom	ic acid solution, 8 , PGII [Item 1.15]					D002	D006	D007
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	9) RQ, UN1755, Waste Chrom	ic acid solution, 8 , PGII [Item 1.15]	0,0,0				D002	D006	D007
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х	10) RQ, UN1830, Waste Sulfur	ic acid, 8 , PGII [Item 1.17]	009	DF	1350	Р	D002		
х	11) RQ, UN1830, Waste Sulfun	ic acid, 8 , PGII [Item 1.17]	007	DF	0415	Р	D002		
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DATE

LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

SPECIAL CONDITIONS:

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRA TSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49

Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete.

SIGNATURE	TITLE	
amy Surch	OSL EPA	11/17/16

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION A

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I have submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION B

I certify under penalty of law that I personally have examined and am familiar with the waste and that lab pack contains only wastes which have not been excluded under appendix iv to 40 CFR 268. I am aware that there are significant penalties for submitting a false certification, including fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION F

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION G

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 286.40 to remove the hazardous characteristic, and that the underlying hazardous constituents, as defined in 268.2 have been treated on site to the 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION I

I certify under penalty of law that I personally have examined this contaminated soil and it [DOES/DOES NOT] contain listed hazardous waste and [DOES/DOES NOT] exhibit a characteristic of hazardous waste and requires treatment to meet the soil treatment standards as provided by 268.49(c).

WASTE STREAMS IDENTIFIED BY SPECIAL CONDITION J

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

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Transporter 1 Company Name Smith System	ns Transportation					U.S. EPA I		D986382	133
7. Transporter 2 Company Nam						U.S. EPA II			
B. Designated Facility Name an	nd Site Address					U.S. EPA II	D Number		
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LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

Line	TSD Approval#	Waste Code(s)	Subcategory	UHC'S	NWW Special or WW Conditions
5	ACT58305 /	D002			NWW
	ACT58305	F008			
		D003			
		D006			
		D007			
		D011			

Line	TSD Approval#	Waste Code(s)	Subcategory	UHC'S	NWW or WW	Special Conditions
6	ACT58306 /	D003			NWW	
	ACT58306	P106				

Line	TSD Approval#	Waste Code(s)	Subcategory	UHC'S	NWW Special or WW Conditions
7	ACT58313 / ACT58313	D001			NWW
SPECIA	L CONDITIONS:	and the same of th	Decla 8311		Num

SPECIAL CONDITIONS:

A. Waste Requiring No Further Treatment

- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40
- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRATSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- J. Certification for contaminated soil treated in accordance with 40 CFR 268.49 Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete.

SIGNATURE	TITLE	DATE
& am Suil	OSC EPA	11/18/11/0

Plea	ase pri	int or type. (Form design		oitch) typewriter.)							d. OMB No	. 2050-003
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	O. He		s Transportation					U.S. EPA II		ED986	382133	
	7. Tra	ansporter 2 Company Name						U.S. EPA ID	Number			
	8. De	signated Facility Name and						U.S. EPA ID	Number			
	Facili	Cincinnati, Of	s - Spring Grove F Brove Avenue 1 45232 181-5738	Resource Recovery Inc					0	HD0008	316629	
	9a. HM	9b. U.S. DOT Description and Packing Group (if a	on (including Proper Shippin	g Name, Hazard Class, ID Number,		10. Contai	1	11. Total Quantity	12. Unit Wt./Vol.	13	3. Waste Coo	les
1 % 1	x	1 RQ, UN1993,	Waste Flammah	ole liquids, n.o.s. (MET	HYL	NO.	Type DM	Quantity	Р	D001	D005	D007
GENERATOR		ETHYLKETO	ONE,BARIUM), 3	, PGIII [Item 1.9]		002		0850		F005		
GEN	x	2. RQ, UN1993,	Waste Flammat ONE,BARIUM), 3	ole liquids, n.o.s. (MET	HYL		TP		Р	D001	D005	D007
		3.	DIVE,DARIUWI), 3	, PGII [item 1.9]		001		2950		F005		
		3.										
		4.						3 1				
	14. 8	Special Handling Instruction	ns and Additional Informatio	n Project	Number 1	12105 Docum	nent #: E	0132310				
		2) ERG#128;	ACT58302 USC ACT58302 USC	1×330								
		marked and labeled/placa Exporter, I certify that the I certify that the waste min	rded, and are in all respects contents of this consignmen imization statement identifie	ereby declare that the contents of this in proper condition for transport acct toonform to the terms of the attached in 40 CFR 262.27(a) (if I am a larger	cording to applic ed EPA Acknowl ge quantity gene	cable international and nat edgment of Consent. erator) or (b) 1 f I am a sma	ional govern	mental regulations	nipping name s. If export sh	, and are clipment and	assified, pac I am the Prin	kaged, nary
T'L +	1	retor's/Offeror's Printed/Ty Conductor nternational Shipment	Import to U.S.	y For EP	Export from U	LS Port of er	ntry/exit:	line	9	11	onth Day	
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1	-	Discrepancy Indication Spa	ce 🔲 -									
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7	18b.	Alternate Facility (or General	ator)			Manifest Reference	e Number:	U.S. EPA ID	Number			
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DESIGNATED FACILITY	Facil 18c.	lity's Phone: Signature of Alternate Facil	ity (or Generator)							N	fonth Da	y Year
GNA	10 L	Hazardous Wasta Report Ma	anagement Method Codes (i.e., codes for hazardous waste trea	tmont disease	and recycling cycles -1				1_		1
DES	1.	nazardous viasie Nepuit Ma	2.	no., codes for nazardous waste trea	3.	, and recycling systems)		4.				
1	20. [Designated Facility Owner o	r Operator: Certification of r	eceipt of hazardous materials cover	ed by the manif	fest except as noted in Ita	m 18a					
		ed/Typed Name	, and the second of the	The standard materials obver		nature	10a			N	Ionth Day	Year
1	A Form	m 8700-22 (Rev. 3-05) F	Provious aditions are obs	coloto			1985	454313				

LAND DISPOSAL RESTRICTION NOTIFICATION FORM FOR WASTES SUBJECT TO THE TREATMENT STANDARDS FOUND IN 40 CFR 268

	GENER	MANIFEST NUMBER					
	US EPA REGION	009776309FLE					
TSD Approval#	Waste Code(s)	Subcategory	UHC'S	NWW or WW	Special Conditions		
ACT58302 /	F005	n i person transferen um significant personalitat		NWW			
ACT58302	D005						
	D001						
	Approval #	US EPA REGION TSD Waste Approval # Code(s) ACT58302 / F005 ACT58302 D005	Approval # Code(s) Subcategory ACT58302 / F005 ACT58302 D005	US EPA REGION 6 / LANE PLATING SITE 0097 TSD Waste Code(s) Subcategory UHC'S ACT58302 / F005 ACT58302 D005	US EPA REGION 6 / LANE PLATING SITE		

Line	TSD Approval#	Waste Code(s)	Subcategory	UHC'S	NWW Special or WW Conditions
2	ACT58302 /	F005	AND THE RESERVE OF THE PARTY OF	A Later Land A A Sept.	NWW
	ACT58302	D005			
		D001			
		D007			

SPECIAL CONDITIONS:

- A. Waste Requiring No Further Treatment
- B. Lab Pack Waste Qualifying for Alternative Treatment und 40 CFR 268.40

D007

- C. Hazardous Waste Debris subject to standard treatment requirements, 40 CFR 268.40
- D. Hazardous Waste Debris subject to alternative standards in 40 CFR 268 (list contaminants)
- E. Waste Qualifying for Exemption and not subject to Land Disposal Restriction (Explain)
- F. Characteristic waste that are subject to the treatment standards in 268.40 (other than those expressed as a required method of treatment) that are reasonably expected to contain underlying hazardous constituents as defined in 268.2(i); are treated on-site to remove hazardous characteristic; and are sent off-site for treatment underlying hazardous constituents (list constituents)
- G. Characteristic wastes that contain underlying hazardous constituents as defined 268.2(i) that are treated on-site to remove the hazardous characteristic and the underlying hazardous constituents to levels in 268.48 Universal Treatment Standards.
- H. For Chemical Manufacturers, Petroleum Refineries, Coke By-Product Facilities and RCRATSDF handling wastes subject to 40 CFR 61 subpart FF ONLY. This waste is "Controlled Benzene Waste" which is subject to the notification requirements of 40 CFR subpart FF.
- I. Certification for contaminated soil indicating the presence or absence of characteristic and / or listed hazardous wastes.
- Certification for contaminated soil treated in accordance with 40 CFR 268.49

Waste analysis is attached where available; otherwise the information contained herin is based upon my thorough knowledge of the waste(s).

I hereby certify that I believe that the information I have submitted is true, accurate and complete.

TITLE	DATE
OSC EPA	
	OSC EPA

A	NON-HAZARDOUS 1. Generator ID Number	2 Page 1 o	f 3. Emergency Respon	se Phone	4 Waste 1	racking Nu	mher		
1	NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number TXD007336571	1		85-7225	" Waste	ruoking re			
11	5. Generator's Name and Mailing Address		Generator's Site Addre		than mailing add	ress)			
	US EPA REGION 6 / LANE PLATING SITE 1445 ROSS AVENUE, STE 1200 DALLAS, TX 75202 Generator's Phone: (214) 232-7134 6. Transporter 1 Company Name		US EPAREGION 5322 BONNIE V DALLAS, TX 752	1EW ROA	D				
	Smith Systems Transportation				U.S. EPA II	Number 098638:	2133		
	7. Transporter 2 Company Name				U.S. EPA ID				
1	Advanced Chemical Transport, Inc (CO) 8. Designated Facility Name and Site Address					R00007	0540		
	TWIN ENVIRO SERVICES - PHANTOM LANDFILL 2500 FREMONT COUNTY ROAD 67 PENROSE, CO 81240 Facility's Phone: 719-372-6671				U.S. EPA ID	Number 200020	3454		
	Waste Shipping Name and Description		10. Con	tainers	11. Total	12. Unit			
1	1		No.	Туре	Quantity	Wt./Vol.			
GENERATOR	Non-Hazardous Liquid (LATEX PAINT) [Item 1.19	0]	002	DMG	0190	P			
- GEN	2.								
	3.								
	4.								
	13. Special Handling Instructions and Additional Information	umber 112108	5 Document#	D40004	•				
	1) UST					pping name	and are classifi	ed nacks	aned
	marked and labeled/placarded, and are in all respects in proper condition for transp	ort according to appli	cable international and na	tional governr	nental regulations	1	Month	Day	Year
V	15. International Shipments Import to U.S.	Export from I	J.S. Soft of ea		uco	7		18	1/6
Z	Transporter Signature (for exports only):		Date leav	,					
H.	16. Transporter Acknowledgment of Receipt of Materials Transporter Defined/Typed Name	«Sic	nature				Veren	D.	
SPORIER	Jimmy Jaks		fic	1			Month	Day IR	Year /
HANS	Transporter 2 Printed/Typed Name	Sig	majure 				Month	Day	Year
	17. Discrepancy 17a. Discrepancy Indication Space Quantity Typ	pe	Residue		Partial Rej	ection		Full Rejec	ction
	17b. Alternate Facility (or Generator)		Manifest Reference	Number:	U.S. EPA ID	Number			
3	Facility's Phone: 17c. Signature of Alternate Facility (or Generator)						Month	Day	Year
DESIGNA									
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by								
1	Printed/Typed Name	Sig	nature				Month	Day	Year

lea	se print or type. (Form designed for use on elite (12-pitch) typewriter.)					For	m Approved	. OMB No.	2050-0039	
1	UNIFORM HAZARDOUS WASTE MANIFEST TXD 00733(657)	2. Page 1 of 3. Em	ergency Respons		4. Manifest				FIE	
					than mailing addre		OIN			
	Plating Site	a see h	SZO	A ICE	NNIE WILL	VILLE	VO.	1 +/00/	31,0	
	SEPA REGION 6 LA PLATING SITY Generator's Phone (214) 232-7134 Dailas TX 752 6. Transporter 1 Company Name	OZ	DA DA							
	U.S. EPA ID Number									
	7. Transporter 2 Company Name				U.S. EPA ID		1630	212		
	Designated Facility Name and Site Address				IIS EPAID	Number				
	108575 E US Highway 36									
	Facility's Phone: Deer Trail Co. 80165		970)38	W-200	(66	Dag	1300	484		
	9a 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number		10, Conta		11. Total	12. Unit		Waste Code	es	
	HM and Packing Group (if any))	A 1 4 14	No.	Туре	Quantity	Wt,/Vol.			6	
GENERATOR	RQ 1 UN 3077 WASTE ENVIRON MENT HAZARDOUS, Substances Sold, N.O.S (Silver) 9 PGIII [Trem 1,2]	MCCT				0	DOLL	F006	F019	
NER!	(Silver) 9 Pall [Iron 1.2]		007	CF	03000	P				
- GE						3.1911				
	3.			 						
					19	18				
	4.			-	1 1					
	14. Special Handling Instructions and Additional Information		1							
	1) ERG# 171 ACT 59296									
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this of marked and labeled/placarded, and are in all respects in proper condition for transport accordance.	rding to applicable int	ernational and nat	scribed abov ional govern	e by the proper sh mental regulations.	ipping name If export sh	e, and are cla ipment and I	am the Prim	aged, ary	
	Exporter, I certify that the contents of this consignment conform to the terms of the attached I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large	e quantity generator) of Signature	or (b) (if I am a sm	all quantity g	enerator) is true.	/	Mc	onth Day	Year	
	Generally Offeror's Printed/Typed Name Kam Muida, For FP/	1 1/	anul.	W	11ve	1	16	1 18	116	
*	100	Export from U.S.	Port of er		0					
S INT'L			Date leav	ring U.S.:						
RTE	Transporter 1 Printed/Typed Name	Signature	10				Mo I s	onth Day	Year	
SPO	Transporter 2 Printed/Typed Jame	Signature					Me	onth Day	Year	
TR ANSPORTER	Transport. 2.									
1	18. Discrepancy		Residue		Partial Re	eiection		Full Re	iection	
	18a. Discrepancy Indication Space Quantity L Type			a Number						
>	18b. Alternate Facility (or Generator)		Manifest Reference	e Number.	U.S. EPA ID	Number				
DESIGNATED FACILITY	TOD. Attended to 3									
DFA	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)						. 1	Month Da	ay Year	
NATE		mont disposal and r	ecycling systems)							
ESIG	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment of the codes (i.e., codes for hazardous waste tr	3.	boyoning oyotomo,		4.					
0	a use useful af bayardaya matariah anyang	d by the manifest exc	ept as noted in Ite	em 18a						
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered Printed/Typed Name	Signature						Month D	ay Year	
1	A Form 8700-22 (Rev. 3-05) Previous editions are obsolete.		DES	IGNATED	FACILITY TO	DECT	IATION C	TATE (IT	250111555	
ED	7 0700 22 (Rev 3-115) Previous euitions are obsolete.		DES	MAIL	HOILITT	אוופשעי	C MUITA	MICHE	TEQUIRED	

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION FORM LDR-1 MANIFEST NO 009776110 F1 SECTION III. CALIFORNIA LIST WASTES COLUMN 1: COLUMN 2: COLUMN 3: COLUMN 4: WASTE CODE / SUBCATEGORY LINE ITEM WASTEWATER/ HANDLING CODE SEE MANIFEST **NON-WASTEWATER** Hazardous waste containing one or more of the following [] WW [] Non-WW California List constituents: [] ALL CALIFORNIA LIST CONSTITUENTS [] Liquids with nickel greater than or equal to 134 mg/l [] Liquids with thallium greater than or equal to 130 mg/l I Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES) COLUMN 1: COLUMN 4: COLUMN 2: COLUMN 3: HANDLING CODE LINE ITEM WASTE CODE / SUBCATEGORY WASTEWATER/ SEE MANIFEST NON-WASTEWATER []WW Mon-WW 5 []WW Non-WW []WW []Non-WW 5 6 []WW []Non-WW 3 5 6 []WW []Non-WW 3 5 6 [] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET. 1 CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

-uidag Fal EpA Date:

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA CWA SYSTEM means a certifalized wasteward additional discharge the treated effluent to the local sewer system. Examples of CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA facility would treat organic or inorganic aqueous Matter and the facility would treat organic or inorganic aqueous Matter and the facility would treat organic or inorganic aqueous Matter and the facility would treat organic or inorganic aqueous Matter and the facility would treat organic or inorganic aqueous Matter and the facility would treat organic or inorganic aqueous Matter and the facility would treat organic or inorganic aqueous Matter and the facility would treat organic organic organic aqueous Matter and the facility would treat organic organic organic aqueous Matter and the facility would treat organic or system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-CWA-EQUIVALENT STSTEW means a Zero discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a discharge facilities treat nazaruous wastes using CVVA-equivalent" treatment methods means biological treatment for organics, alkaline sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline sewer or water body (e.g., spray ingulation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]

APPENDIX D POLLUTION REPORTS

U.S. ENVIRONMENTAL PROTECTION AGENCY POLLUTION/SITUATION REPORT Lane Plating Works - Removal Polrep Initial Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region VI

Subject: POLREP #1

Lane Plating Works

A6MS Dallas, TX

To: Reggie Cheatham, EPA

Anthony Buck, TCEQ

Ronnie Crossland, USEPA Region 6

Mark Hayes, USEPA R6

From: William Rhotenberry, FOSC

Date: 4/27/2016 Reporting Period: April 2016

1. Introduction

1.1 Background

Site Number: A6MS Contract Number: D.O. Number: Action Memo Date:

Response Authority: CERCLA Response Type: Time-Critical

Response Lead: EPA Incident Category: Removal Assessment

NPL Status: Non NPL Operable Unit:

 Mobilization Date:
 4/12/2016
 Start Date:
 4/12/2016

 Demob Date:
 4/14/2016
 Completion Date:
 4/14/2016

CERCLIS ID: TXN000605240 RCRIS ID:

ERNS No.: State Notification:

FPN#: Reimbursable Account #:

1.1.1 Incident Category

1.1.2 Site Description

1.1.2.1 Location

The site is located in Dallas, Dallas County, Texas (32.6878557°N latitude, 96.7692897°W longitude) within a mixed commercial/residential area. The site encompasses approximately 4.655 acres according to the Dallas County Appraisal District.

A barbed wire fence and locked chain-link fence surrounds the property, and the building is locked with the windows boarded up; there is no access possible except by key at the locked gate. Site topography and surface water drainage appears to slope to the south-southeast.

1.1.2.2 Description of Threat

Lane Plating is an abandoned electroplating facility that currently contains an unknown number of drums, tanks, and vats containing electroplating wastes that ceased operations in 2015. After filing bankruptcy in late 2015, Lane Plating is now controlled by Stag Management, Inc. a court-appointed trustee. Electroplating process wastes include acids, bases, flammables, oxidizers, chromium-containing solids (sludge), and liquids, and other non-hazardous solids and liquids.

The site presents concerns in regards to public health and the environment. Based on the site history and current site conditions. The chemicals utilized in the electroplating process contain hazardous substances, contaminants and/or pollutants that potentially have impacted on-site soils. The contaminants of concern for the site are, but not limited to, cyanides, chromium, cadmium, lead, arsenic as well as other non-hazardous substances associated with electroplating processes.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

On November 4, 2015, the Texas Commission on Environmental Quality (TCEQ) conducted a preliminary investigation of the site.

On November 19, 2015, TCEQ representatives met with their Emergency Response Contractor (SWS) at the site to develop a scope of work/work-plan to provide site security to prevent unauthorized access to the building, to provide haz-cat analysis and chemical characterization of chemicals in the onsite lab as well as re-packaging of select chemicals for disposal.

On December 1, 2015, SWS personnel mobilized to the site to stage poly totes for storing chromic acid wastes to be removed from the two main sump areas located in the facility.

On December 3, 2015, SWS personnel mobilized to the site to initiate the removal of chromic acid wastes from the two sumps and to conduct the haz-cat identification, lab-pack and over-packing of select

chemicals at the site. The wastes were pumped into 300 gallon poly totes staged adjacent to the sump/chrome tank and at the east loading dock. All chemical contents in the containers in the lab were identified and labeled for future disposal. The removal of the chromic acid from the main sump and the sump beneath the tank was continued and completed on December 7, 2015.

On December 18, 2015, six containers of cyanide containing materials were transported for disposal at the Chemical Reclamation Services Facility in Avalon, TX.

On March 17, 2016, 2016, TCEQ contacted EPA requesting EPA assistance with the site. Soil sampling and the sampling of liquids contained in totes previously pumped from the sump tanks below the plating areas have been conducted and are currently awaiting analyses.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

On April 12, 2016, composite five-point soil sampling activities were conducted within thirty-seven 50 by 50 foot grids along the exterior of the facility. Within each grid, sample aliquots were collected from each corner and from the center of the grid at a depth of 0 to 6 inches below ground surface (bgs). The aliquots were then combined and containerized as a composite sample.

On April 13, 2016, five biased grab soil samples were collected in areas previously identified by TCEQ to have elevated concentrations of lead and chromium along the southeastern part of the site. In addition to the soil samples collected, three aqueous waste samples plus a duplicate and MS/MSD were collected using coliwasa tube samplers from within the building. Two samples were taken from the 300 gallon totes containing chromic acid waste from each of the two sumps and the other sample was taken from a rinse water tank.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

2.2.1.2 Next Steps

Review the results of the samples collected and determine if a Removal Action is warranted at the Site. 2.2.2 Issues

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

No information available at this time.

3. Participating Entities

No information available at this time.

4. Personnel On Site

No information available at this time.

5. Definition of Terms

No information available at this time.

6. Additional sources of information

No information available at this time.

7. Situational Reference Materials

No information available at this time.

U.S. ENVIRONMENTAL PROTECTION AGENCY POLLUTION/SITUATION REPORT Lane Plating Works - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region VI

Subject: POLREP #2

Lane Plating Removal Assessment Phase II

Lane Plating Works

A6MS Dallas, TX

To: Reggie Cheatham, EPA

Anthony Buck, TCEQ

Ronnie Crossland, USEPA Region 6

Mark Hayes, USEPA R6

From: Mark Hayes, FOSC

Date: 10/4/2016

Reporting Period: SEPTEMBER 2016

1. Introduction

1.1 Background

Site Number: A6MS Contract Number: EP-W-06-042

D.O. Number: Action Memo Date:

Response Authority: CERCLA Response Type: Time-Critical

Response Lead: EPA Incident Category: Removal Assessment

NPL Status: Non NPL Operable Unit:

 Mobilization Date:
 9/19/2016
 Start Date:
 9/19/2016

 Demob Date:
 9/23/2016
 Completion Date:
 9/23/2016

CERCLIS ID: TXN000605240 RCRIS ID:

ERNS No.: State Notification:

FPN#: Reimbursable Account #:

1.1.1 Incident Category

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1.1.2.1 Location

The site is located in Dallas, Dallas County, Texas (32.6878557°N latitude, 96.7692897°W longitude) within a mixed commercial/residential area. The site encompasses approximately 4.655 acres according to the Dallas County Appraisal District.

A barbed wire fence and locked chain-link fence surrounds the property, and the building is locked with the windows boarded up; there is no access possible except by key at the locked gate. Site topography and surface water drainage appears to slope to the south-southeast.

1.1.2.2 Description of Threat

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The site presents concerns in regards to public health and the environment. Based on the site history and current site conditions. The chemicals utilized in the electroplating process contain hazardous substances, contaminants and/or pollutants that potentially have impacted on-site soils. The contaminants of concern for the site are, but not limited to, cyanides, chromium, cadmium, lead, arsenic as well as other non-hazardous substances associated with electroplating processes.

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On 19 November, 2015, TCEQ representatives met with their Emergency Response Contractor (SWS) at the site to develop a scope of work/work-plan to provide site security to prevent unauthorized access to the building, to provide haz-cat analysis and chemical characterization of chemicals in the onsite lab as well as re-packaging of select chemicals for disposal.

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On 18 December, 2015, six containers of cyanide containing materials were transported for disposal at the Chemical Reclamation Services Facility.

On 17 March, 2016, TCEQ contacted EPA requesting EPA assistance with the removal assessment...

On 12 April, 2016, composite five-point soil sampling activities were conducted within thirty-seven 50 by 50 foot grids along the exterior of the facility by the EPA Team. Within each grid, sample aliquots were collected from each corner and from the center of the grid at a depth of 0 to 6 inches below ground surface (bgs). The aliquots were then combined and containerized as a composite sample.

On 13 April, 2016, five biased grab soil samples were collected by the EPA Team in areas previously identified by TCEQ to have elevated concentrations of lead and chromium along the southeastern part of the site. In addition to the soil samples collected, three aqueous waste samples plus a duplicate and MS/MSD were collected using coliwasa tube samplers from within the building. Two samples were taken from the 300 gallon totes containing chromic acid waste from each of the two sumps and the other sample was taken from a rinse water tank.

A total of 36 soil samples and 4 liquid waste samples were collected by the EPA Team to determine the nature and extent of site-related, hazardous constituents associated with electroplating waste (plating waste) in on-site soils, and to verify if liquids, contained in an unknown number of drums and totes, were considered hazardous substances. Soil samples were submitted for analysis of Metals and Hexavalent Chromium [Cr (VI)]. Liquid waste samples were submitted for analysis of Metals, Hexavalent Chromium [Cr (VI)], Corrosivity (pH), and Sulfide and Cyanide Reactivity. Soil analytical data was compared to the EPA Regional Screening Levels (RSLs), Industrial Soil (THQ = 1.0), May 2016. The liquid waste characterization results were compared to 40 CFR Part 261.

Based on the analytical results, hexavalent chromium, lead, and mercury contaminated soil was present around the footprint of the building. Hexavalent chromium was reported in 17 grids exceeding the EPA RSL of 6.3 mg/Kg. Hexavalent chromium contaminated soil ranged in concentration from 167 mg/Kg (Grid E7) to 5,620 mg/Kg (Grid G7). Lead exceeded the EPARSL of 800 mg/Kg in six grids. Mercury was observed above instrument detection limits in several grids but only exceeded in one grid above the EPA RSL of 46 mg/Kg.

Four liquid waste samples were collected from two on-site totes and one tank labeled as a "rinse water tank" and analyzed to confirm the presence of hazardous substances. Based on the laboratory results, the liquid waste by definition is hazardous due to the characteristic of corrosivity with a pH less than 2. Concentrations ranged from 0.6 to 2.15. Total chromium present in the liquid samples ranged from 105,000 mg/Kg to 296,000 mg/Kg.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

On 19 September, 2016, the EPA Team returned to the site to conduct additional sampling to further characterize the property and to further determine the nature and extent of site-related hazardous constituents associated with electroplating waste (plating waste) in on-site soils.

From 20 September through 23 September, 2016, the EPA Team collected composite five-point soil samples from within approximately 72 grids. Samples were collected at three depth intervals: 0 to 6 inches below ground surface (bgs), 6 to 12 inches bgs, and 12 to 18 inches bgs. Soil samples were submitted for analysis of Metals and Hexavalent Chromium [Cr (VI)].

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

2.2.1.2 Next Steps

- · Conduct data validation on samples submitted for analysis.
- Mobilize to the site and begin waste characterization of liquid waste found in various totes, drums, and buckets within the facility. Consolidate remaining liquid waste into appropriate containers.
- Remove waste containers from within the facility and transport to an authorized facility for

final disposal.

2.2.2 Issues

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

No information available at this time.

3. Participating Entities

No information available at this time.

4. Personnel On Site

19 September, 2016

- START 1
- Driller 1
- Utility Locate 1

20 September, 2016

- EPA OSC 1
- START 3
- Driller 2

21 September, 2016

- EPA OSC 1
- START 3
- Driller 2

22 September, 2016

- EPA OSC 1
- START 3
- Driller 2

23 September, 2016

- EPA OSC 1
- START 3Driller 2

4 October, 2016

- EPA OSC 2
- START 1
- Response Manager 1
- ERRS 3

5. Definition of Terms

bbls - barrels

EPA – Environmental Protection Agency

ERRS - Emergency and Rapid Response Services

LRV - Logistics Response Vehicle

NOI - Notice of Federal Interest

OSC - On-Scene Coordinator

PRP - Potentially Responsible Parties

START - Superfund Technical Assessment and Response Team

TCEQ - Texas Commission on Environmental Quality

yd3 - cubic yard

6. Additional sources of information

6.1 Internet location of additional information/report

www.epaosc.org/laneplating

6.2 Reporting Schedule

7. Situational Reference Materials

For additional information, please refer to "Documents" on www.epaosc.org/CobbWellSite.

U.S. ENVIRONMENTAL PROTECTION AGENCY POLLUTION/SITUATION REPORT Lane Plating Works - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region VI

Subject: POLREP #3

Progress

Lane Plating Works

A6MS Dallas, TX

To: Reggie Cheatham, EPA

Anthony Buck, TCEQ

Ronnie Crossland, USEPA Region 6

Mark Hayes, USEPA R6

From: Mark Hayes, FOSC

Date: 10/19/2016

Reporting Period: October 3, 2016 through October 18, 2016

1. Introduction

1.1 Background

Site Number: A6MS Contract Number: EP-W-06-042

D.O. Number: Action Memo Date:

Response Authority: CERCLA Response Type: Time-Critical

Response Lead: EPA Incident Category: Removal Assessment

NPL Status: Non NPL Operable Unit:

 Mobilization Date:
 10/3/2016
 Start Date:
 10/4/2016

 Demob Date:
 10/19/2016
 Completion Date:
 10/18/2016

CERCLIS ID: TXN000605240 RCRIS ID:

ERNS No.: State Notification:

FPN#: Reimbursable Account #:

1.1.1 Incident Category

1.1.2 Site Description

1.1.2.1 Location

The site is located in Dallas, Dallas County, Texas (32.6878557°N latitude, 96.7692897°W longitude) within a mixed commercial/residential area. The site encompasses approximately 4.655 acres according to the Dallas County Appraisal District.

A barbed wire fence and locked chain-link fence surrounds the property, and the building is locked with the windows boarded up; there is no access possible except by key at the locked gate. Site topography and surface water drainage appears to slope to the south-southeast.

1.1.2.2 Description of Threat

Lane Plating is an abandoned electroplating facility that currently contains an unknown number of drums, tanks, and vats containing electroplating wastes that ceased operations in 2015. After filing bankruptcy in late 2015, Lane Plating is now controlled by Stag Management, Inc. a court-appointed trustee. Electroplating process wastes include acids, bases, flammables, oxidizers, chromium-containing solids (sludge) and liquids, and other non-hazardous solids and liquids.

The site presents concerns in regards to public health and the environment. Based on the site history and current site conditions. The chemicals utilized in the electroplating process contain hazardous substances, contaminants and/or pollutants that potentially have impacted on-site soils. The contaminants of concern for the site are, but not limited to, cyanides, chromium, cadmium, lead, arsenic as well as other non-hazardous substances associated with electroplating processes.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

On 4 November 2015, the Texas Commission on Environmental Quality (TCEQ) conducted a preliminary investigation of the site.

On 19 November 2015, TCEQ representatives met with their Emergency Response Contractor (SWS) at the site to develop a scope of work/work-plan to provide site security to prevent unauthorized access to the building, to provide haz-cat analysis and chemical characterization of chemicals in the onsite lab as well as re-packaging of select chemicals for disposal. On 1 December 2015, SWS personnel mobilized to the site to stage poly totes for storing chromic acid wastes to be removed from the two main sump areas located in the facility.

On 3 December 2015, SWS personnel mobilized to the site to initiate the removal of chromic acid wastes from the two sumps and to conduct the haz-cat identification, lab-pack and over – packing of select chemicals at the site. The wastes were pumped into 300 gallon poly totes staged adjacent to the

sump/chrome tank and at the east loading dock. All chemical contents in the containers in the lab were identified and labeled for future disposal. The removal of the chromic acid from the main sump and the sump beneath the tank was continued and completed on 7 December 2015.

On 18 December 2015, six containers of cyanide containing materials were transported for disposal at the Chemical Reclamation Services Facility.

On 17 March 2016, TCEQ contacted EPA requesting EPA assistance with the removal assessment.

On 12 April 2016, composite five-point soil sampling activities were conducted within thirty-seven 50 by 50 foot grids along the exterior of the facility by the EPA Team. Within each grid, sample aliquots were collected from each corner and from the center of the grid at a depth of 0 to 6 inches below ground surface (bgs). The aliquots were then combined and containerized as a composite sample.

On 13 April 2016, five biased grab soil samples were collected by the EPA Team in areas previously identified by TCEQ to have elevated concentrations of lead and chromium along the southeastern part of the site. In addition to the soil samples collected, three aqueous waste samples plus a duplicate and MS/MSD were collected using coliwasa tube samplers from within the building. Two samples were taken from the 300 gallon totes containing chromic acid waste from each of the two sumps and the other sample was taken from a rinse water tank.

A total of 36 soil samples and 4 liquid waste samples were collected by the EPA Team to determine the nature and extent of site-related, hazardous constituents associated with electroplating waste (plating waste) in on-site soils, and to verify if liquids, contained in an unknown number of drums and totes, were considered hazardous substances. Soil samples were submitted for analysis of Metals and Hexavalent Chromium [Cr (VI)]. Liquid waste samples were submitted for analysis of Metals, Hexavalent Chromium [Cr (VI)], Corrosivity (pH), and Sulfide and Cyanide Reactivity. Soil analytical data was compared to the EPA Regional Screening Levels (RSLs), Industrial Soil (THQ = 1.0), May 2016. The liquid waste characterization results were compared to 40 CFR Part 261.

Based on the analytical results, hexavalent chromium, lead, and mercury contaminated soil was present around the footprint of the building. Hexavalent chromium was reported in 17 grids exceeding the EPA RSL of 6.3 mg/Kg. Hexavalent chromium contaminated soil ranged in concentration from 167 mg/Kg (Grid E7) to 5,620 mg/Kg (Grid G7). Lead exceeded the EPARSL of 800 mg/Kg in six grids. Mercury was observed above instrument detection limits in several grids but only exceeded in one grid above the EPA RSL of 46 mg/Kg.

Four liquid waste samples were collected from two on-site totes and one tank labeled as a "rinse water tank" and analyzed to confirm the presence of hazardous substances. Based on the laboratory results, the liquid waste by definition is hazardous due to the characteristic of corrosivity with a pH less than 2. Concentrations ranged from 0.6 to 2.15. Total chromium present in the liquid samples ranged from 105,000 mg/Kg to 296,000 mg/Kg.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

On 19 September 2016, the EPA Team returned to the site to conduct additional sampling (Phase II) to further characterize the property and to further determine the nature and extent of site-related hazardous constituents associated with electroplating waste (plating waste) in on-site soils.

From 20 September through 23 September 2016, the EPA Team collected composite five-point soil samples from within approximately 72 grids. Samples were collected at three depth intervals: 0 to 6 inches below ground surface (bgs), 6 to 12 inches bgs, and 12 to 18 inches bgs. Soil samples were submitted for analysis of Metals and Hexavalent Chromium [Cr (VI)]. A total 216 samples (192 normal, 20 duplicate, and 4 equipment) were collected during this sampling event. Samples collected at the 6 to 12 inch interval were placed on hold pending analytical results from the 0 to 6 inch and 12 to 18 inch interval.

Based on the analytical results, hexavalent chromium, lead, and mercury contaminated soil was present around the footprint of the building. Hexavalent chromium was reported in three grids exceeding the EPA RSL of 6.3 mg/Kg. Hexavalent chromium contaminated soil ranged in concentration from 9.69 mg/Kg (Grid H4 at a depth of 18 inches) to 203 mg/Kg (Grid E6 at a depth of 6 inches). Lead exceeded the EPA RSL of 800 mg/Kg in one grid at a concentration of 3740 mg/Kg (E6 at a depth of 6 inches). Mercury was reported in two grids exceeding the EPA RSL of 46 mg/Kg, ranging from 46.2 mg/Kg (I10 at a depth of 6 inches) to 77.8 mg/Kg (E6 at a depth of 6 inches).

Due to analytical results that exceeded EPA RSLs, the laboratory was instructed by the EPA Team to analyze the 6 to 12 inch interval for grids C2, D2, D6, E6, D7, F1, F7, G5, G7, and I10.

On 3 October 2016, the EPA Team returned to the site to begin waste characterization of liquid waste found in various totes, drums, and buckets within the facility, and to consolidate remaining liquid waste into appropriate containers. From 4 October through 18 October 2016, ERRS contractors conducted the hazcat identification of approximately 153 containers. Drums and containers were grouped by waste streams and compatibility for future transport and disposal at an authorized facility. In addition to consolidating waste streams, vats and sumps were pumped of their contents and transferred into compatible containers.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

2.2.1.2 Next Steps

- Continue to conduct data validation on samples submitted for analysis.
- Remove waste containers from within the facility and transport to an authorized facility for final disposal. Tentatively scheduled 14 November 2016.

2.2.2 Issues

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

No information available at this time.

3. Participating Entities

No information available at this time.

4. Personnel On Site

19 September 2016

- · START 1
- Driller 1
- Utility Locate 1

20 September 2016

- EPA OSC 1
- START 3
- Driller 2

21 September 2016

- EPA OSC 1
- START 3
- Driller 2

22 September 2016

- EPA OSC 1
- START 3Driller 2

23 September 2016

- EPA OSC 1
- START-3
- Driller 2

4 October 2016

- EPA OSC 2
- START 1
- Response Manager 1
- ERRS 3

5 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

6 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

- EPA OSC 1START 1
 - Response Manager 1
 - ERRS 3
 - Chemist 1
 - Machine Operator 1
 - Accountant 1

8 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

9 October 2016

- EPA OSC 1
- START-1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

10 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

11 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

12 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

13 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

14 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

15 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

16 October 2016

- EPA OSC 1
- START 1Response Manager 1

- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

17 October 2016

- EPA OSC 1
- START 1Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

5. Definition of Terms

- bbls barrels
- EPA Environmental Protection Agency
- ERRS Emergency and Rapid Response Services
- LRV Logistics Response Vehicle
- NOI Notice of Federal Interest
- OSC On-Scene Coordinator
- PRP Potentially Responsible Parties
- START Superfund Technical Assessment and Response Team
- TCEQ Texas Commission on Environmental Quality
- yd3 cubic yard

6. Additional sources of information

6.1 Internet location of additional information/report

www.epaosc.org/laneplating

6.2 Reporting Schedule

7. Situational Reference Materials

For additional information, please refer to "Documents" on www.epaosc.org/laneplating.

U.S. ENVIRONMENTAL PROTECTION AGENCY POLLUTION/SITUATION REPORT Lane Plating Works - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region VI

Subject: POLREP #4

Progress - Removal Action

Lane Plating Works

A6MS Dallas, TX

To: Reggie Cheatham, EPA

Anthony Buck, TCEQ

Ronnie Crossland, USEPA Region 6

Mark Hayes, USEPA R6

From: Mark Hayes, FOSC

Date: 11/22/2016

Reporting Period: 14 November - 18 November 2016

1. Introduction

1.1 Background

Site Number: A6MS Contract Number: EP-W-06-042

D.O. Number: Action Memo Date:

Response Authority: CERCLA Response Type: Time-Critical

Response Lead: EPA Incident Category: Removal Assessment

NPL Status: Non NPL Operable Unit:

 Mobilization Date:
 11/14/2016
 Start Date:
 11/14/2016

 Demob Date:
 11/18/2016
 Completion Date:
 11/18/2016

CERCLIS ID: TXN000605240 RCRIS ID:

ERNS No.: State Notification:

FPN#: Reimbursable Account #:

1.1.1 Incident Category

1.1.2 Site Description

1.1.2.1 Location

The site is located in Dallas, Dallas County, Texas (32.6878557°N latitude, - 96.7692897° W longitude) within a commercial/residential area. The site encompasses approximately 4.655 acres according to the Dallas County Appraisal District.

A barbed wire fence and locked chain-link fence surrounds the property, and the building is locked with the windows boarded up; there is no access except by key at the locked gate. Site topography and surface water drainage appears to slope to the south-southeast.

1.1.2.2 Description of Threat

Lane Plating is an abandoned electroplating facility that contained an unknown number of drums, tanks and vats containing electroplating wastes that ceased operations in 2015. After filing bankruptcy in late 2015, Lane Plating is now controlled by Stag Management, Inc. a court-appointed trustee. Electroplating process wastes include acids, bases, flammables, oxidizers, chromium-containing solids (sludge), and liquids, and Resources Conservation Recovery Act (RCRA) nonhazardous solids and liquids.

The site presents concerns in regards to public health and the environment. Based on the site history and site conditions. The chemicals utilized in the electroplating process contain hazardous substances, contaminants and/or pollutants that potentially have impacted on-site soils. The contaminants of concern for the site are, but not limited to, cyanides, chromium, cadmium, lead and other hazardous substances associated with electroplating the plating process.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

On 4 November 2015, the Texas Commission on Environmental Quality (TCEQ) conducted a preliminary investigation of the site.

On 19 November 2015, TCEQ representatives met with their Emergency Response Contractor (SWS) at the site to develop a scope of work/work-plan to provide site security to prevent unauthorized access to the building, to provide haz-cat analysis and chemical characterization of chemicals in the onsite lab as well as re-packaging of select chemicals for disposal. On 1 December 2015, SWS personnel mobilized to the site to stage poly totes for storing chromic acid wastes to be removed from the two main sump areas located in the facility.

On 3 December 2015, SWS personnel mobilized to the site to initiate the removal of chromic acid wastes from the two sumps and to conduct the haz-cat identification, lab-pack and over – packing of select chemicals at the site. The wastes were pumped into 300 gallon poly totes staged adjacent to the

sump/chrome tank and at the east loading dock. All chemical contents in the containers in the lab were identified and labeled for future disposal. The removal of the chromic acid from the main sump and the sump beneath the tank was continued and completed on 7 December 2015.

On 18 December 2015, six containers of cyanide containing materials were transported for disposal at the Chemical Reclamation Services Facility.

On 17 March 2016, TCEQ contacted EPA requesting EPA assistance with the removal assessment.

On 12 April 2016, composite five-point soil sampling activities were conducted within thirty-seven 50 by 50 foot grids along the exterior of the facility by the EPA Team. Within each grid, sample aliquots were collected from each corner and from the center of the grid at a depth of 0 to 6 inches below ground surface (bgs). The aliquots were then combined and containerized as a composite sample.

On 13 April 2016, five biased grab soil samples were collected by the EPA Team in areas previously identified by TCEQ to have elevated concentrations of lead and chromium along the southeastern part of the site. In addition to the soil samples collected, three aqueous waste samples plus a duplicate and MS/MSD were collected using coliwasa tube samplers from within the building. Two samples were taken from the 300 gallon totes containing chromic acid waste from each of the two sumps and the other sample was taken from a tank labeled "Rinse Water Tank".

A total of 36 soil samples and 4 liquid waste samples were collected by the EPA Team to determine the nature and extent of site-related, hazardous constituents associated with electroplating waste (plating waste) in on-site soils, and to verify if liquids, contained in an unknown number of drums and totes, were considered hazardous substances. Soil samples were submitted for analysis of Metals and Hexavalent Chromium [Cr (VI)]. Liquid waste samples were submitted for analysis of Metals, Hexavalent Chromium [Cr (VI)], Corrosivity (pH), and Sulfide and Cyanide Reactivity. Soil analytical data was compared to the EPA Regional Screening Levels (RSLs), Industrial Soil (THQ = 1.0), May 2016. The liquid waste characterization results were compared to 40 CFR Part 261.

Based on the analytical results, hexavalent chromium, lead, and mercury contaminated soil was present around the footprint of the building. Hexavalent chromium was reported in 17 grids exceeding the EPA RSL of 6.3 mg/Kg. Hexavalent chromium contaminated soil ranged in concentration from 167 mg/Kg (Grid E7) to 5,620 mg/Kg (Grid G7). Lead exceeded the EPARSL of 800 mg/Kg in six grids. Mercury was observed above instrument detection limits in several grids but only exceeded in one grid above the EPA RSL of 46 mg/Kg.

Four liquid waste samples were collected from two on-site totes and one tank labeled as "Rinse Water Tank" and analyzed to confirm the presence of hazardous substances. Based on the laboratory results, the liquid waste by definition is hazardous due to the characteristic of corrosivity with a pH less than 2. Concentrations ranged from 0.6 to 2.15. Total chromium present in the liquid samples ranged from 105,000 mg/Kg to 296,000 mg/Kg.

On 19 September 2016, the EPA Team returned to the site to conduct additional sampling (Phase II) to further characterize the property and to further determine the nature and extent of site-related hazardous constituents associated with electroplating waste (plating waste) in on-site soils.

From 20 September through 23 September 2016, the EPA Team collected composite five-point soil samples from within approximately 72 grids. Samples were collected at three depth intervals: 0 to 6 inches below ground surface (bgs), 6 to 12 inches bgs, and 12 to 18 inches bgs. Soil samples were submitted for analysis of Metals and Hexavalent Chromium [Cr (VI)]. A total 216 samples (192 normal, 20 duplicate, and 4 equipment) were collected during this sampling event. Samples collected at the 6 to 12 inch interval were placed on hold pending analytical results from the 0 to 6 inch and 12 to 18 inch interval.

Based on the analytical results, hexavalent chromium, lead, and mercury contaminated soil was present around the footprint of the building. Hexavalent chromium was reported in three grids exceeding the EPA RSL of 6.3 mg/Kg. Hexavalent chromium contaminated soil ranged in concentration from 9.69 mg/Kg (Grid H4 at a depth of 18 inches) to 203 mg/Kg (Grid E6 at a depth of 6 inches). Lead exceeded the EPA RSL of 800 mg/Kg in one grid at a concentration of 3740 mg/Kg (E6 at a depth of 6 inches). Mercury was reported in two grids exceeding the EPA RSL of 46 mg/Kg, ranging from 46.2 mg/Kg (I10 at a depth of 6 inches) to 77.8 mg/Kg (E6 at a depth of 6 inches).

Due to analytical results that exceeded EPA RSLs, the laboratory was instructed by the EPA Team to analyze the 6 to 12 inch interval for grids C2, D2, D6, E6, D7, F1, F7, G5, G7, and I10.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

On 3 October 2016, the EPA Team returned to the site to begin waste characterization of liquid waste found in various totes, drums, and buckets within the facility, and to consolidate remaining liquid waste into appropriate containers. From 4 October through 18 October 2016, ERRS contractors conducted the hazcat identification of approximately 153 containers. Drums and containers were grouped by waste streams and compatibility for future transport and disposal at an authorized facility. In addition to consolidating waste streams, vats and sumps were pumped of their contents and transferred into compatible containers. Waste stream inventory included the following:

- Cyanide (CN) Solution
 - o 23 x 55 gallon drums
 - o 1 x 275 gallon tote
- Cyanide (CN) Solids
 - o 2 x 55 gallon drums
- · Acid/Oxidizer (chromic acid)
 - o 21 x 55 gallon drums

o 39 x 275 gallon totes o 1 x 330 gallon tote Acid/Oxidizer sludges (chromic acid sludges and solids) o 22 x 55 gallon drums o 1 x 95 gallon overpack o 1 x cubic yard box (bricks from vat bottom) Sulfuric Acid o 2 x 55 gallon drums o 9 x 30 gallon drums Flammable Paint o 2 x 55 gallon drum loose pack Latex paint o 2 x 55 gallon drum loose pack Flammable Aerosol o 2 x 5 gallon pails Acid Solids o 2 x 55 gallon drums Acid Liquids o 4 x 55 gallon drums **Neutral Liquids** o 1 x 275 gallon tote o 9 x 55 gallon drums **Neutral Solids** o 2 x cubic yard boxes **Elemental Mercury** o 1 x 5 gallon pail Waste Oil o 2 x 55 gallon steel drums o 1 x 330 gallon tote Waste Oil Filters o 1 x 55 gal steel drum

Flammable Liquids

Caustic Solids

Caustic Liquids

Soil

o 1 x 55 gallon steel drum

o 4 x 55 gallon drumso 1 x cubic yard box

o 12 x 55 gallon drums

o 12 x cubic yard bulk bagso 2 x 55 gallon drums

for transportation at an authorized facility for final disposal.

16 November 2016

17 November 2016

o 1 x 30 gallon drum (ammonia hydroxide)

From 14 October through 18 October 2016, the EPA Team returned to the site to remove waste containers

o Manifest 009776314 - Clean Harbors Deer Trail Landfill, Deer Trail, CO

o Manifest 009776315 - Clean Harbors Deer Trail Landfill, Deer Trail, CO

§ RQ, UN1755, Waste Chromic acid solution - 15 Portable Tanks (TP)

- § RQ, UN1755, Waste Chomic acid solution 14 Portable Tanks (TP)
- § RQ, UN1755, Waste Chomic acid solution 3 Fiber/Plastic Drums (DF)
- o Manifest 009776316 Clean Harbors Deer Trail Landfill, Deer Trail, CO
 - § RQ, UN1755, Waste Chomic acid solution 11 Portable Tanks (TP)
 - § UN3077, Waste Solid N.O.S. (contaminated soil) 5 Burlap Sack (BA)
 - 17 November 2016
- o Manifest 009776313 Clean Harbors Deer Trail Landfill, Deer Trail, CO
 - § UN3077, Waste Solid N.O.S. (contaminated soil) 7 Burlap Sack (BA)
 - § UN3082, Waste Liquid N.O.S. (Cadmium/Chromium) 1 Portable Tanks (TP)
 - § UN3077, Waste Solid N.O.S. (Chromium) 9 CF
 - § UN3077, Waste Solid N.O.S. (Contaminated Soil) 2 Fiber/Plastic Drums (DF)
 - § UN3262, Waste Corrosive Solid, Basic (Sodium Hydroxide) 1 Fiber/Plastic Box (CF)
 - 17 November 2016
- o Manifest 009776310 Veolia ES Technical Solution, Henderson, CO
 - § UN3506, Waste Mercury 1 Fiber/Plastic Drum (DF)
- o Manifest 009776307 Clean Harbors Deer Trail Landfill, Deer Trail, CO
 - § UN3260, Waste Corrosive Solid, Acidic, N.O.S. (Sulfuric Acid/Cadmium) 2 Fiber/Plastic Drums (DF)
 - § UN3262, Waste Corrosive Solid, Basic, N.O.S. (Sodium Hydroxide/Cadmium) 4 Fiber/Plastic Drums (DF)
 - § UN3264, Waste Corrosive Liquid, Acidic (Hydrochloric Acid, Sulfuric Acid) 4 Fiber/Plastic Drums (DF)
 - § UN3082, Waste Liquid, N.O.S. (Cadmium/Chromium) 9 Fiber/Plastic Drums (DF)
 - § UN3082, Waste Liquid, N.O.S. (Cadmium/Chromium) 1 Fiber/Plastic Drums (DF)
 - § UN1755, Waste Chromic Acid Solution 18 Fiber/Plastic Drums (DF)
 - § UN1755, Waste Chromic Acid Solution 22 Fiber/Plastic Drums (DF)
 - § UN1755, Waste Chromic Acid Solution 1 Fiber/Plastic Drums (DF)
 - § UN1830, Waste Sulfuric Acid 9 Fiber/Plastic Drums (DF)
 - § UN1830, Waste Sulfuric Acid 2 Fiber/Plastic Drums (DF)
 - § Non-RCRA hazardous Waste Solid (Oil Filters) 1 Fiber/Plastic Drums (DF)
 - § UN3260 Waste Corrosive Solid, Acidic (ChromiC Acid) 2 Fiber/Plastic Box (CF)
 - 18 November 2016
 - o Manifest 009776312 Clean Harbors La Porte, La Porte, TX
 - § UN1001, Acetylene, Dissolved 1 Cylinder (CY)
- o Manifest 009776308 Clean Harbors Environmental Services, Kimball, NE
 - § UN1993, Waste Flammable Liquids, N.O.S. (Methyl Ethyl Ketone) 1 Metal Drum (DM)
 - § UN2922, Waste Corrosive Liquids, N.O.S. (Sodium Hydroxide/Sodium Cyanide) 12 Fiber/Plastic Drums (DF)
 - § UN2922, Waste Corrosive Liquids, N.O.S. (Sodium Hydroxide/Sodium Cyanide) 1 Fiber/Plastic Drums (DF)
 - § UN2922, Waste Corrosive Liquids, N.O.S. (Sodium Hydroxide/Sodium Cyanide) 23 Fiber/Plastic Drums (DF)
- o Manifest 009776309 Clean Harbors Spring Grove Resource Recovery, Cincinnati, OH
 - § UN1993, Waste flammable Liquids, N.O.S. (Methyl Ethyl Ketone) 2 Metal Drum (DM)
 - § UN1993, Waste flammable Liquids, N.O.S. (Methyl Ethyl Ketone) 1 Metal Drum (DM)
- o Manifest 009776110 Clean Harbor Deer Trail Landfill, Deer Trail, CO
 - § UN3077, Waste Solid, N.O.S. (Silver) 2 Fiber/Plastic Box (CF)
- o Non-Hazardous Waste Manifest Twin Enviro Services Phantom Landfill, Penrose, CO
 - § Non-Hazardous Liquid (Latex Paint) 2 Fiber/Plastic Drums (DF)
- 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)
- 2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

2.2.1.2 Next Steps

- Continue to conduct data validation on samples submitted for analysis.
- Complete Removal Assessment Reports

2.2.2 Issues

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

No information available at this time.

3. Participating Entities

No information available at this time.

4. Personnel On Site

19 September 2016

- START 1
- Driller 1
- Utility Locate 1

20 September 2016

- EPA OSC 1
- START 3
- Driller 2

21 September 2016

- EPA OSC 1
- START-3
- Driller 2

22 September 2016

- EPA OSC 1
- START 3
- Driller 2

23 September 2016

- EPA OSC 1
- START-3 • Driller – 2

4 October 2016

- EPA OSC 2
- START 1
- Response Manager 1
- ERRS 3

5 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

6 October 2016

- EPA OSC 1
- START 1

Response Manager – 1
ERRS – 3
Chemist – 1
Machine Operator – 1
Accountant – 1

7 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

8 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

9 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

10 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

11 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

12 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

13 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

14 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

15 October 2016

- EPA OSC 1
- START 1Response Manager 1
- ERRS 3
- Chemist 1

- Machine Operator 1
- Accountant 1

16 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

17 October 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 3
- Chemist 1
- Machine Operator 1
- Accountant 1

14 November 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 2
- Machine Operator 1

15 November 2016

- EPA OSC 1
- START 1
- Response Manager 1
- ERRS 2
- Machine Operator 1

16 November 2016

- EPA OSC 2
- START 1
- Response Manager 1
- ERRS 2
- Machine Operator 1

17 November 2016

- EPA OSC 2
- START 1
- Response Manager 1
- ERRS 2
- Machine Operator 1

18 November 2016

- EPA OSC 2
- START 1
- Response Manager 1
- ERRS 2
- Machine Operator 1

5. Definition of Terms

- BA Burlap, cloth, paper, or plastic bags
- bbls barrels
- · CF Fiber or plastic boxes, cartons, cases
- · CM Metal boxes, cartons, cases (including roll-offs)
- CY Cylinders
- DF Fiberboard or plastic drums, barrels, kegs
- · DM Metal drums, barrels, kegs
- · EPA Environmental Protection Agency
- · ERRS Emergency and Rapid Response Services
- · LRV Logistics Response Vehicle
- · NOI Notice of Federal Interest
- · N.O.S. Not Otherwise Specified
- OSC On-Scene Coordinator

- · PRP Potentially Responsible Parties
- · START Superfund Technical Assessment and Response Team
- · TCEQ Texas Commission on Environmental Quality

yel3 - cubic yard

6. Additional sources of information

6.1 Internet location of additional information/report www.epaosc.org/laneplating

6.2 Reporting Schedule

7. Situational Reference Materials

For additional information, please refer to "Documents" on www.epaosc.org/laneplating.

APPENDIX E

TDD NO. 5/WESTON-042-16-010

Page 1 Of 2

U.S. EPA, Region 6 1445 Ross Avenue, Suite 1200

Dallas, TX 75202-2733

Vendor: WESTON SOLUTIONS, INC.

TDD Title: Lane Plating Removal Action Verbal Date :

Purpose: TDD INITIATION Start Date: 08/22/2016

Completion Date: 01/22/2017

Effective Date: 08/22/2016

TDD #: 5/WESTON-042-16-010

Contract #: EP-W-06-042

Amendment #:

 $\textbf{Priority}: {}^{\texttt{HIGH}}$ Overtime Authorized : NoInvoice Unit:

SSID: A6MS

Work Area: Response / Removal

 $\begin{tabular}{ll} \textbf{Project/Site Name} : \texttt{Lane Plating R/A Phase I} \\ \end{tabular}$ Work Area Code:

Project Address : 5322 Bonnie View Road Activity: Fund Lead Removal

County: Dallas Activity Code : ${\sf RV}$ City: Dallas Operable Unit: State : $\mathbb{T}^{\boldsymbol{X}}$ Emergency Code: **Zip Code**: 75218 Performance Based : $^{\text{No}}$

	Ath. a.u.l		
l	Authorized TDD Ceiling :	Amount	LOE (Hours)
	Previous Action(s):	\$0.00	0.00
l	This Action :	\$50,000.00	0.00
l	New Total :	\$50,000.00	0.00

Specific Elements:

Description of Work:

See Schedule

Region Specific:

CERCLIS:: Misc 2:

Accounting and Appropriation Information:							SFO:			
Line	Budget / FY	Approp .	Budget	Program Flement	Object Class	Site Project	Cost	DCN Line-ID	Funding Category	TDD Amount
1	15	Т	6A00	303DC6	2505	06WQWQ00	C001	166ARSC010-001	REMOVAL SUPPORT	\$49,999.65
2	09	Т	6A00	302DC6C	2505	A6K6RS00	C001	096ARSC047-*	REMOVAL SUPPORT	\$.35
					1					

U.S. EPA, Region 6 1445 Ross Avenue, Suite 1200 Dallas, TX 75202-2733

Vendor: WESTON SOLUTIONS, INC.

TDD #: 5/WESTON-042-16-010

Amendment #:

Contract #: EP-W-06-042

Project Officer :	Will LaBombard		Branch Mail Code:	
			Phone Number :	214-665-7199
	(Signature)	(Date)	Fax Number :	
Contracting Officer Re	epresentative William Rhot	enberry	Branch Mail Code :	
			Phone Number :	214-665-8372
	(Signature)	(Date)	Fax Number :	
Contract Specialist:	Michael J. Pheeny		Branch Mail Code :	
			Phone Number :	214-665-2798
	(Signature)	(Date)	Fax Number :	
Contracting Officer :	Michael J. Pheeny		Branch Mail Code :	
Electronically	Signed by Michael J. Pheeny	08/23/2016	Phone Number :	214-665-2798
	(Signature)	(Date)	Fax Number :	
Other Agency Official			Branch Mail Code :	
			Phone Number :	
	(Signature)	(Date)	Fax Number :	

Description of Work: The initial TDD funding ceiling is set at \$50,000.

The Contractor shall document all removal activities at Lane Plating taken by Environmental Restoration ERRS Contractor). The Contractor shall utilize the existing Health and Safety Plan generated under a previous TDD and if needed modify it to protect against exposure of workers to dust created by waste disposal activities. Modifications to the HASP and dust monitoring will be coordinated with the OSC. The Contractor will utilize a logbook, photographs, website and other means as discussed with the OSC to document removal activities at the Site. The Contractor will keep a file of all records (manifests, BOL's) generated during the Removal Action. At the completion of the Removal Action the Contractor will generate a Final Report documenting site activities in a format to be determined with the OSC.

Mike McAteer will be an alternate COR on this TDD. 214.665.7157

Page 1 Of 2

U.S. EPA, Region 6 1445 Ross Avenue, Suite 1200 Dallas, TX 75202-2733

TDD #: 5/WESTON-042-16-010 Amendment #: 001

Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

TDD Title: Lane Plating Removal Action

Start Date: 08/22/2016

Purpose: TDD INITIATION

Completion Date: 01/22/2017

Effective Date: 08/22/2016

Verbal Date :

 $\textbf{Priority}: {\tt HIGH}$ Overtime Authorized : NoInvoice Unit:

SSID: A6MS

Work Area: Response / Removal

 $\begin{tabular}{ll} \textbf{Project/Site Name} : \texttt{Lane Plating R/A Phase I} \\ \end{tabular}$ Work Area Code: Project Address : 5322 Bonnie View Road

Activity: Fund Lead Removal

County: Dallas Activity Code : ${\sf RV}$ City: Dallas Operable Unit: State : $\mathbb{T}^{\boldsymbol{X}}$ Emergency Code: **Zip Code**: 75218

Performance Based : $^{\text{No}}$

Γ	Andrew Land TDD Or William		
l	Authorized TDD Ceiling :	Amount	LOE (Hours)
	Previous Action(s):	\$50,000.00	0.00
	This Action :	\$0.00	0.00
l	New Total :	\$50,000.00	0.00

Specific Elements :

Description of Work:

See Schedule

Region Specific:

CERCLIS:: Misc 2:

—										
Acco	Accounting and Appropriation Information:							SFO:		
Line	Budget / FY	Approp	Budget	Program Flement	Object Class	Site Project	Cost	DCN Line-ID	Funding Category	TDD Amount

U.S. EPA, Region 6 1445 Ross Avenue, Suite 1200 Dallas, TX 75202-2733

Vendor: WESTON SOLUTIONS, INC.

TDD #: 5/WESTON-042-16-010

Amendment #: 001
Contract #: EP-W-06-042

Project Officer :	Will LaBombard		Branch Mail Code:	
			Phone Number :	214-665-7199
	(Signature)	(Date)	Fax Number :	
Contracting Officer Rep	presentative William E	Rhotenberry	Branch Mail Code :	
			Phone Number :	214-665-8372
	(Signature)	(Date)	Fax Number :	
Contract Specialist:	Michael J. Pheeny		Branch Mail Code :	
			Phone Number :	214-665-2798
	(Signature)	(Date)	Fax Number :	
Contracting Officer :	Michael J. Pheeny		Branch Mail Code :	
			Phone Number :	214-665-2798
	(Signature)	(Date)	Fax Number :	
Other Agency Official			Branch Mail Code :	
			Phone Number :	
	(Signature)	(Date)	Fax Number :	

Description of Work:

Amendment 001 - No change in Ceiling or the POP. This amendment is to add OSC Mark Hayes as an alternate COR on this TDD.

Base ORIG - The initial TDD funding ceiling is set at \$50,000.

The Contractor shall document all removal activities at Lane Plating taken by Environmental Restoration ERRS Contractor). The Contractor shall utilize the existing Health and Safety Plan generated under a previous TDD and if needed modify it to protect against exposure of workers to dust created by waste disposal activities. Modifications to the HASP and dust monitoring will be coordinated with the OSC. The Contractor will utilize a logbook, photographs, website and other means as discussed with the OSC to document removal activities at the Site. The Contractor will keep a file of all records (manifests, BOL's)generated during the Removal Action. At the completion of the Removal Action the Contractor will generate a Final Report documenting site activities in a format to be determined with the OSC.

Mike McAteer will be an alternate COR on this TDD. 214.665.7157