



August 4, 2010

Ms Alyssa Hughes  
On-Scene Coordinator  
U.S. Environmental Protection Agency  
61 Forsyth Street, SW, 11th Floor  
Atlanta, Georgia 30303

**Subject: Final Emergency Response Letter Report  
Robinson Foundry  
Alexander City, Tallapoosa County, Alabama  
EPA Contract No. EP-W-05-054  
TDD No. TTEMI-05-001-0100**

Dear Ms. Hughes:

The Tetra Tech Superfund Technical Assessment and Response Team (START) is submitting this letter report summarizing the emergency response activities conducted from June 8 through 11, 2009, at the Robinson Foundry in Alexander City, Tallapoosa County, Alabama. Appendix A provides figures that show the site location and layout of the facility. Appendix B is a photographic log of emergency response activities. Appendix C provides a container log and summary of waste volumes. Appendix D presents a copy of Tetra Tech's field logbook notes. Appendix E contains a Table of Witnesses.

## **BACKGROUND**

The Robinson Foundry facility is located at 505 Robinson Court, immediately west of downtown Alexander City, Alabama, in a section of unincorporated Tallapoosa County completely surrounded by Alexander City. Previously, the foundry cast automobile parts for the domestic automobile industry using pre-processed steel, making Robinson Foundry a secondary founding operation. The facility was founded in the mid 1940s and operated for 60 years until an economic downturn in the domestic automobile industry negatively impacted the business. Robinson Foundry Inc. filed for Chapter 11 bankruptcy protection on January 28, 2006 in the United States Bankruptcy Court for the Middle District of Alabama. During the pendency of the Chapter 11 bankruptcy, the shareholders of Robinson Foundry, Inc. sold all capital stock to Advanced Metals Group, LLC, (Advanced Metals Group) a company in the business of managing aluminum and iron foundries. Under the direction of Advanced Metals Group, Robinson Foundry Inc. was merged with Belcher Corporation of Boston, Massachusetts, another foundry under the management of Advanced Metals Group. At this time, the operations of Robinson Foundry were reportedly changed to incorporate a new heat treating process using large quantities of quenching oil, which was shipped to Alexander City, Alabama, from Massachusetts. According to anecdotal evidence from former employees, the foundry failed to reemerge from bankruptcy as a profitable enterprise, and before long the facility owners began a massive sell-off of equipment and foundry machinery, culminating with the ultimate shutdown of the facility in late 2008. In May of 2009, the Robinson Foundry property was put up for auction at a Tallapoosa County tax sale due to deficient ad valorem tax obligations. No bids were offered at the sale, and accordingly, the property was bid automatically to the State of Alabama, which became the owner of the Site. Members of the Tallapoosa County Emergency Management Agency (TCEMA) requested the assistance of the Alabama Department of Environmental Management (ADEM) to determine if any potential environmental dangers existed at the Site. Upon arrival, ADEM and TCEMA noticed several suspected environmental problems, including large amounts of black sand and hundreds of

containers of chemicals abandoned by the former foundry owners, many unlabelled and others with hazardous warning labels. Many of these containers were thought to be actively leaking onto the ground. On June 7, 2009, ADEM notified the U.S. Environmental Protection Agency (EPA) Region 4 Emergency Response and Removal Branch of the conditions at the Site and requested that EPA respond. EPA accordingly notified Tetra Tech to assist. EPA On-Scene Coordinator (OSC) Alyssa Hughes was mobilized to the site, and met Tetra Tech, TCEMA, and ADEM at the site on June 8. The geographic coordinates of the site are 32.949929° north and 85.978180° west (Figure 1, Appendix A).

## RESPONSE ACTIVITIES

On the afternoon of June 8, 2009, START members Charles Berry and James Caruthers met OSC Hughes and OSC Stephen Ball at the front gate to the site. Also present were Joe Paul Boone of TCEMA, Billy Ray Wall of the Tallapoosa County Tax Appraisers Office, and Scott Hicks and Dave Davis from ADEM. Additionally, Mark Bicksler of WRSSCompass (WRS), the Emergency and Rapid Response Services (ERRS) contractor, was present. START prepared air monitoring equipment including a Ludlum Model 3 radiation survey meter and a MultiRAE-Plus 5 gas meter. START also prepared a handheld X-ray fluorescence (XRF) device to screen site soils. All personnel then conducted a site walkthrough, with air monitoring and XRF screening detecting no contaminants of concern in the air or exposed dust and foundry sand in the building.

The site is characterized by several large, empty buildings with a noticeable lack of machinery and wiring. However, many waste containers remain, ranging from 5-gallon buckets to 275-gallon totes. Many of these were unlabeled; however, many others were labeled with stickers indicating flammability and corrosivity. Several odors were noted at one location with some large double-stacked totes. Evidence of leaks, both past and ongoing, were also observed and documented. The site lies in a mixed-use area, bordered by a disposal area for discarded sand castings to the north, railroad tracks to the east, an iron casting facility to the south, and a metal machining and milling shop to the west. Residential areas lie immediately past these buildings in all directions. All of the buildings immediately surrounding the site, both occupied and abandoned, had once been part of the original Robinson Foundry operation and were sold off to various interests prior to the bankruptcy proceedings. The site is drained to the north, along the rail line, by an unnamed tributary of Harold Creek, which is located about 4 miles downriver from the site. Harold Creek then flows for another half mile before emptying into Russell Pond, which eventually drains into nearby Martin Lake.

OSC Hughes determined the response objectives were to inventory all containers on site, secure any leaking or damaged containers, collect representative samples of each waste type, and perform field hazard categorization tests on those samples. The results of those tests would be used to identify general waste streams that ERRS would then use to develop disposal profiles. The eventual goal would be to remove from the site all wastes posing a substantial risk of impacting human health or the environment. Also, OSC Hughes tasked ERRS with securing holes in the site perimeter fencing to keep out trespassers and vandals.

### Containerized Waste

On June 9, EPA, START, and ERRS returned to the site and began moving drums and other small containers into Building 3a; one of the large empty buildings located on site (see Figure 2). A skid-steer was used to move the drums from building to building. Once the drums were brought into the staging area, START numbered them sequentially and developed a drum log. Containers too large to move with the skid-steer were numbered and sampled in place. Three tanks and 135 drums, totes, and small containers were identified as requiring sampling.

Samples were collected with glass tubes or composite liquid waste samplers (CoLiWaSas). Once the samples were collected, field hazard categorization tests were performed, including water-oil solubility, combustibility, halogen content, and pH. Most of the containers were found to have oil, water, or varying mixtures of the two, although several corrosives, flammables, and chlorinated wastes were detected. Once the hazard categorization testing was complete, crews demobilized for the day, and START entered the information into a database. From this database, eight waste streams were identified: acids, bases, petroleum contact water, oil and water mixtures, pure oils, chlorinated oils, oily solids, and chlorinated oily solids. Table 1 in Appendix C provides a summary of the waste streams identified at the site, including hazard categorization test results.

On June 11, ERRS and START returned to the site and collected composite samples of all eight waste streams. ERRS contracted a laboratory for disposal profiling analysis. START composited the component samples and filled out a chain of custody form based on the analyses selected by ERRS. The composited samples were turned over to WRS for delivery to the lab.

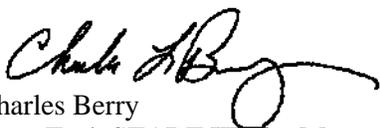
Once demobilized, WRS received the analytical results and prepared disposal profiles, which were eventually submitted to EPA-approved disposal facilities for review and approval. On September 1, 2009, WRS returned to the site to ship the wastes off site. The larger waste streams were bulked prior to shipment, and the resultant empty drums cut up and placed into roll-offs. The solid waste streams were merged into their liquid counterparts, reducing the total number of waste streams from eight to six. In addition to the containerized wastes, two 30 cubic-yard, roll-off boxes of non hazardous waste were generated. The final shipment of waste was removed from the site on September 7, 2009. Table 2 in Appendix C summarizes the types of wastes removed, the receiving facilities, and the approximate volume of each.

### **Soil Screening**

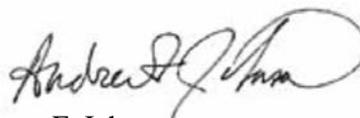
During the site walk-through on June 8, XRF screening was performed to gauge potential worker exposure to airborne dust during response operations. Eleven areas of the site were analyzed using the XRF. Most of these areas were characterized by large piles of charcoal-gray foundry sand (see Figure 3). Although several of the areas showed lead levels greater than 1,500 parts per million (ppm), no readings above the EPA Region 4 Industrial Removal Action Level (RAL) for lead of 2,000 ppm were observed. However, the readings were inconsistent, as values ranged from a high lead reading of over 1,500 ppm to less than the instrument's detection limit for lead (which varies from reading to reading, but is usually around 25 ppm for a 30-second analysis). Also, chromium was detected in several locations, with a high reading of 889.5 ppm. However, as with the lead, chromium readings were inconsistent. START discussed the findings with OSC Hughes and ERRS, and all agreed that, even at the highest levels observed, worker exposure to metals via airborne dust would be of little concern. However, the XRF readings were not a large enough data set to definitively determine if the site met or exceeded EPA removal guidelines. Tetra Tech recommended a complete site removal evaluation in order to make that determination. EPA is performing this evaluation under a separate TDD, TTEMI-05-003-0063. Findings may be found under the documents delivered for that TDD.

If you have any questions, please call Charles Berry at (678) 775-3098.

Sincerely,



Charles Berry  
Tetra Tech START III Site Manager



Andrew F. Johnson  
Tetra Tech START III Program Manager

Ms. Alyssa Hughes  
August 4, 2010

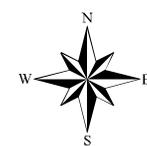
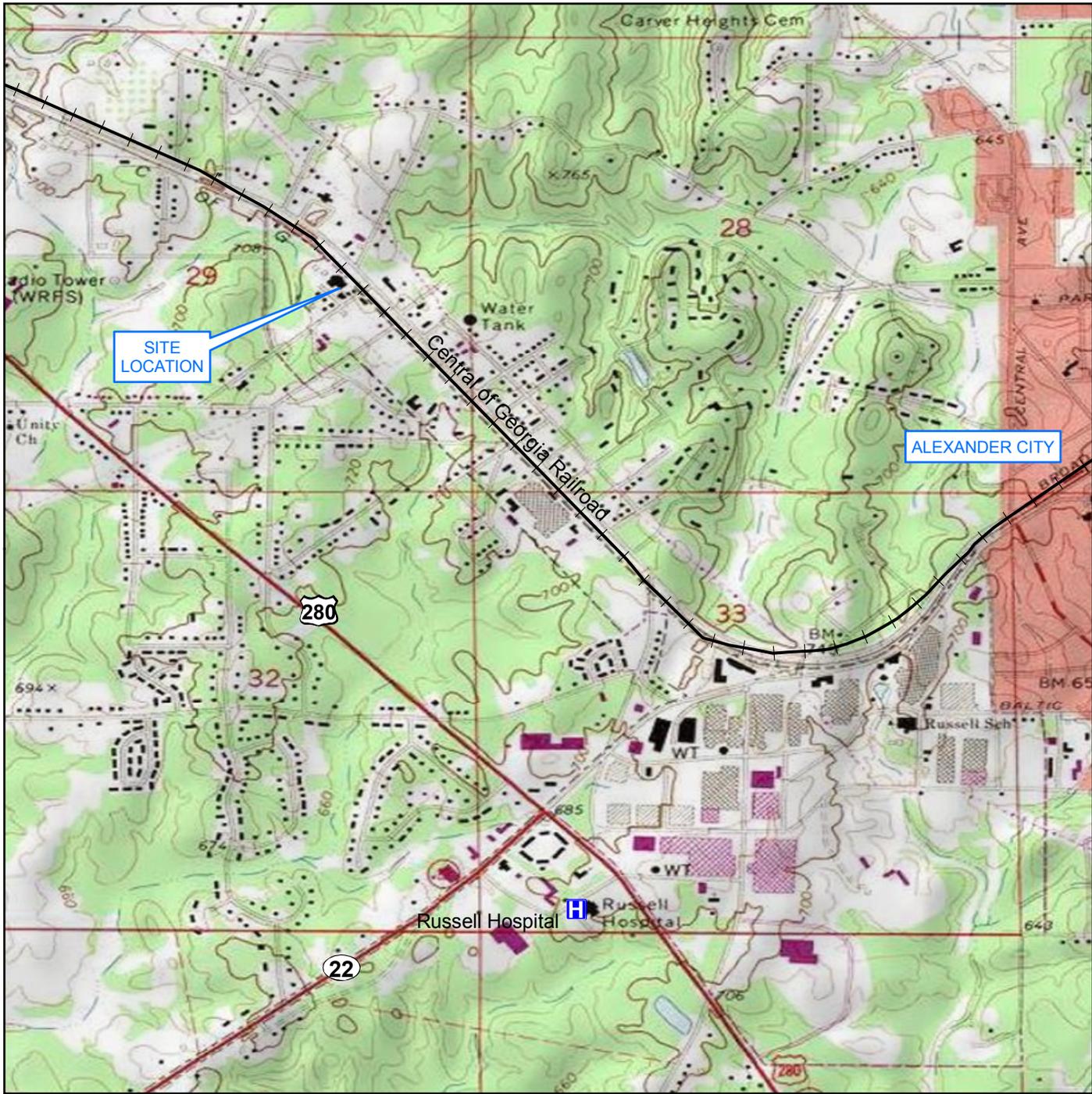
Enclosures (5)

cc: Katrina Jones, EPA Project Officer  
Darryl Walker, EPA Alternate Project Officer  
Brian Croft, START III Task Order Manager  
Angel Reed, START III Document Control Coordinator

## **APPENDIX A**

### **FIGURES**

(3 Pages)



MAP SOURCE: NGS;  
ALEXANDER CITY, ALABAMA  
100K TOPOGRAPHIC QUADRANGLE.



ALEXANDER CITY,  
TALLAPOOSA COUNTY,  
ALABAMA



United States Environmental Protection Agency

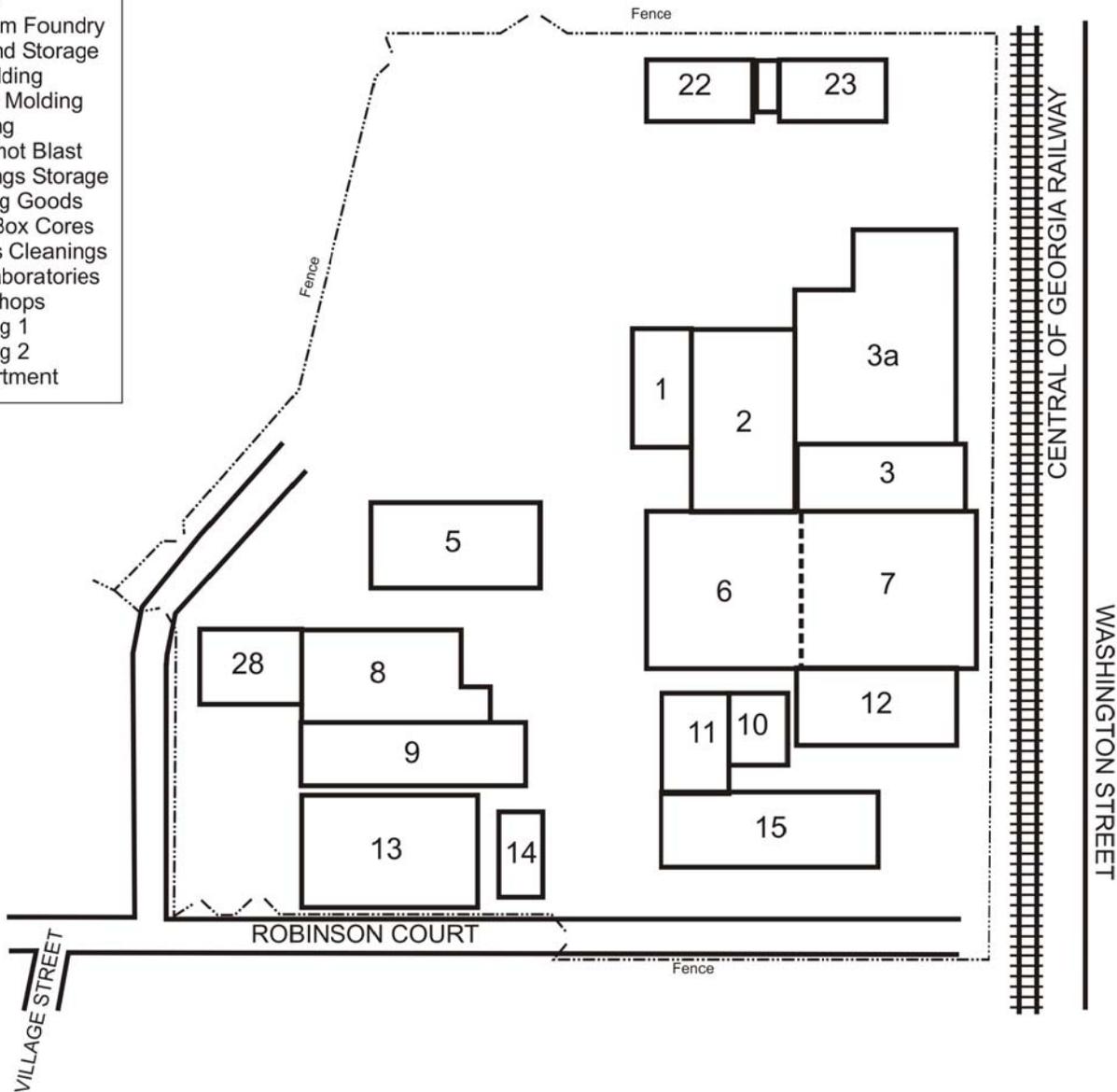
ROBINSON FOUNDRY  
ALEXANDER CITY,  
TALLAPOOSA COUNTY, ALABAMA  
TDD: TTEMI-05-001-0100

**FIGURE 1**  
**SITE LOCATION**



**BUILDINGS**

- (1) Ladle Repair
- (2) Iron Furnaces
- (3) Cold Box Cores
- (3a) Future Aluminum Foundry
- (5) Pattern Shop and Storage
- (6) Disamatic 5 Molding
- (7) Disamatic 2 & 3 Molding
- (8) Castings Packing
- (9) Cleaning and Shot Blast
- (10) Finished Castings Storage
- (11) Non-Conforming Goods
- (12) Shell & Warm Box Cores
- (13) Upper Castings Cleanings
- (14) Personnel & Laboratories
- (15) Maintenance Shops
- (22) Storage Building 1
- (23) Storage Building 2
- (28) Shipping Department



**NOT TO SCALE**

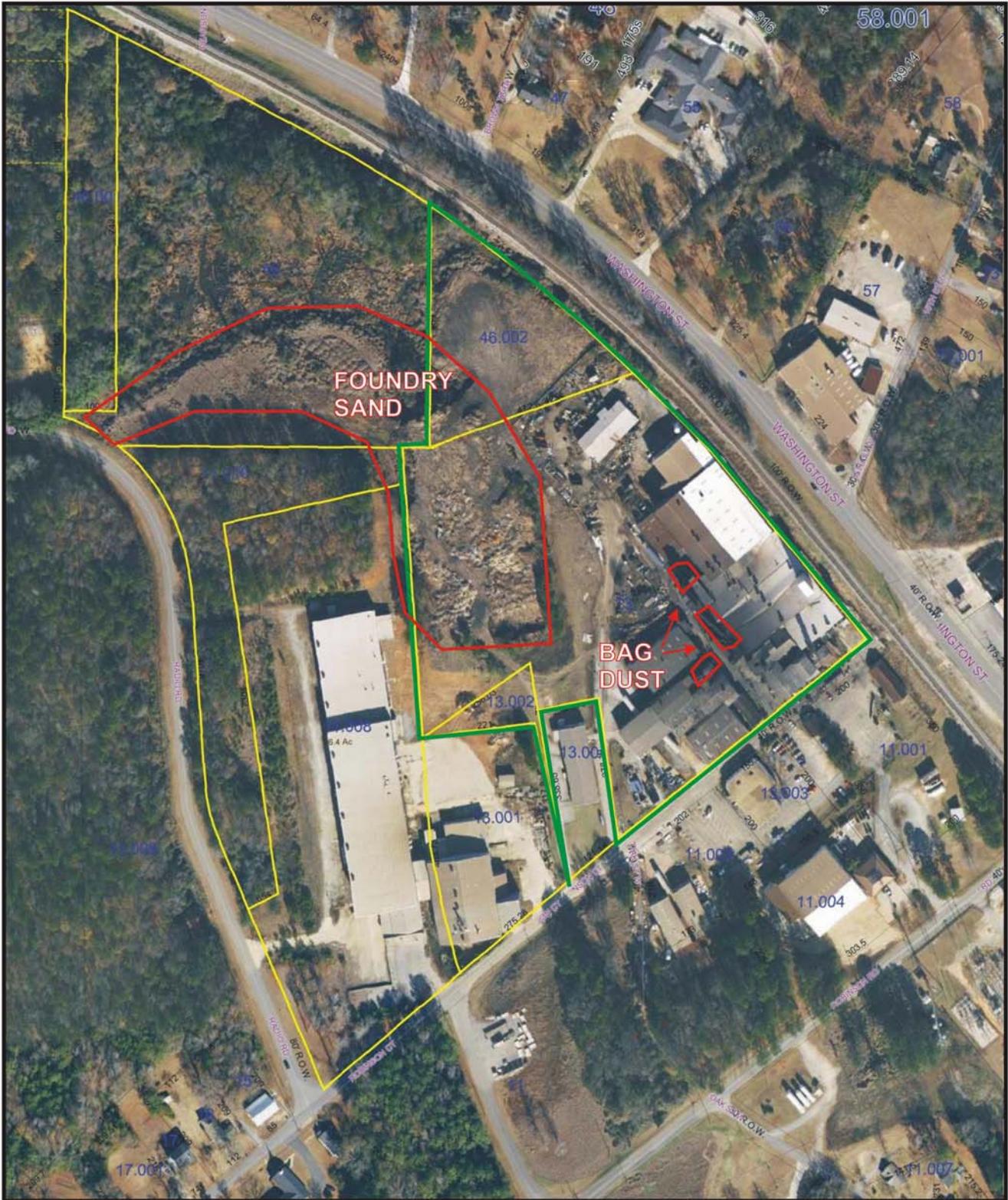
Building nomenclature adopted from the facility response plan. Some buildings were sold during bankruptcy and were not covered under the scope for this response. Thus, building numbering is not consecutive.



**ROBINSON FOUNDRY**  
ALEXANDER CITY,  
TALLAPOOSA COUNTY,  
ALABAMA  
TDD No. TTEMI-05-001-0100

**FIGURE 2**  
**SITE DIAGRAM**





**LEGEND**

-  PROPERTY BOUNDARY
-  SITE BOUNDARY - IDENTIFIES CONTIGUOUS PROPERTY HELD BY THE STATE OF ALABAMA
-  FOUNDRY SAND / DUST



SCALE



MAP DATA COURTESY OF TALLAPOOSA COUNTY TAX ASSESSOR'S OFFICE  
[www.tallapoosacountymaps.com](http://www.tallapoosacountymaps.com)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

ROBINSON FOUNDRY  
 ALEXANDER CITY,  
 TALLAPOOSA COUNTY, ALABAMA  
 TTEMI-05-001-0100

**FIGURE 3  
 SITE LAYOUT**



**APPENDIX B**  
**PHOTOGRAPHIC LOG**  
(13 Pages)



**OFFICIAL PHOTOGRAPH NO. 1**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** North

**Date:** June 8, 2009

**Photographer:** Charles Berry, Tetra Tech

**Witness:** James Caruthers, Tetra Tech

**Subject:** Drums found outside warehouse upon arrival. Note staining on the ground indicating historical spills.





**OFFICIAL PHOTOGRAPH NO. 2**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** South

**Date:** June 8, 2009

**Photographer:** Charles Berry, Tetra Tech

**Witness:** James Caruthers, Tetra Tech

**Subject:** Drum discovered during initial site walk-through. Note the pinhole leaks.





**OFFICIAL PHOTOGRAPH NO. 3**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** South

**Date:** June 8, 2009

**Photographer:** Charles Berry, Tetra Tech

**Witness:** James Caruthers, Tetra Tech

**Subject:** Inside of Buildings 10, 11, and 12. Note the foundry dust and sand on the floor. XRF screening indicated no pervasive heavy metal contamination in the dust or sand.





**OFFICIAL PHOTOGRAPH NO. 4  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** North

**Date:** June 8, 2009

**Photographer:** Charles Berry, Tetra Tech

**Witness:** James Caruthers, Tetra Tech

**Subject:** Drums stored outside of Building 23. Note the staining of the ground.





**OFFICIAL PHOTOGRAPH NO. 5**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** West

**Date:** June 8, 2009

**Photographer:** Charles Berry, Tetra Tech

**Witness:** James Caruthers, Tetra Tech

**Subject:** Oil leaking from damaged containers in Building 22.





**OFFICIAL PHOTOGRAPH NO. 6**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** North

**Date:** June 8, 2009

**Photographer:** Charles Berry, Tetra Tech

**Witness:** James Caruthers, Tetra Tech

**Subject:** Tote containers located on the loading dock in Building 28.





**OFFICIAL PHOTOGRAPH NO. 7**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** Northeast

**Date:** June 8, 2009

**Photographer:** James Caruthers, Tetra Tech

**Witness:** Charles Berry, Tetra Tech

**Subject:** START screening with XRF device to determine metal concentrations on site.





**OFFICIAL PHOTOGRAPH NO. 8  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** West

**Date:** June 9, 2009

**Photographer:** Charles Berry, Tetra Tech

**Witness:** James Caruthers, Tetra Tech

**Subject:** Drums were collected from around the site and moved to a staging area for sampling.





**OFFICIAL PHOTOGRAPH NO. 9**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** East

**Date:** June 9, 2009

**Photographer:** Charles Berry, Tetra Tech

**Witness:** James Caruthers, Tetra Tech

**Subject:** Once moved by equipment to the staging area, ERRS crews segregated drums based on suspected contents in order to group similar material for future storage.





**OFFICIAL PHOTOGRAPH NO. 10**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** East

**Date:** June 9, 2009

**Photographer:** Charles Berry, Tetra Tech

**Witness:** James Caruthers, Tetra Tech

**Subject:** Drums were numbered and placed in staging area to await sampling.





**OFFICIAL PHOTOGRAPH NO. 11  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** NA

**Date:** June 11, 2009

**Photographer:** James Caruthers, Tetra Tech

**Witness:** Charles Berry, Tetra Tech

**Subject:** Samples were collected from each drum. Additionally, information about each drum—including its volume, percent full, and any layering—was recorded during the sampling event





**OFFICIAL PHOTOGRAPH NO. 12**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** North

**Date:** June 11, 2009

**Photographer:** James Caruthers, Tetra Tech

**Witness:** Charles Berry, Tetra Tech

**Subject:** START collecting samples from containers. Sampling equipment was pre-staged for each container to speed the sampling process.





**OFFICIAL PHOTOGRAPH NO. 13  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0100

**Location:** Robinson Foundry  
Alexander City, Alabama

**Orientation:** West

**Date:** June 11, 2009

**Photographer:** Charles Berry, Tetra Tech

**Witness:** Charles Berry, Tetra Tech

**Subject:** Samples taken from drums were subjected to a series of field hazard categorization tests to determine their hazardous characteristics. Similar containers were then grouped into common waste streams, and composite samples of each waste stream were sent to a lab for disposal profile analysis.



## **APPENDIX C**

### **TABLES**

(6 Pages)

**TABLE 1  
ROBINSON FOUNDRY  
CONTAINER LOG**

Container Number	Percent Full	Total Container Volume (gallons)	Waste Volume (gallons)	Layer A					Layer B				Waste Stream
				Layer A (percent of total volume)	Layer Volume (gallons)	Halogens Present?	Oil/Water	pH	Layer B (percent of total volume)	Layer B Volume (gallons)	Oil/Water	pH	
1	50%	55	28	2	0.6	No	O		98	27.0	W	4	PCW
2	50%	55	28	95	26.1	No	O		5	1.4	O		Oil
3	100%	55	55	2	1.1	No	O		98	53.9	W	4	PCW
4	75%	55	41	1	0.4	No	O		99	40.8	W	8	PCW
5	25%	55	14	1	0.1	No	O		99	13.6	W	10	PCW
6	25%	55	14	100	13.8	No	O		0	0.0			Oil
7	25%	55	14	50	6.9	No	O		50	6.9	W	3	Oil with Water
8	25%	55	14	100	13.8	No	O		0	0.0			Oil
9	75%	55	41	100	41.3	No	O		0	0.0			Oil
10	75%	55	41	100	41.3	Yes	W	10	0	0.0			Chlorinated Oils
11	100%	55	55	95	52.3	No	O		5	2.8	W	7	Oil with Water
12	100%	55	55	1	0.6	No			99	54.5	W	4	PCW
13	75%	20	15	100	15.0	No	W	13	0	0.0			Base
14	100%	55	55	1	0.6	No	O		99	54.5	W	7	PCW
15	50%	55	28	100	27.5	No	O		0	0.0			Oil
16	0%	55	0	0	0.0	No			100	0.0			Empty / Not Sampled
17	25%	55	14	70	9.6	Yes	O		30	4.1	O		Chlorinated Oils
18	25%	55	14	100	13.8	No	O		0	0.0			Oil
19	5%	55	3	2	0.1	No	O		98	2.7	W	7	PCW
20	25%	55	14	2	0.3	No	O		98	13.5	W	7	PCW
21	10%	55	6	50	2.8	No	O		50	2.8	W	7	PCW
22	25%	55	14	5	0.7	No	O		95	13.1	W	7	PCW
23	25%	55	14	100	13.8	No	O		0	0.0			Oil
24	25%	55	14	2	0.3	No	O		98	13.5	W	7	PCW
25	75%	55	41	2	0.8	No	O		98	40.4	W	7	PCW
26	5%	55	3	5	0.1	No	O		95	2.6	W	5	PCW
27	50%	55	28	25	6.9	No	O		75	20.6	W	5	PCW
28	25%	55	14	1	0.1	No	O		99	13.6	W	5	PCW
29	50%	55	28	2	0.6	No	O		98	27.0	W	7	PCW

**TABLE 1  
ROBINSON FOUNDRY  
CONTAINER LOG**

Container Number	Percent Full	Total Container Volume (gallons)	Waste Volume (gallons)	Layer A					Layer B				Waste Stream
				Layer A (percent of total volume)	Layer Volume (gallons)	Halogens Present?	Oil/Water	pH	Layer B (percent of total volume)	Layer B Volume (gallons)	Oil/Water	pH	
30	25%	55	14	2	0.3	No	O		98	13.5	W	5	PCW
31	5%	55	3	1	0.0	No	O		99	2.7	W	5	PCW
32	25%	55	14	1	0.1	No	O		99	13.6	W	5	PCW
33	100%	55	55	100	55.0	No	O		0	0.0			Oil
34	50%	55	28	1	0.3	No	O		99	27.2	W	7	PCW
35	5%	55	3	1	0.0	No	O		99	2.7	W	7	PCW
36	50%	55	28	100	27.5	No	O		0	0.0			Oil
37	100%	55	55	5	2.8	No	O		95	52.3	W	10	PCW
38	100%	55	55	2	1.1	No	O		98	53.9	W	5	PCW
39	100%	55	55	2	1.1	No	O		98	53.9	W	5	PCW
40	25%	55	14	5	0.7	No	O		95	13.1	W	5	PCW
41	50%	55	28	2	0.6	No	O		98	27.0	W	9	PCW
42	100%	55	55	50	27.5	No	O		50	27.5	W	9	Oil with Water
43	75%	55	41	30	12.4	No	O		70	28.9	W	9	Oil with Water
44	100%	55	55	2	1.1	No	O		98	53.9	W	5	PCW
45	100%	55	55	95	52.3	No	O		5	2.8	W	8	Oil with Water
46	100%	55	55	25	13.8	No	O		75	41.3	W	10	Oil with Water
47	100%	55	55	75	41.3	No	O		25	13.8	W	10	Oil with Water
48	100%	55	55	90	49.5	No	O		10	5.5	W	1	Oil with Water
49	25%	55	14	100	13.8	No	O		0	0.0			Oil
50	100%	55	55	60	33.0	No	O		40	22.0	W	7	Oil with Water
51	100%	55	55	25	13.8	No	O		75	41.3	W	6	Oil with Water
52	100%	55	55	5	2.8	No	O		95	52.3	W	10	PCW
53	100%	55	55	2	1.1	No	O		98	53.9	W	7	PCW
54	100%	55	55	5	2.8	No	O		95	52.3	W	6	PCW
55	50%	55	28	2	0.6	No	O		98	27.0	W	6	PCW
56	50%	55	28	5	1.4	No	O		95	26.1	W	6	PCW
57	100%	55	55	2	1.1	No	O		98	53.9	W	10	PCW
58	100%	55	55	5	2.8	No	O		95	52.3	W	6	PCW

**TABLE 1  
ROBINSON FOUNDRY  
CONTAINER LOG**

Container Number	Percent Full	Total Container Volume (gallons)	Waste Volume (gallons)	Layer A					Layer B				Waste Stream
				Layer A (percent of total volume)	Layer Volume (gallons)	Halogens Present?	Oil/Water	pH	Layer B (percent of total volume)	Layer B Volume (gallons)	Oil/Water	pH	
59	75%	55	41	5	2.1	No	O		95	39.2	W	6	PCW
60	5%	55	3	1	0.0	No	O		99	2.7	W	5	PCW
61	100%	55	55	100	55.0	Yes	O		0	0.0			Chlorinated Oils
62	100%	55	55	100	55.0	No	O		0	0.0			Oil
63	100%	55	55	5	2.8	No	O		95	52.3	W	7	PCW
64	90%	55	50	100	49.5	No	O		0	0.0			Oil
65	60%	55	33	100	33.0	No	W	0	0	0.0			Acids
66	75%	55	41	90	37.1	No	O		10	4.1	W	1	Oil with Water
67	100%	55	55	80	44.0	Yes	O		20	11.0	W	5	Chlorinated Oils
68	5%	55	3	100	2.8	No	W		0	0.0			PCW
69	100%	55	55	100	55.0	Yes	W	5	0	0.0			Chlorinated
69	100%	55	55	1	0.6	Yes	O		99	54.5	W	5	Chlorinated
70	75%	55	41	100	41.3	No	W	0	0	0.0			Acids
71	75%	55	41	100	41.3	Yes	O		0	0.0			Chlorinated Oils
72	90%	55	50	100	49.5	No	O		0	0.0			Oil
73	75%	55	41	2	0.8	No	O		98	40.4	W	6	PCW
74	75%	55	41	100	41.3	No	O		0	0.0			Oil
75	100%	275	275	100	275.0	No	O		0	0.0			Oil
76	25%	55	14	2	0.3	Yes	O		98	13.5	W	7	Chlorinated Oils
77	50%	275	138	2	2.8	Yes	O		98	134.8	W	7	Chlorinated Oils
78	50%	275	138	1	1.4	No	O		99	136.1	W	6	PCW
79	100%	275	275	40	110.0	No	O		60	165.0	W	6	Oil with Water
80	100%	275	275	50	137.5	No	O		50	137.5	W	7	Oil with Water
81	5%	275	14	100	13.8	No	O		0	0.0			Oil
82	50%	275	138	50	68.8	No	O		50	68.8	W	6	Oil with Water
83	100%	275	275	1	2.8	No	O		99	272.3	W	10	PCW
84	50%	275	138	100	137.5	No	O		0	0.0			Oil
85	50%	275	138	100	137.5	No	O		0	0.0			Oil
86	50%	275	138	100	137.5	No	O		0	0.0			Oil

**TABLE 1  
ROBINSON FOUNDRY  
CONTAINER LOG**

Container Number	Percent Full	Total Container Volume (gallons)	Waste Volume (gallons)	Layer A					Layer B				Waste Stream
				Layer A (percent of total volume)	Layer Volume (gallons)	Halogens Present?	Oil/Water	pH	Layer B (percent of total volume)	Layer B Volume (gallons)	Oil/Water	pH	
87	3%	275	7	1	0.1	No	O		99	6.8	W	6	PCW
88	25%	275	69	25	17.2	No	O		75	51.6	W	6	Oil with Water
89	75%	275	206	100	206.3	No	O		0	0.0			Oil
90	90%	275	248	100	247.5	No	O		0	0.0			Oil
91	50%	275	138	100	137.5	No	O		0	0.0			Oil
92	5%	275	14	2	0.3	No	O		98	13.5	W	7	PCW
93	5%	275	14	2	0.3	No	O		98	13.5	W	5	PCW
94	5%	275	14	2	0.3	No	O		98	13.5	W	5	PCW
95	5%	275	14	100	13.8	No	O		0	0.0			Oil
96	3%	275	7	2	0.1	No	O		98	6.7	W	7	PCW
97	3%	275	7	2	0.1	No	O		98	6.7	W	7	PCW
98	3%	275	7	2	0.1	No	O		98	6.7	W	7	PCW
99	5%	275	14	10	1.4	No	O		90	12.4	W	7	PCW
100	5%	275	14	100	13.8	No	O		0	0.0			Oil
101	50%	55	28	100	27.5	No	O		0	0.0			Oil
102	90%	275	248	100	247.5	No	O		0	0.0			Oil
103	5%	275	14	10	1.4	No	O		90	12.4	W	7	PCW
104	1%	275	3	100	2.8	No	O		0	0.0	W	5	PCW
104	20%	275	55	100	55.0	No	O		0	0.0			Oil
105	3%	275	7	5	0.3	No	O		95	6.5	W	6	PCW
106	3%	275	7	5	0.3	No	O		95	6.5	W	7	PCW
107	3%	275	7	1	0.1	No	O		99	6.8	W	7	PCW
108	25%	55	14	100	13.8	No	O		0	0.0			Oil
109	25%	275	69	100	68.8	No	O		0	0.0			Oil
110	75%	275	206	100	206.3	No	O		0	0.0			Oil
111	100%	275	275	100	275.0	No	O		0	0.0			Oil
112	80%	275	220	40	88.0	No	O		60	132.0	W	7	Oil with Water
113	100%	275	275	100	275.0	No	O		0	0.0			Oil
114	100%	275	275	100	275.0	No	O		0	0.0			Oil

**TABLE 1  
ROBINSON FOUNDRY  
CONTAINER LOG**

Container Number	Percent Full	Total Container Volume (gallons)	Waste Volume (gallons)	Layer A					Layer B				Waste Stream
				Layer A (percent of total volume)	Layer Volume (gallons)	Halogens Present?	Oil/Water	pH	Layer B (percent of total volume)	Layer B Volume (gallons)	Oil/Water	pH	
115	100%	275	275	100	275.0	No	O		0	0.0			Oil
116	35%	275	96	100	96.3	No			0	0.0			Trash / Not Sampled
117	50%	275	138	100	137.5	No			0	0.0			Trash / Not Sampled
118	5%	275	14	66	9.1	No	O		34	4.7	W	7	PCW
119	1%	275	3	1	0.0	No	O		99	2.7	W	7	PCW
120	60%	275	165	100	165.0	Yes	O		0	0.0			Chlorinated Oils
121	5%	275	14	100	13.8	No	O		0	0.0			Oil
122	20%	275	55	100	55.0	No	O		0	0.0			Oil
123	100%	55	55	100	55.0	No			0	0.0			Trash / Not Sampled
124	100%	55	55	100	55.0	No	O		0	0.0			Oil
125	100%	55	55	100	55.0	No	W	14	0	0.0			Base
126	25%	55	14	1	1	No	O		99	55	W	10	PCW
127	50%	55	28	100	27.5	No	O		0	0.0			Oil
128	0%	55	0	100	0.0	No			0	0.0			Empty / Not Sampled
129	5%	55	3	100	2.8	No	O		0	0.0			Oil
130	50%	55	28	1	0.3	No	O		99	27.2	W	6	PCW
131	100%	55	55	100	55.0	No	O		0	0.0			Oil
132	50%	55	28	100	27.5	No	O		0	0.0			Oil
133	100%	55	55	100	55.0	No	O		0	0.0			Oil
134	3%	275	7	1	0.1	No	O		99	6.8	W	7	PCW
135	100%	20	20	100	20.0	No			0	0.0			Acid (by MSDS)
T1	100%	3000	3000	100	3000.0	No	O		0	0.0			Oil
T2	8%	300	23	100	22.5	No	O		0	0.0			Oil

Notes:

O = Oil

W = Water

PCW = Petroleum contact water

MSDS = Material safety data sheet

**TABLE 2  
ROBINSON FOUNDRY  
WASTE DISPOSAL SUMMARY**

Waste Description	Waste Code	Volume	Disposal Facility
Petroleum-Contaminated Water	Non-hazardous	1,500 gallons	Industrial Water Services, Inc. 1980 Avenue A Mobile, AL, 36615 EPA ID # AL000859421
Oil with Benzene	D018	7,200 gallons	Giant Resource Recovery 1229 Valley Dr Attalla, AL, 35954 EPA ID # ALD070513767
Oil and Water	Non-hazardous	2,400 gallons	Universal Environmental Services, LLC 411 Dividend Dr Peachtree City, GA, 30269 EPA ID # GAR000020131
Chlorinated Oil	F001	660 gallons	EQ Florida, Inc 2002 North Orient Rd Tampa, FL, 33619 EPA ID # FLD881932494
Corrosive Liquids, Basic	D002	145 gallons	
Corrosive Liquids, Acidic	D002	130 gallons	
Non-hazardous Debris	Non-hazardous	60 cubic yards	Advanced Disposal Services 1303 Washington Boulevard Tallasse, AL 36078

**APPENDIX D**  
**LOGBOOK NOTES**  
(11 Pages)

Robinson Foundry

TTEMI-05-001-0000



*"Rite in the Rain"*

ALL-WEATHER

**JOURNAL**

No. 391

"*Rite in the Rain*"<sup>®</sup>  
ALL-WEATHER WRITING PAPER



1  
Name \_\_\_\_\_

2  
Address \_\_\_\_\_

3  
Phone \_\_\_\_\_

4  
Project \_\_\_\_\_



• 6/8/9

1320 (All times Central DST)

- STARST Barry arrives on site
- OSC Hughes & Bell on site
- Tallapoosa EMA Joe Paul Boone  
256 825 1078
- Scott Hicks Adam
- Dave Davis <sup>ADSM</sup> god@admin.state.al.us
- Billy Ray Wall Tallapoosa Co Appraiser  
256 825 1072  
or Linda Harris 256 825 1048  
lharris@tallico.com

- 1445 Complete site walk through  
w/ Area RAs - no 'hits' or anything  
noted on the air monitoring
- Site is empty of all machinery  
etc.
  - only waste containers & a few  
desks remain
  - Buildings falling down
  - dark dust everywhere will  
XRF later.
  - Some containers leaking / open /  
unsecured.
  - Mostly oils, flammables, corrosives



6/8/9

1445 (cont) START carothers + been  
ON site for a few minutes  
waiting at the entrance.

1500 Rad / XRF survey.

OUTSIDE GATE 7 READINGS #

XRF - LEAD 32 ppm #40

1502 NO LEAD 41

1505 NO LEAD 42

BOTTOM RAMP - BLDG 12

1507 156 ppm LEAD 43

MID. BLDG. 12

1509 NO RAD

1500 LEAD 44

NEAR SUMAS - BLDG. 12

1511 996.2 LEAD 45

889.5 CHROMIUM

NEAR PRESS - BLDG. 12

1515 ELEV. CR. AS. LEAD 49 - OUTSIDE MAIN

\* PHOTO LOG - PAGE 27

1521 - RAD < 1K CPM

- LOW SPOT NEAR FRAMES 3

ELEV. CHROMIUM.

1527 - NEAR BLDG. 7 54

LEAD - 60 ppm

*John*

6/8/9

READING#

1527 NO LEAD

55

1529 ARSENIC 140 ppm

57

NEAR BLDG. 8

1545 Perform rad survey throughout facility,  
Background at facility gate =  $\approx 400$  cpm.

1610 Rad survey completed. All buildings screened:  
no readings over 600 cpm encountered.  
Average range is 100-400 cpm

1630 Off site. Will return tomorrow @ 0800  
WBS will ~~return~~<sup>be</sup> arrive tomorrow.

OSC ~~high~~ <sup>high</sup> objectives

- Inventory all containers > 5 gal
- Stage all containers in secure area.
- collect representative sample of each waste type
- HazCat + develop waste streams
- Secure site perimeter.
- Collect/screen samples of sand piles, using XRF.

*CS*

6-9-09 ROBINSON FOUNDRY

0800 - ON SITE - START - C. BERRY, J.  
CARUTHERS, EPA - OSCs - A. HUGHES  
S. BELL, WRS - M. BICKSLER, USE:  
H&S, DRUMS - CORR. OILS, SLIP, TRIP  
FALL, DARK INTERIORS

0815 - WALK THROUGH W/WRS/USE:

PLAN TO COLLECT DRUMS & TOTES  
& STAGE IN TWO AREAS.

TOTES - BLDG. - 28

DRUMS - BLDG. - 2

0940 - COLLECT DRUMS FROM NEAR AREA  
& STAGE IN BLDG. - 2

SEGREGATE BY OIL, CORR., UNK., ETC  
OILS: HYD. OIL, SLUG OIL FROM DIP  
TANK

DRUMS ARE NUMBERED - D001,  
D002, ETC.

1400 CONTINUE STAGING DRUMS IN BLDG

1700 PREP. FOR DRUM SAMPLING  
WED. MORN. 6-10-09

1800 OVERPACK DRUM D027 (LEAKING)

1900 All containers #'s & secured/staged  
- Sampling will occur starting @ 0600  
tomorrow. 128 total containers.

CSB

6/10/9

0600 START, ERNS on site.

WEATHER - Hot, High in the  
40s No rain expected

Workplan - Sample & HazCat  
all containers

0630 Air modeling in Drum Area of  
Bld B. VOC highest reading  
= 2.4 in BZ.

- Setting up for Entry.
- Entry will be Level C based  
on knowledge of the containers
- Most are already open

0715 Entry in progress

0815 Exit hot zone. No PID/air/CO  
readings above 1.5 ppm.

- Drum 27 was skipped in the  
initial count.

0830 Setting up for HazCat.

0915 OSC Hughes & START Begin  
HazCattig.

- START Caruthers & USES, OSC Ball,  
collecting the remaining ~50  
samples.

1030 ~~All drums & tanks sampled.~~ Crews  
moving on to Tanks.  
Crews

6/10/9

1040 M. Beckler assisting with  
HAZCAT. \_\_\_\_\_

1045 \* CORRECTION \*

Crews now sampling totes  
on the loading dock area.  
~~with~~ Second crew working  
on tank sampling. \_\_\_\_\_

1300 HAZCAT.

1435 - NOTE \* D117 - NO SAMPLE -  
SOLID.

\* Leave Entry

1130 Lunch \_\_\_\_\_

1215 J. Caruthers returns to site. Chng  
Still @ lunch. \_\_\_\_\_

1230 Chng returns to site. Resumes  
HAZCAT. \_\_\_\_\_

1430 HAZCAT complete. Discussing  
sample requirements for lab.

Oil/Water - Metab, vol, semi  
- BTU, IRC, PCB, % solids

- % water for pure oils

- Acids & Oil, same

- PCW will be separated out (6" oil  
min)

- Acid/Base vol, semi, met, IRC  
\_\_\_\_\_

6/10/9

non-haz H<sub>2</sub>O add to DCW

- Solids

- Chlorinateds separate out.

- 1445 WRS repairing fence. ~~was~~ walking fence line clipping together holes.

- 1500 Packing up trucks.

1545 - START off site. ERDS is moving all empty drums on site indoors.

- Will return to hotel, clean up, + begin data entry at drum log.

CEB

6-11-09

0800 - START - EPA - ERRS ON SITE.

H&S - CHEMICAL SAMPLING.

P. CLOUDY, HOT, 80s

PLAN TO COMPOSITE SAMPLE EACH WASTE STREAM.

~~# LATE ENTRY~~

~~6/10/09~~ <sup>6/10/09</sup>

6/10/09 - WRS inventoried the GC laboratory in the office building.

0947 - D136 & D137 CONTINUUM AEC 230.

1145 Sampling complete.

8 waste streams developed

- Acids

- Bases

- Pet. Contam water

- Oils

- Oils/water

- Chlorinated Oils

- (Unpumpable) Oily Solids

- (Unpumpable) Oily Chlorinated Solids

1200 START / ERRS / EPA work site.

Gate is locked & site is secure.

*CLB*

**APPENDIX E**  
**TABLE OF WITNESSES**  
(1 Page)

## TABLE OF WITNESSES

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