

United States Environmental Protection Agency
Region IV
POLLUTION REPORT

Date: Thursday, April 7, 2005

From: David Andrews

Subject: Final POLREP

Dixie Barrel & Drum
2120 Jones Street, Knoxville, TN
Latitude: 35.9558000
Longitude: -83.9081000

POLREP No.:	6	Site #:	A4CK
Reporting Period:		D.O. #:	0207-F4-00-19
Start Date:	4/12/2003	Response Authority:	CERCLA
Mob Date:	4/12/2003	Response Type:	Time-Critical
Demob Date:	2/17/2005	NPL Status:	Non NPL
Completion Date:	5/28/2005	Incident Category:	Removal Action
CERCLIS ID #:	TND034692632	Contract #	68-S4-02-07
RCRIS ID #:			

Site Description

The Dixie Barrel and Drum Site ("Dixie Barrel" or the "Site") is located at 2120 Jones Street in Knoxville, Knox County, Tennessee. The Site is located in a light-industrial area south of downtown Knoxville, TN and approximately one-half mile to the south of the Tennessee River. Additionally, the Site is located on the northern fringe of a residential neighborhood and about several blocks south of an elementary school. At the time of the December 2003 assessment there was evidence of trespassing and vandalism.

From approximately 1976 to 2002, the Site operated as a plastic and steel drum recycling and reconditioning facility. The facility was permitted to accept used drums that contained less than 1 inch of product ["RCRA Empty"]. The reconditioning process [steel drum] involved several stages: The first stage involved manually removing the residues from the drums. The residues were bulked into other "waste drums" that were later shipped off site for disposal; The second stage was a series of corrosive rinses (concentrated acid & caustic); The third stage was an anti-corrosion treatment and preparation for paint; At some point in the processes, each drum went through a DOT specified integrity test in order to be legally sold as a "reconditioned" drum; The final step is repainting the drum and parking the drum into the inventory of the warehouse. Additional storage was located on adjacent property to the south and in a small house structure known as the "Dixie House".

During their operational years, Dixie Barrel maintained a contract with a waste disposal company that managed the waste generated from their reconditioning operations. Dixie Barrel also operated a system that recycled their process waste-water for reuse in their reconditioning processes and also treated their effluent prior to discharge to the City of Knoxville's POTW. Dixie Barrel was subject to City inspections of their effluent and also received periodic inspections by EPA's Resource Conservation and Recovery Act (RCRA) program. Dixie Barrel was cited for various RCRA violations. The Tennessee Department of Environment and Conservation (TDEC) issued a RCRA enforcement order to the facility in April 2002. The facility failed to comply with the requirements of the order, ceased operations, and filed for bankruptcy.

TDEC's Division of Superfund referred the site to the EPA Emergency Response and Removal Branch in August 2003 and requested a site assessment be performed. EPA conducted a removal assessment in October 2003. Samples collected during the assessment revealed numerous hazardous substances including lead, chromium, ethyl benzene, and trichloroethylene. Drums stored on site were found in poor condition and stored next to other incompatible chemicals thus elevating the risk of fire and explosion. Treatment vats containing concentrated acid and caustic were found open and posed a serious release and injury risk. The removal assessment data and other information laid the foundation to support a removal action by EPA.

On December 15, 2003 EPA and its Emergency Rapid Response Service (ERRS) contractor

responded to the site under an Emergency Action Memorandum to mitigate a release from a number of drums on the site and to secure areas of the site where the fence-line was breached by vandalism. On April 12, 2004 EPA, ERRS, and the Superfund Technical Assessment & Response Team (START) re-mobilized to Site under the existing Emergency Action Memorandum (amended March 10, 2004) to conduct a time-critical removal action to remove waste, threats of release, and effectively secure the Site from vandalism.

Current Activities

From April 2003 through February 2004 EPA, removal contractor (Ferguson Harbor), and technical support contractor (Weston Solutions) conducted a removal action at the former Dixie Barrel & Drum site located 2120 Jones Street, Knoxville, TN 37920. The fenced property encompassed several parcels including the main building at Parcel 109AD002 on Jones Street and two parcels of Davenport Road (109AD003 & 109AD004). Adjacent parcel at 2117 Davenport (Parcel 109AD005) was an unoccupied and dilapidated house and was not part of the removal action. Parcel 109AD005 was not impacted by contamination from operations at Dixie Barrel & Drum. 2200 Jones Street (Parcel 109AD018) was an unoccupied and dilapidated house located on the southern border of the Dixie Barrel & Drum property and was used auxiliary storage for empty drums. No contamination was documented at Parcel 109AD018 and EPA completed removal of the remaining drums, demolished and disposed of the structure.

EPA and support contractors inventoried, crushed and disposed of all of the empty or partially empty drums on both properties (109AD002 and 109AD004). Drums that may have contained residues were emptied and waste consolidated and disposed. Sludge from the waste-water treatment reservoir on the back side of the building was removed from a subsurface holding tank and disposed. Heavy machinery associated with the production line was cut and disposed as recycled metal. In July 2003 a mudslide damaged the basement wall on the south side of the building and the City of Knoxville condemned the building. Additionally, contaminated soil was removed in the former loading dock area on the back side of the main building located approximately at a point where Parcel 109AD002 and 109AD004 meet. Approximately two feet of contaminated soil was removed and backfilled with clean soil, graded and seeded covered with a hay cover.

In March 2003 EPA and removal contractors conducted a final site walk and inspection to assure that all assigned removal/clean-up tasks were completed. The rear of the property that was excavated, backfilled and seeded had fully germinated and the soil stable with no wash-outs. The building was clearly marked “Condemned” by The City of Knoxville and the perimeter gates locked with no breeches along the fence-line.

In August 2010, EPA and TDEC drove-by and discovered that The City of Knoxville had completed demolition and disposal of the former production building.

Planned Removal Actions

No further action is anticipated by EPA or TDEC.

Next Steps

None

Key Issues

None

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$479,137.00	\$411,848.93	\$67,288.07	14.04%
RST/START	\$95,000.00	\$90,140.10	\$4,859.90	5.12%
Intramural Costs				
USEPA - Direct (Region, HQ)	\$46,000.00	\$30,000.00	\$16,000.00	34.78%
USEPA - InDirect	\$4,000.00	\$900.00	\$3,100.00	77.50%

Total Site Costs	\$624,137.00	\$532,889.03	\$91,247.97	14.62%
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* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Disposition of Wastes

Waste Stream	Quantity	Manifest #	Disposal Facility
Cut Poly & Fiber Drums	2.39 Tons	00001	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810 http://www.wm.com/Templates/FAC4117/contacts.asp
Cut Poly Drums & Metal drum rings	2.37 Tons	00002	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Cut Poly/ Crushed Metal Drums	2.08 Tons	00003	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Crushed Metal Drums	4.49 Tons	00004	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Crushed Metal Drums	3.73 Tons	00005	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Crushed Metal Drums	3.53 Tons	00006	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Building Debris (Dixie House Demo)	5.49 Tons	00007	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Building Debris (Dixie House Demo)	7.11 Tons	00008	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Building Debris (Dixie House Demo)	3.40 Tons	00009	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Building Debris (Dixie House Demo)	7.77 Tons	00010	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Crushed Drums	4.24 Tons	00011	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Crushed Metal Drums	2.92 Tons	00012	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road

			Heiskell, TN 37754 865)-457-7810
Crushed Metal Drums	2.11 Tons	00013	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Scrap-Metal Recycling (Production Line Demo)	11.37 Tons	7/15/04	Tennessee Metals Co LLC 2630 Pickel Ln Knoxville, TN 37914 (865) 544-3050
Scrap-Metal Recycling (Production Line Demo)	10.07 Tons	7/19/2006	Tennessee Metals Co LLC 2630 Pickel Ln Knoxville, TN 37914 (865) 544-3050
Crushed Metal Drums/ Bldg Debris	4.44 Tons	00014	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Crushed Metal Drums/ Bldg Debris	3.89 Tons	00015	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Crushed Metal Drums/ Bldg Debris	4.92 Tons	00016	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810
Rain Water from WWT Pits	1,510 gallons	00020	Land Farm Bioremediation Facility 665 Schweizer Rd. Franklin, KY 42134 Office - (270) 276-3265 http://www.triplem.ws/index.cfm?page=home
Waste Paint	15 X 55 DM/ 1085 Gal.	97215	Polution Control Industries 5485 Victory Lane Millington, TN 38053 (888) 724-8366 http://www.pollutioncontrol.com/
Contaminated Sludge: Sludge-Box No. 4004	11.90 Tons	MI 9677010	Michigan Disposal Waste Treatment Plant 49350 North I-94 Service Drive Belleville, Michigan 48111 Phone: (800) 592-5489 EPA ID #: MID 000 724 831
Contaminated Sludge: Sludge Box No. 4003	12.67 Tons	MI 9677011	Michigan Disposal Waste Treatment Plant 49350 North I-94 Service Drive Belleville, Michigan 48111 Phone: (800) 592-5489 EPA ID #: MID 000 724 831
Contaminated Sludge: Sludge Box No. 4005	11.18 Tons	MI 9677012	Michigan Disposal Waste Treatment Plant 49350 North I-94 Service Drive Belleville, Michigan 48111 Phone: (800) 592-5489 EPA ID #: MID 000 724 831
Contaminated Sludge: Sludge Box No. 4002	11.46 Tons	MI 9677013	Michigan Disposal Waste Treatment Plant 49350 North I-94 Service Drive Belleville, Michigan 48111 Phone: (800) 592-5489 EPA ID #: MID 000 724 831
Contaminated Soil: Roll-Off Box No.2015	12.26 Tons	MI 9677004	Michigan Disposal Waste Treatment Plant 49350 North I-94 Service Drive Belleville, Michigan 48111

			Phone: (800) 592-5489 EPA ID #: MID 000 724 831
Contaminated Soil: Roll-Off Box No.2022	11.17 Tons	MI 9677003	Michigan Disposal Waste Treatment Plant 49350 North I-94 Service Drive Belleville, Michigan 48111 Phone: (800) 592-5489 EPA ID #: MID 000 724 831
Decanted Water -from Waste Sludge Stream	4,200 gallons	MI 9064918	EQ Resource Recovery, Inc. 36345 Van Born Road Romulus, Michigan 48174 Phone: (734) 727-5500 EPA ID #: MID 060 975 844
Decanted Water -from Waste Sludge Stream	2,822 gallons	MI 9064915	EQ Resource Recovery, Inc. 36345 Van Born Road Romulus, Michigan 48174 Phone: (734) 727-5500 EPA ID #: MID 060 975 844
Contaminated Soil (VA8391) Rear Property Excavation	19.22 Tons	105148	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	18.15 Tons	105149	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	19.34 Tons	105150	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	18.74 Tons	105151	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	21.09 Tons	105152	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	22.82 Tons	105153	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	19.45 Tons	105154	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	19.78 Tons	105155	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	22.99 Tons	105156	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	22.54 Tons	105157	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property	20.78 Tons	105158	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754

Excavation			865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	21.02 Tons	105159	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	23.15 Tons	105160	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	20.69 Tons	105161	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	21.17 Tons	105162	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	20.63 Tons	105163	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	23.10 Tons	105164	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	19.57 Tons	105165	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	22.80 Tons	105166	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	23.26 Tons	105167	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	19.42 Tons	105168	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	22.77 Tons	105169	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	24.56 Tons	105170	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	22.30 Tons	105171	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	20.16 Tons	105172	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844
Contaminated Soil (VA8391) Rear Property	18.82 Tons	105173	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754

Excavation			865)-457-7810844
Contaminated Soil (VA8391) Rear Property Excavation	3.06 Tons	105176	WM-Chestnut Ridge Landfill 240 Fleenor Mill Road Heiskell, TN 37754 865)-457-7810844

response.epa.gov/DixieBarrel&Drum

POLREP #6 Last Updated 11/4/2010