



Jcpwct{ 22, 2013

Mr. Benjamin Franco
On-Scene Coordinator
U.S. Environmental Protection Agency
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

**Subject: HpcnEmergency Response Letter Report
Butler Road Mercury Spill
Hopkinsville, Christian County, Kentucky
EPA Contract No. EP-W-05-054
TDD No. TTEMI-05-001-0130**

Dear Mr. Franco:

The Tetra Tech Superfund Technical Assessment and Response Team (START) is submitting this letter report summarizing the emergency response and removal activities conducted from June 24 through July 6, 2010, at the Butler Road Mercury Spill in Hopkinsville, Christian County, Kentucky. Appendix A provides figures that show the site location and layout. Appendix B is a photographic log of the emergency response and removal; Appendix C provides a log of contaminated items; Appendix D is a copy of Tetra Tech's field logbook notes; Appendix E is a Table of Witnesses; Appendix F provides copies of the Lumex[®] air monitoring screening results; and Appendix G contains a copy of the analytical data packages for soil samples collected during the response.

BACKGROUND

On June 22, 2010, representatives from the Kentucky Department of Environmental Protection (KDEP) responded to a reported release of elemental mercury at 3915 Butler Road in Hopkinsville, Kentucky. According to KDEP, mercury was stored in a plastic bottle inside a barn at this location for an undetermined period of time. When the owner passed away, a person who resides at 4134 Madisonville Road in Hopkinsville, Kentucky, was hired to clean-out the barn and accidentally spilled some of the mercury onto the ground at the barn. KDEP, along with its contractor, CMC, Inc. (CMC), responded to site and conducted the cleanup, including excavation of contaminated soil from inside and outside the barn. KDEP also interviewed the person from the Madisonville Road location that was hired to clean-out the barn, conducted air monitoring of that residence, and, subsequently, discovered elevated mercury vapor concentrations of up to 15,000 nanograms per cubic meter (ng/m³) inside that home. These concentrations exceed the attainment goal of 1,000 ng/m³ for residential locations established by the U.S. Environmental Protection Agency (EPA) in consultation with the Agency for Toxic Substances and Disease Registry (ATSDR). Figure 1 of Appendix A illustrates the site locations. Based on air monitoring results and the fact that the scope of the clean-up had increased, KDEP requested assistance from EPA on June 23, 2010.

During the response, KDEP coordinated with representatives from the Christian County Health Department (CCHD) and the Christian County Sheriff's Office (CCSO). On June 24, 2010, CCHD representatives issued an Order to Vacate for the residence located at 4134 Madisonville Road based on the elevated mercury vapor concentrations. In addition, CCHD representatives coordinated toxicological testing of the residents of this home, including the pregnant mother and three children.

RESPONSE ACTIVITIES

On June 24, 2010, EPA On-Scene Coordinators (OSC) Art Smith and Ben Franco, along with Tetra Tech START, mobilized to the site and met with representatives from KDEP, CCHD, and CCSO to further assess the situation. The following subsections provide a summary of EPA's emergency response and removal activities.

3915 Butler Road

Contaminated soil from 3915 Butler Road was excavated from within and around the barn by CMC under contract to KDEP prior to EPA arrival. Figure 2 of Appendix A illustrates the site layout for this location.

On June 27, 2010, OSC Franco and Tetra Tech START visited the site and collected a total of five surface soil samples, including one field duplicate sample, from the areas of excavation to confirm that total mercury concentrations were below the EPA Region 4 regional screening level (RSL) of 4.3 milligrams per kilogram (mg/kg). Each soil sample consisted of a five-point composite sample, and each aliquot was collected from 0 to 6 inches below ground surface (bgs). Analytical results, which are provided in Appendix G, indicated a maximum concentration for total mercury of 0.371 mg/kg. Following review of the analytical results, CMC was directed to backfill the excavated areas with clean soil.

4134 Madisonville Road

On June 24, 2010, OSCs Smith and Franco met at 4134 Madisonville Road with CCHD, CCSO, and the owners of the property and obtained official access to the property. Figure 3 of Appendix A illustrates the site layout for this location.

On June 25, 2010, Tetra Tech START conducted an initial screening of the residence, as well as the vehicle (GMC Jimmy) used by the person responsible for the spill. The residence was screened using a Lumex[®] RA 915+ mercury vapor analyzer (Lumex[®]). Initial screening results for the residence, which are provided in Appendix F, indicated mercury vapor concentrations of up to 2,800 ng/m³ in the breathing zone and up to 25,000 ng/m³ along the floor. Screening results for the vehicle indicated mercury vapor concentrations up to 35,000 ng/m³, with maximum readings obtained along the floor of the driver's seat.

Based on initial screening results, OSC Franco directed CMC — now working as EPA's Emergency and Rapid Response Services (ERRS) contractor — to begin removing personal items from the residence, particularly the large quantity of items that were scattered on the floor throughout the house, in an attempt to isolate the source of the elevated mercury vapors. Personal items were placed in plastic bags and then staged on plastic sheeting outside the house in the sun to allow to heat and off-gas prior screening with the Lumex[®]. Screening of personal items is discussed later in this report.

In addition, OSC Franco directed CMC to clean the vehicle using mercury vacuums and cleaning solutions. Although initial efforts to clean the vehicle failed, removing carpeting from the floor of the driver's seat succeeded in reducing mercury vapor concentrations inside the vehicle to below 1,000 ng/m³.

Even though personal items had been removed from the residence, elevated mercury vapors concentrations persisted. As a result, OSC Franco directed CMC to remove all remaining personal items from the residence, including mattresses, furniture, and the washer and dryer. In addition, CMC removed the carpet from the residence based on elevated Lumex[®] readings from various locations along the floor.

After these items had been removed, Tetra Tech START conducted additional screening of the residence. Although mercury vapor concentrations throughout most of the residence had decreased to approximately

1,600 ng/m³, elevated concentrations of up to 35,000 ng/m³ were still detected emanating from the bathroom, with the floor vent identified as the source of the highest readings. Further investigation of the crawlspace beneath the bathroom identified visible elemental mercury on the ground inside the doorway of the crawlspace and adjacent to the interior east wall, as well as smaller beads of mercury that were adhered to the cinderblock wall of the crawlspace. The bathroom floor was removed on June 28, 2010 in order to remediate the visible elemental mercury.

OSC Franco subsequently directed CMC to begin removing the elemental mercury from the crawl space using mercury vacuums and shovels. The P-traps from both the kitchen and bathroom sinks were also removed; water from the P-traps, which was poured into a clean sample jar, indicated mercury vapor concentrations of up to 43,000 ng/m³. On June 30, 2010, CMC completed cleanup efforts within the crawl space.

On July 1, 2010, Tetra Tech START initiated a clearance test of the residence. All windows and doors remained closed and no forced ventilation occurred during the clearance test. Clearance test results, which are provided in Appendix F, confirmed that mercury vapor concentrations had been reduced to below the attainment goal of 1,000 ng/m³.

During the clearance test, OSC Franco and Tetra Tech START also discovered additional elemental mercury located along the edge of the concrete pad at the front entrance to the residence. The mercury was recovered and containerized by CMC using aspirators and soil and gravel from the area (approximately 6 square feet) adjacent to the concrete pad was removed. The concrete pad was then painted with epoxy paint. Subsequently, OSC Franco directed Tetra Tech START to collect one composite soil sample from the area. Analytical results, which are provided in Appendix G, indicated a maximum concentration for total mercury of 0.41 mg/kg. After the clearance test was completed, personnel demobilized from the site on July 2, 2010. In addition, CCHD representatives lifted the Order to Vacate and cleared the house for re-occupancy.

On July 6, 2010, OSC Franco and CMC returned to the site for restoration, which included replacement of flooring in the bathroom and laundry room, installation of carpeting, return of cleared personal items, and disposal of and reimbursement for contaminated items.

Personal Items Screening

During response activities at 4134 Madisonville Road, loose personal items were removed from the residence, placed into plastic bags, set on plastic sheeting in the sun to heat and off-gas, and then screened with a Lumex[®]. Larger personal items such as furniture were placed on plastic sheeting and covered with additional plastic sheeting and allowed to heat and off-gas prior screening with the Lumex[®]. Items that indicated mercury vapor concentrations less than 10,000 ng/m³, which is the attainment goal for personal items, were considered suitable to return to the owner without condition, but were temporarily stored in a U-Haul truck staged at the site. Items that indicated mercury vapor concentrations greater than 10,000 ng/m³ were allowed to further heat and off-gas in direct sunlight for a period of time until either the levels were reduced to below 10,000 ng/m³ or it was determined that the attainment goal could not be met.

After multiple periods of heating and off-gasing, items that still did not reach the attainment goal were inventoried, photographed, and set aside for disposal. Appendix C provides an inventory of these contaminated items. On July 6, 2010, OSC Franco reviewed the inventory with the residents, who approved of the reimbursement values that were assigned in accordance with EPA guidelines.

4130 Madisonville Road (Rush Coffee House)

On June 25, 2010, OSC Franco and Tetra Tech START also conducted Lumex[®] screening of the Rush Coffee House located at the property to verify that elevated mercury vapor concentrations were not present. The maximum mercury vapor concentration observed was 30 ng/m³.

7230 Madisonville Road

During cleanup at 4134 Madisonville Road, a local resident from 7230 Madisonville Road visited the site and expressed concern to OSC Franco because the person responsible for the spill had also recently conducted some work adjacent to her property, including demolition of an abandoned house trailer. OSC Franco and Tetra Tech START visited this location and conducted Lumex[®] screening of the general area, including the remnants of the abandoned house trailer. The maximum mercury vapor concentration observed was 4 ng/m³.

Waste Disposal

The following wastes were generated during emergency response and removal activities:

- One rolloff box of contaminated soil excavated from the Butler Road location.
- One rolloff box containing contaminated personal items from the Madisonville Road location, which included larger personal items such as mattresses, the sofa, and bagged personal items that were not returned to the owner, as well as personal protective equipment worn by workers during cleanup.
- Six drums of contaminated debris, including wastes removed from the crawl space and soil excavated from near the concrete pad near the front entrance to the residence.

Wastes from both the Butler Road and Madisonville Road locations were transported to the Hopkinsville Landfill for temporary storage until disposal arrangements were finalized.

If you have any questions regarding this report, please call Brian Croft at (678) 775-3113.

Sincerely,



Brian Croft
Tetra Tech START III Site Manager



Andrew F. Johnson
Tetra Tech START III Program Manager

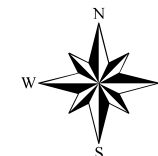
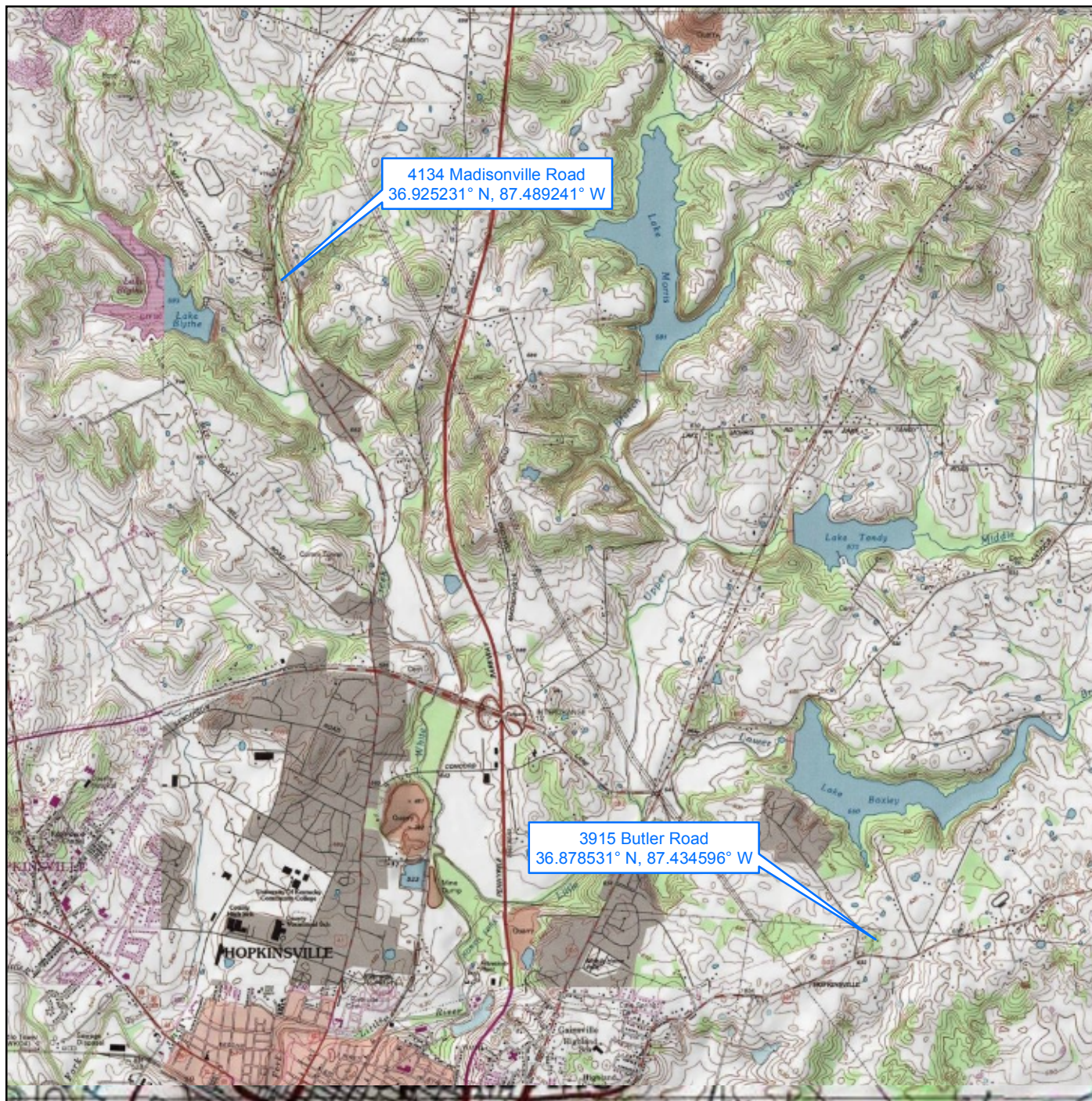
Enclosures (5)

cc: Katrina Jones, EPA Project Officer
Darryl Walker, EPA Alternate Project Officer
Andy Johnson, START III Program Manager
Angel Reed, START III Document Control Coordinator

APPENDIX A

FIGURES

(5 Pages)



0 2,000 4,000
Feet
1:48,000

MAP SOURCE: USGS & NGS;
KELLY, KY TOPO QUADRANGLES, 1984.



United States Environmental Protection Agency

BUTLER ROAD MERCURY SPILL
HOPKINSVILLE,
CHRISTIAN COUNTY,
KENTUCKY
TDD: TTEMI-05-001-0130

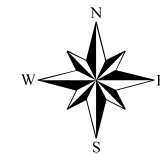
**FIGURE 1
SITE LOCATION**





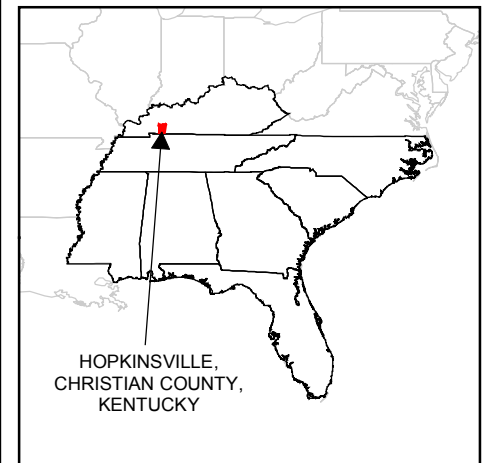
LEGEND

 EXISTING STRUCTURE



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Feet
1:1,500

MAP SOURCE: DIGITALGLOBE 2006.

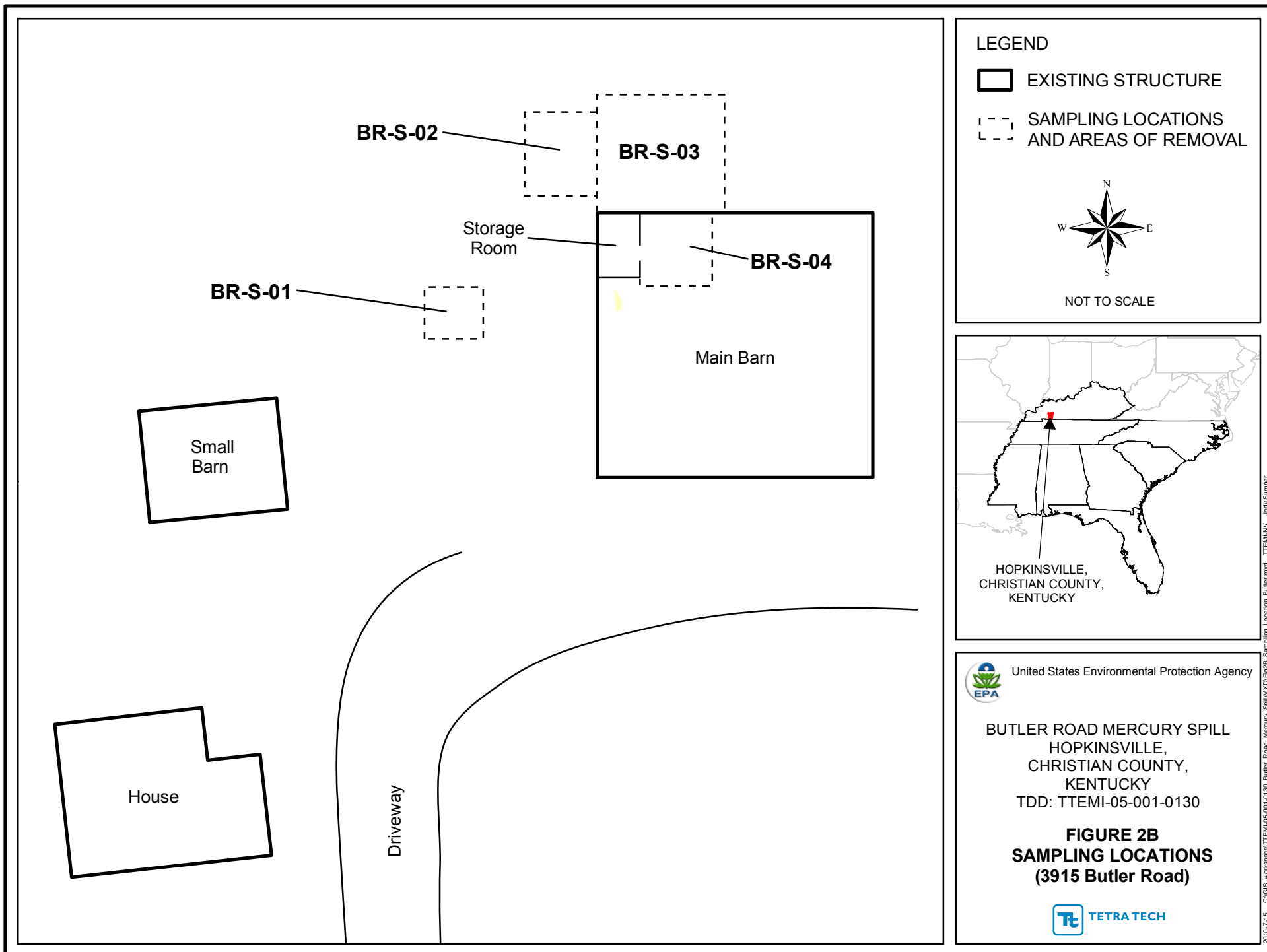


United States Environmental Protection Agency

BUTLER ROAD MERCURY SPILL
HOPKINSVILLE,
CHRISTIAN COUNTY,
KENTUCKY
TDD: TTEMI-05-001-0130

FIGURE 2A
SITE LAYOUT
(3915 Butler Road)







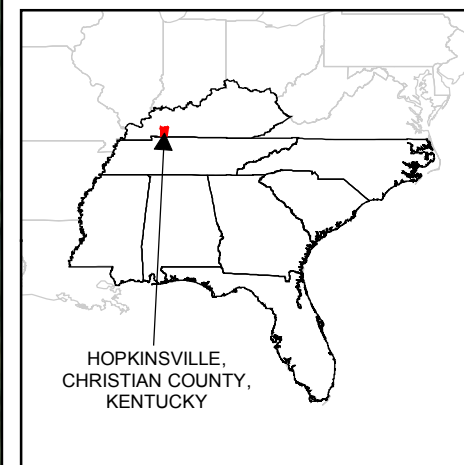
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 EXISTING STRUCTURE



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Feet
1:1,500

AERIAL SOURCE: DIGITALGLOBE, 2006.





United States Environmental Protection Agency

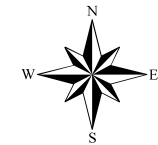
BUTLER ROAD MERCURY SPILL
HOPKINSVILLE,
CHRISTIAN COUNTY,
KENTUCKY
TDD: TTEMI-05-001-0130

FIGURE 3A
SITE LAYOUT
(4134 Madisonville Road)

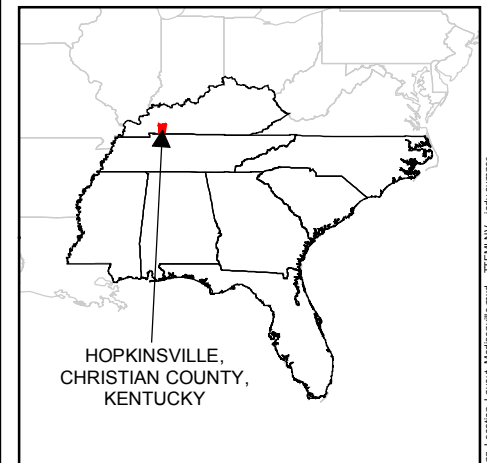


LEGEND

-  EXISTING STRUCTURE
-  SAMPLING LOCATION AND AREA OF REMOVAL



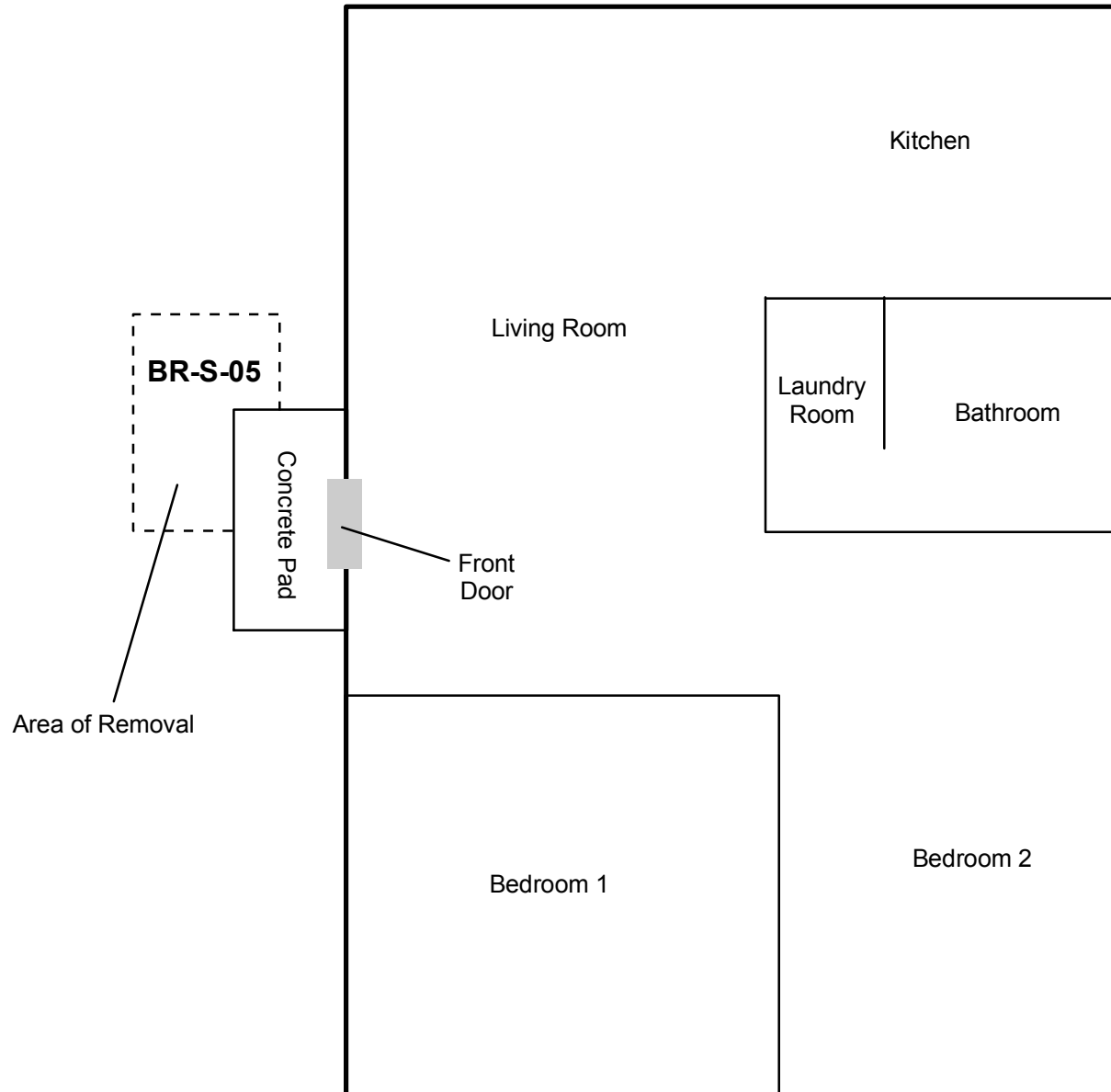
NOT TO SCALE



United States Environmental Protection Agency

BUTLER ROAD MERCURY SPILL
HOPKINSVILLE,
CHRISTIAN COUNTY,
KENTUCKY
TDD: TTEMI-05-001-0130

FIGURE 3B
SAMPLING LOCATION
(4134 Madisonville Road)



APPENDIX B
PHOTOGRAPHIC LOG
(19 Pages)



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: South

Date: June 27, 2010

Photographer: Brian Croft, Tetra Tech

Witness: Ben Franco, EPA

Subject: Areas of soil excavation at the rear of the barn located at 3915 Butler Road.



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

TDD Number: TTEMI-05-001-0130 **Location:** Butler Road Mercury Spill
Orientation: Southeast **Date:** June 26, 2010
Photographer: Brian Croft, Tetra Tech **Witness:** Ben Franco, EPA
Subject: Residence located at 4134 Madisonville Road during removal of personal items.



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

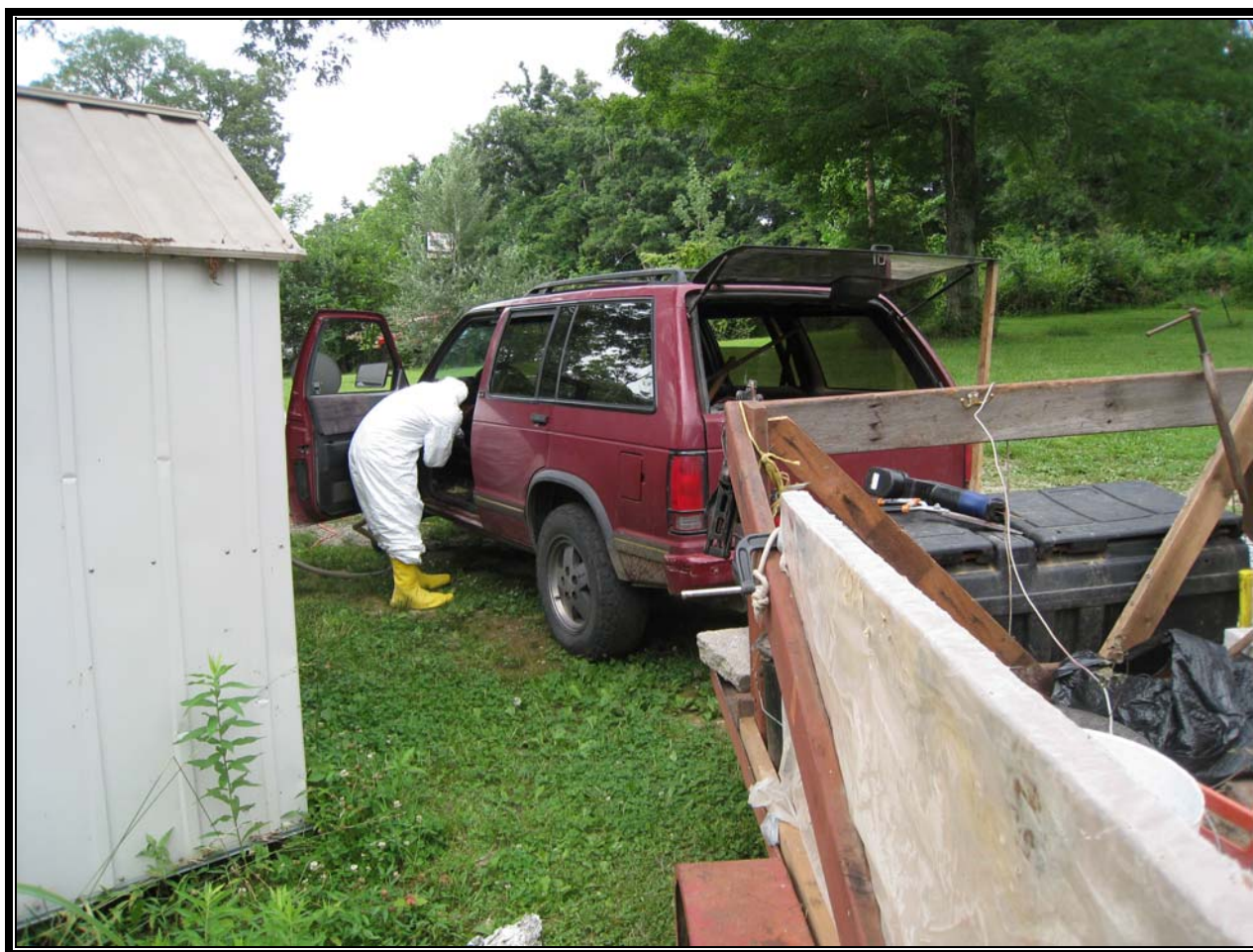
Orientation: Down

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: Ben Franco, EPA

Subject: Plastic bottle containing elemental mercury that was reportedly taken from the barn located at 3915 Butler Road.



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: South

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: Ben Franco, EPA

Subject: CMC, Inc. personnel cleaning the driver's side floorboard of the GMC Jimmy located at the property.



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

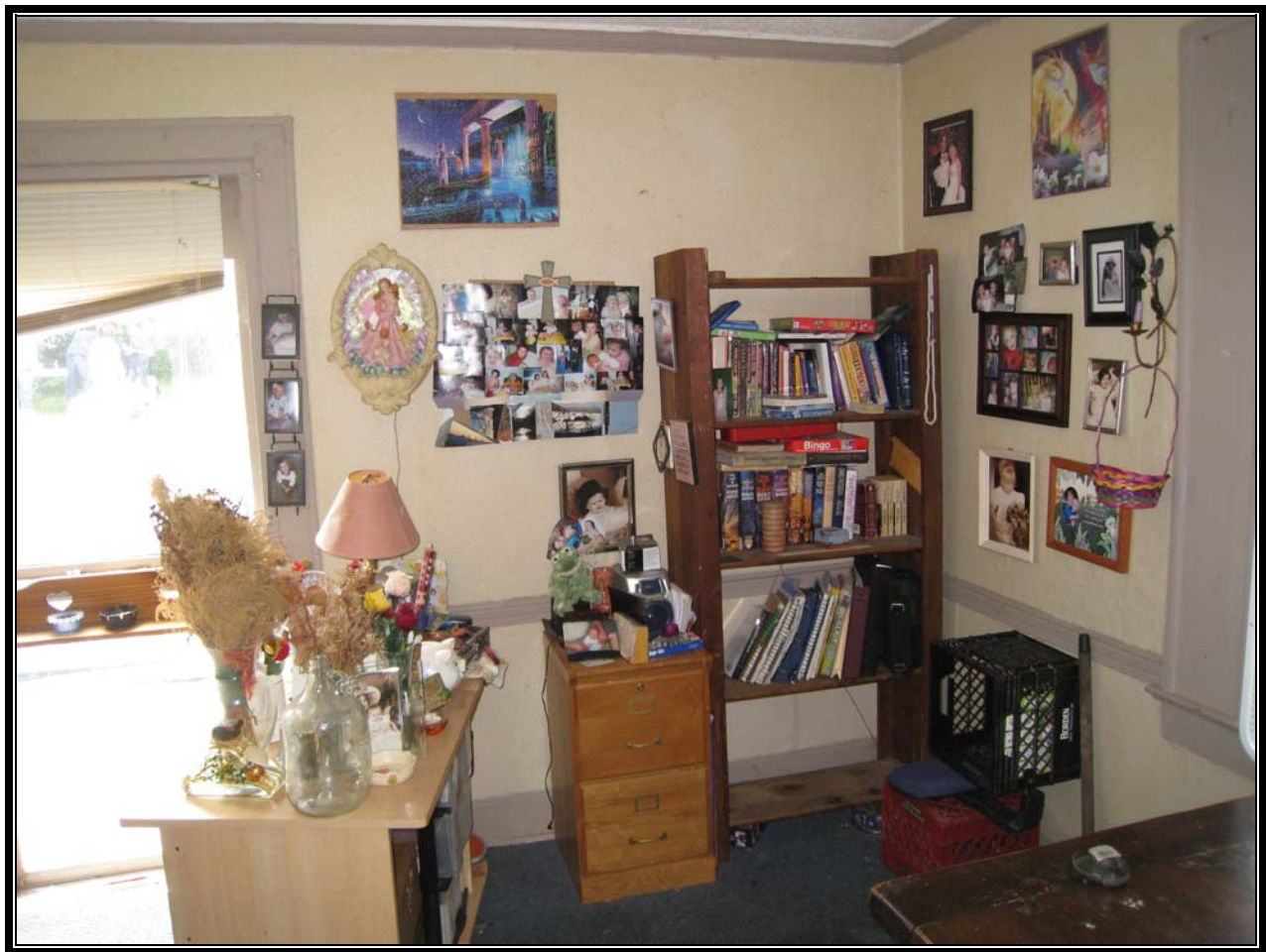
Orientation: Northeast

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: CMC, Inc.

Subject: Living room portion of the residence at 4134 Madisonville Road during the removal of personal items. The kitchen is visible in the left portion of the photograph.



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

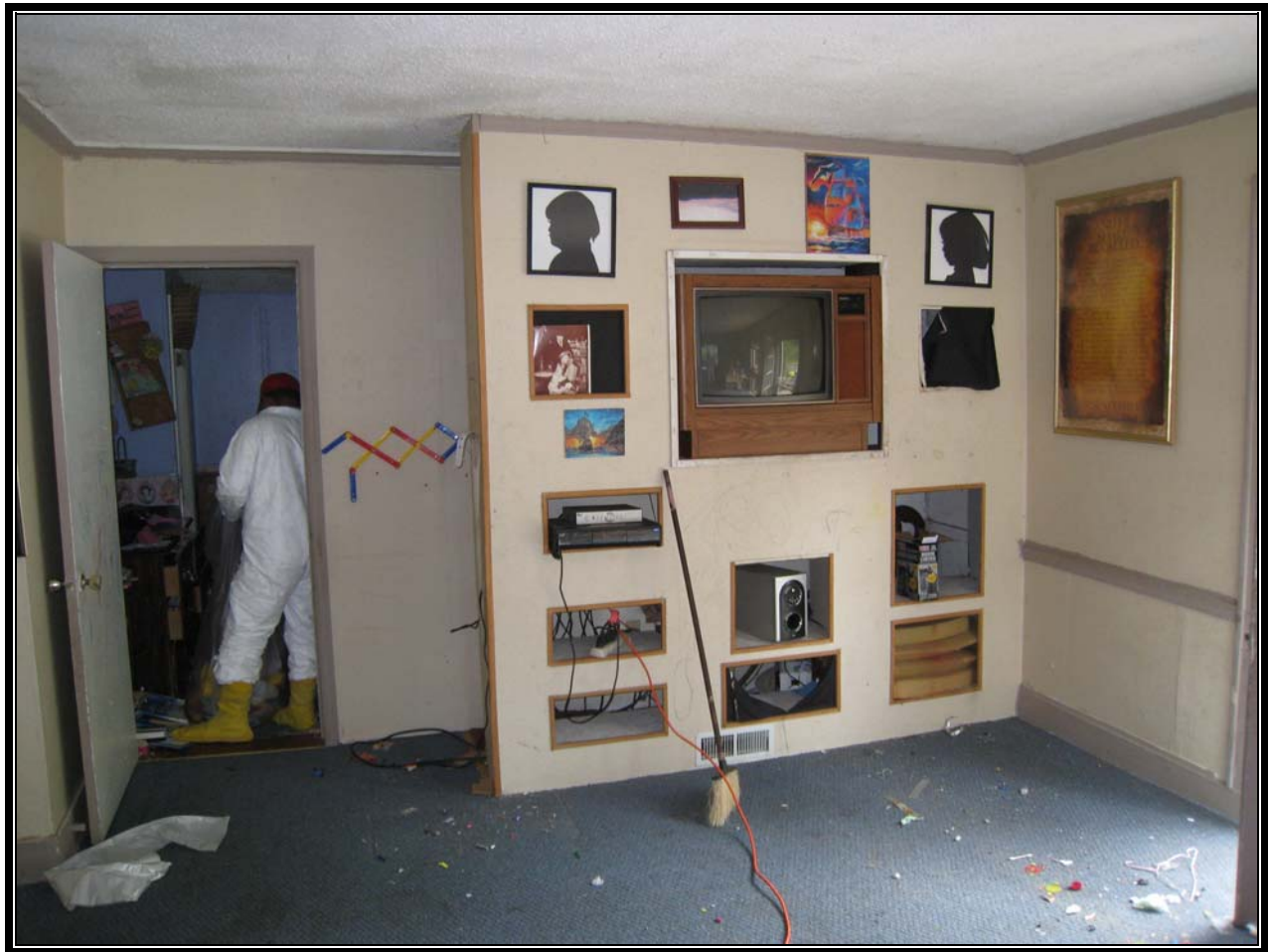
Orientation: Northwest

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: CMC, Inc.

Subject: Living room portion of the residence at 4134 Madisonville Road during the removal of personal items.



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: South

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: CMC, Inc.

Subject: Living room portion of the residence at 4134 Madisonville Road during the removal of personal items. Doorway to Bedroom 1 is visible to the left of the television.



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: Southeast

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: CMC, Inc.

Subject: Bedroom 2 of the residence at 4134 Madisonville Road during the removal of personal items.



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

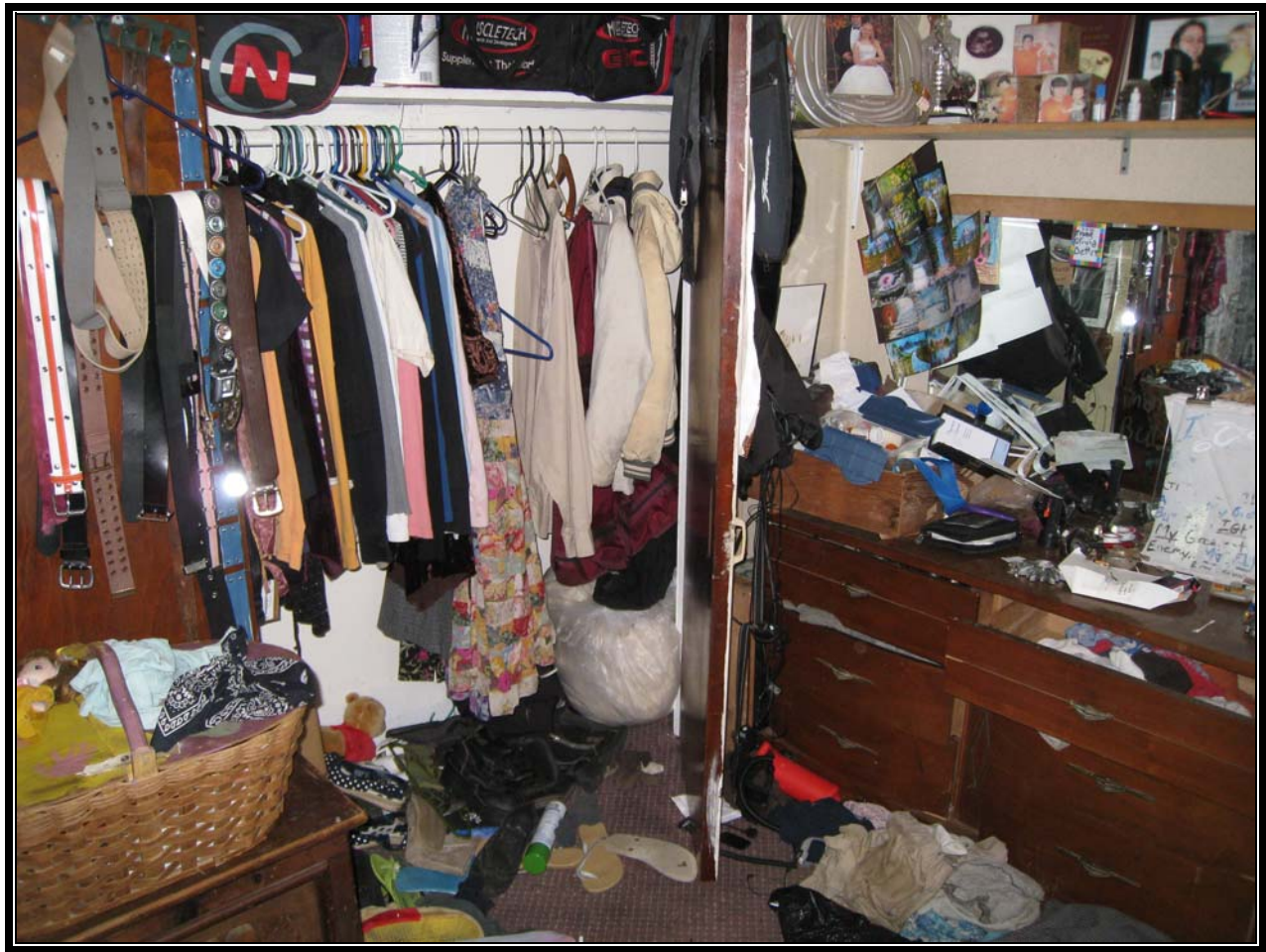
Orientation: South

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: CMC, Inc.

Subject: Bedroom 2 of the residence at 4134 Madisonville Road during the removal of personal items.



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: Northeast

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: CMC, Inc.

Subject: Bedroom 2 of the residence at 4134 Madisonville Road during the removal of personal items.



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: East

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: CMC, Inc.

Subject: Laundry Room of the residence at 4134 Madisonville Road during the removal of personal items. The bathroom is visible in the background.



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

TDD Number:	TTEMI-05-001-0130	Location:	Butler Road Mercury Spill
Orientation:	East	Date:	June 25, 2010
Photographer:	Brian Croft, Tetra Tech	Witness:	CMC, Inc.
Subject:	Kitchen of the residence at 4134 Madisonville Road during the removal of personal items.		



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

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: Southwest

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: CMC, Inc.

Subject: Bedroom 1 of the residence at 4134 Madisonville Road during the removal of personal items.



OFFICIAL PHOTOGRAPH NO. 14
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

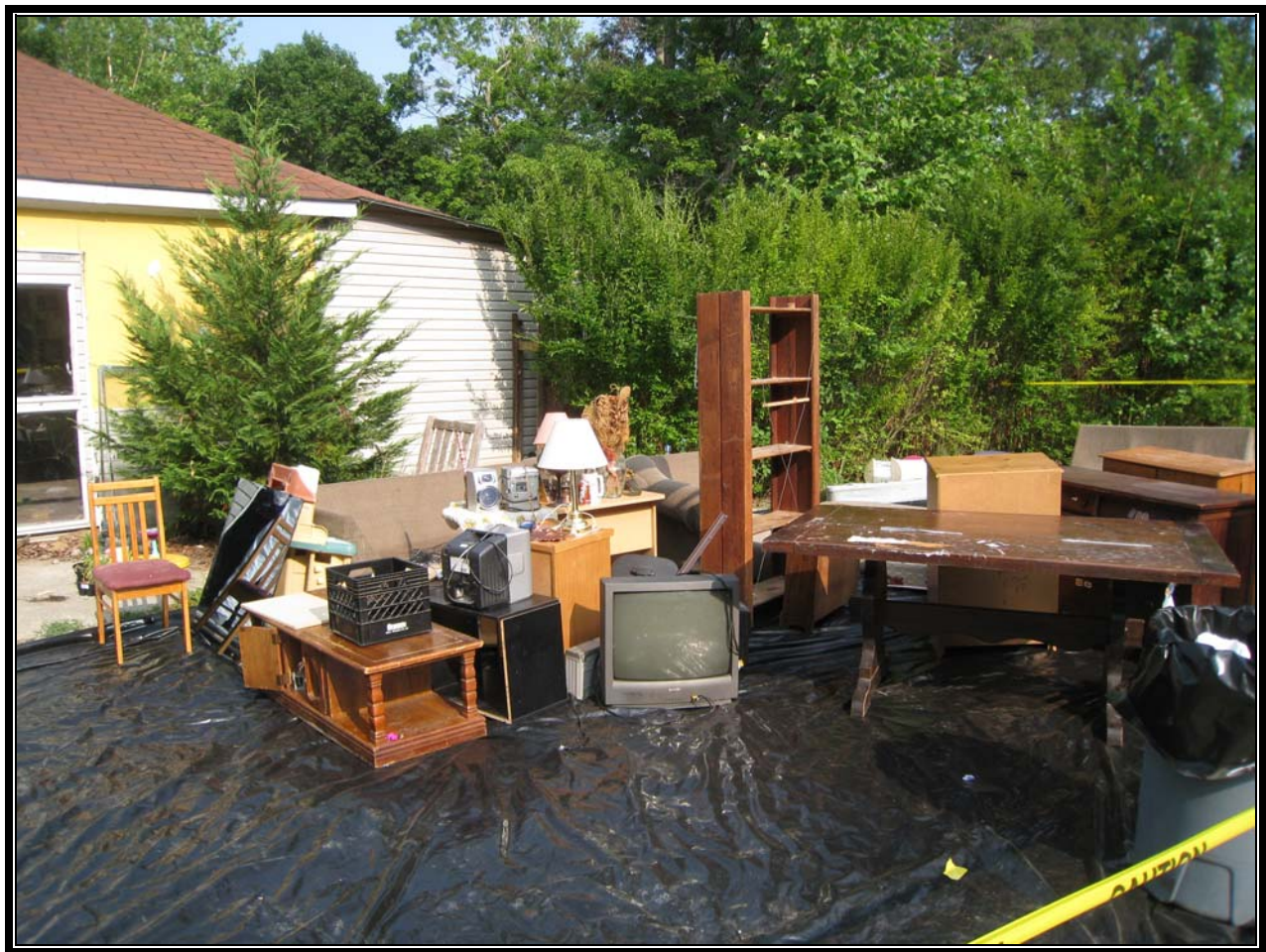
Orientation: Northeast

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: CMC, Inc.

Subject: Bedroom 1 of the residence at 4134 Madisonville Road during the removal of personal items.



OFFICIAL PHOTOGRAPH NO. 15
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: Southeast

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: Ben Franco, EPA

Subject: Furniture and larger personal items removed from the residence at 4134 Madisonville Road.



OFFICIAL PHOTOGRAPH NO. 16
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: Southeast

Date: June 25, 2010

Photographer: Brian Croft, Tetra Tech

Witness: Ben Franco, EPA

Subject: Furniture and larger personal items removed from the residence at 4134 Madisonville Road.



OFFICIAL PHOTOGRAPH NO. 17
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: West

Date: June 26, 2010

Photographer: Brian Croft, Tetra Tech

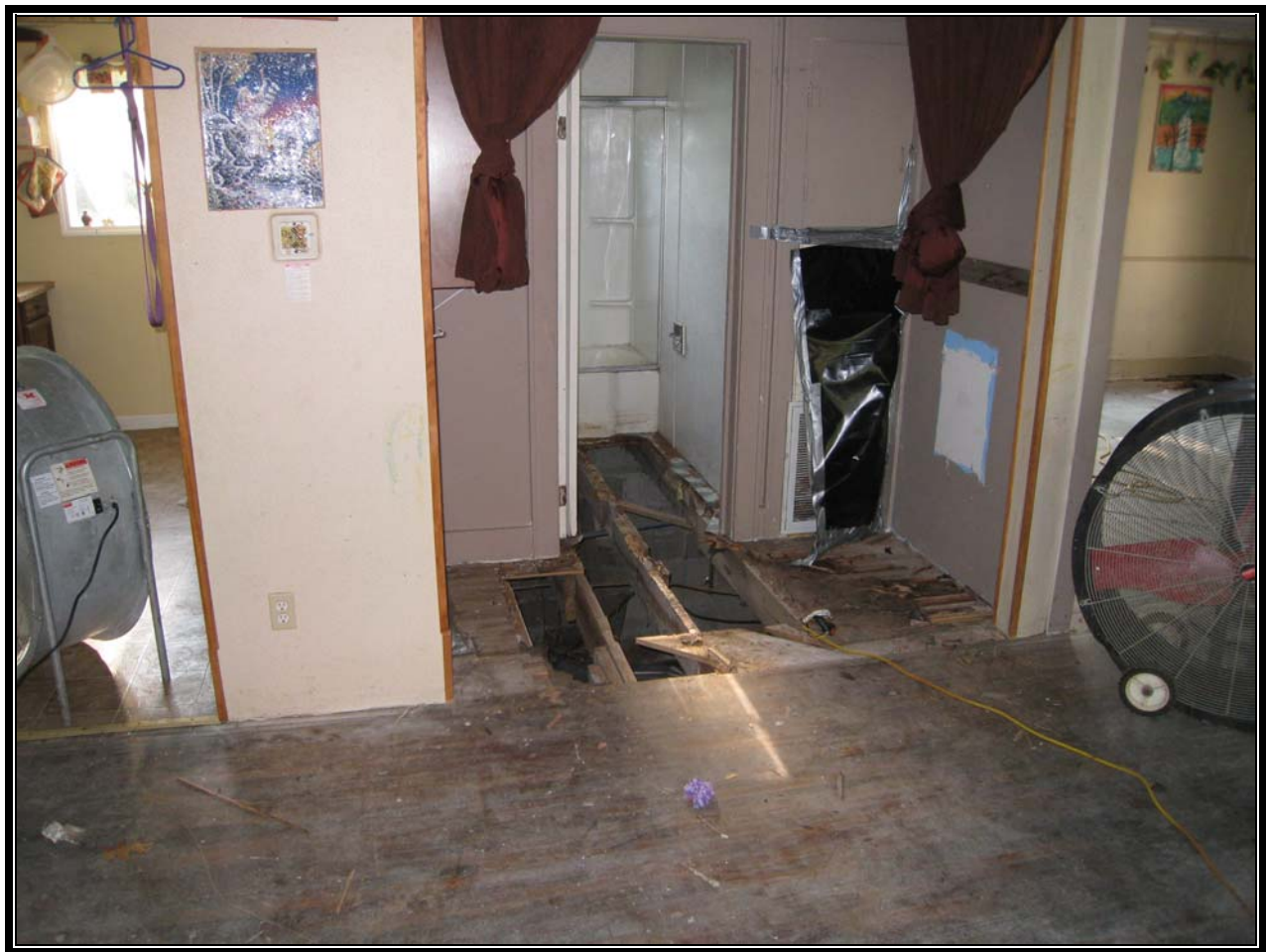
Witness: Ben Franco, EPA

Subject: Rear of the residence located at 4134 Madisonville Road. The door to the crawl space is visible in the right portion of the photograph.



OFFICIAL PHOTOGRAPH NO. 18
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TTEMI-05-001-0130	Location:	Butler Road Mercury Spill
Orientation:	Down	Date:	June 26, 2010
Photographer:	Brian Croft, Tetra Tech	Witness:	Ben Franco, EPA
Subject:	Beads of mercury observed on plastic sheeting inside the crawl space doorway.		



OFFICIAL PHOTOGRAPH NO. 19
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0130

Location: Butler Road Mercury Spill

Orientation: East


Date: June 29, 2010

Photographer: Brian Croft, Tetra Tech

Witness: Ben Franco, EPA

Subject: Interior of the residence located at 4134 Madisonville Road after the flooring was removed from the bathroom.

APPENDIX C
CONTAMINATED ITEMS LOG
(8 Pages)

	U.S. ENVIRONMENTAL PROTECTION AGENCY					
	REGION 4					
	ATLANTA FEDERAL CENTER					
	61 FORSYTH STREET					
	ATLANTA GEORGIA 30303-8960					
4134 Madisonville Rd, Hopkinsville, KY						
	Item Description	Photo Image	Item No	New Value	Appraised Value	Notes
Boys Underwear	boys underwear (briefs)	100-3673	2	\$ 9.99		\$9.99 for 5 pair
	Diego boys briefs	100-3688	95	--		
	boys rocketpower briefs	100-3696	147	--		
	boys Hanes boxer briefs	100-3696	148	\$ 8.98		\$8.98 for 5 pair
	green fruit of the loom boxer briefs, m boys	100-3702	193	--		
	boys Scooby doo briefs	100-3720	307	--		
	kids nascar briefs	100-3733	450	--		
	boys batman boxers	100-3718	287	--		
	boys speed racer underwear	100-3705	217	\$ 2.87		
					\$20.00	10 briefs
Women's Underwear	women's bra	100-3673	4	\$ 6.88		
	women's purple satin panties	100-3718	285	\$ 9.99		
				\$ 16.87	\$16.87	
Men's Underwear	men's Hanes boxer briefs	100-3673	5	\$ 9.99		\$9.99 for 4 pair
	fruit of the loom men's boxer briefs	100-3687	91	--		
	xl Hanes boxer briefs	100-3700	181	--		
	fruit of the loom men's boxer briefs (holes)	100-3712	247	--		
	puritan men's boxers	100-3713	249	\$ 9.99		
	Hanes comfort soft boxer briefs	100-3718	290	--		
	men's boxer shorts	100-3731	411	--		
	fruit of the loom boxers (men's)	100-3732	422	--		
					\$20.00	
Girls Underwear	Girl Power panties, size 8	100-3688	94	\$ 8.98		\$8.98 for 7 pair
	girls Disney princess panties	100-3691	124	--		
	size 8 blue girls panties	100-3696	146	--		
	princess panties (girls)	100-3697	155	--		
	2 girls panties	100-3730	399	--		
	3 pairs girls panties	100-3734	455	--		
	Childs training bra	100-3686	80	\$ 6.88		
					\$18.00	
Towels	white bath towel	100-3701	188	\$ 9.99		
	Elmo and big bird beach towel	100-3704	199	\$ 6.00		
	blue and yellow striped bath towel	100-3704	200	\$ 9.99		
	cream and yellow swirl bath towel	100-3704	201	\$ 9.99		
	white bath towel	100-3704	202	\$ 9.99		
	pink hand towel	100-3704	203	\$ 1.17		
	blue sun and moon hand towel	100-3704	204	\$ 1.17		
	green washcloth	100-3704	205	\$ 1.17		
	pink washcloth	100-3704	206	\$ 1.17		
	white with sunflowers hand towel	100-3704	207	\$ 1.17		
	white rag	100-3704	208	\$ 9.99		
	blue and yellow frog embroidered bath towel	100-3705	209	\$ 9.99		
	blue bath towel	100-3705	210	\$ 9.99		
	white/beige bath towel	100-3705	211	\$ 9.99		
	blue and yellow striped bath towel	100-3714	252	\$ 9.99		
	4 washcloths	100-3714	253	\$ 4.68		
	3 dishtowels	100-3714	254	\$ 3.59		
	white patterned bath towel	100-3714	256	\$ 9.99		
	Pink towel	100-3682	54	\$ 9.99		
	white stained hand towel	100-3694	134	\$ 1.17		
	white/ivy bath towel	100-3694	135	\$ 9.99		
	beige bath towel	100-3694	136	\$ 9.99		
	brown bath towel	100-3694	137	\$ 9.99		
	white with purple and green stripes bath towel	100-3694	138	\$ 9.99		
	blue and yellow frog embroidered hand towel	100-3694	139	\$ 1.17		
	light purple bath towel	100-3694	140	\$ 9.99		
	lime green washcloth	100-3694	141	\$ 1.17		
	blue embroidered frog towel	100-3699	172	\$ 1.17		
	multicolored beach towel	100-3699	173	\$ 6.00		
	white with purple and green stripes bath towel	100-3699	174	\$ 9.99		
	beige bath towel	100-3699	175	\$ 9.99		
	Blue washcloth	100-3681	47	\$ 1.17		
	green washcloth	100-3681	48	\$ 1.17		
	Beige washcloth (2)	100-3682	59	\$ 2.34		

	Item_Description	Photo_Image	Item_No	New Value	Appraised Value	Notes
				\$ 215.30	\$107.65	
Blankets	homemade fleece blanket (2' square)	100-3708	218	\$ 9.99		joann.com
	homemade fleece blanket	100-3710	238	\$ 29.99		joann.com
	beige blanket	100-3722	330	\$ 24.99		
	knit blanket, orange and green	100-3723	331	\$ 24.99		
	Thomas the tank engine fleece blanket	100-3723	333	\$ 14.50		walmart.com
	Baby receiving blanket	100-3677	29	\$ 6.00		walmart.com
	white knit baby blanket	100-3692	128	\$ 6.00		walmart.com
	large blue striped rug/blanket	100-3699	176	\$ 24.99		
	blue and white checkered blanket	100-3700	177	\$ 24.99		
				\$ 166.44	\$83.22	
Bandana's	blue striped bandanna	100-3717	281	\$ 5.00		walmart.com
	The doors bandanna	100-3675	19	\$ 5.00		walmart.com
	US flag bandanna	100-3701	184	\$ 5.00		walmart.com
	green bandana	100-3720	310	\$ 5.00		walmart.com
	keep riding bandana	100-3729	392	\$ 5.00		walmart.com
	animal print bandana	100-3731	409	\$ 5.00		walmart.com
	faded fire skull bandana	100-3731	412	\$ 5.00		walmart.com
	pink Joe boxer bandana	100-3731	413	\$ 5.00		walmart.com
	American flag bandana	100-3732	416	\$ 5.00		walmart.com
	teal bandana	100-3732	425	\$ 5.00		walmart.com
	blue bandana	100-3734	462	\$ 5.00		walmart.com
	Joe boxer bandana	100-3673	7	\$ 5.00		walmart.com
				\$ 60.00	\$30.00	
Baby Items	baby diaper cover	100-3673	6	\$ 7.49		babiesrus.com
	Gerber baby hat	100-3673	8	\$ 6.00		babiesrus.com
	old navy denim baby shorts	100-3674	15	\$ 10.00		
	carters baby shirt	100-3674	16	\$ 7.99		
	Denim baby hat	100-3682	56	\$ 6.00		babiesrus.com
	baby hat	100-3689	108	\$ 6.00		babiesrus.com
	pink baby shirt	100-3702	194	\$ 7.99		
	baby fish hat	100-3733	443	\$ 6.00		babiesrus.com
	Pink old navy 12-24 mo hat	100-3686	81	\$ 6.00		babiesrus.com
	rabbitskins 12 month tie dye onesie	100-3705	212	\$ 9.88		walmart.com
				\$ 73.35	\$36.68	
Socks	1 pink childs sock	100-3681	51	\$ 4.99		
	1 childs pink sock	100-3682	58	\$ 4.99		
	1 pink striped childs sock	100-3681	52	\$ 4.99		
	White sock (adult)	100-3682	57	\$ 4.99		
	Dora childs slipper sock	100-3682	65	\$ 4.99		
	Childs brown sock	100-3686	82	\$ 4.99		
	Men's Hanes sock	100-3687	92	\$ 4.99		
	Men's sock	100-3688	93	\$ 4.99		
	adult white sock	100-3688	100	\$ 4.99		
	assorted socks (6) kids	100-3690	118	\$ 9.99		
	5 white socks	100-3702	195	\$ 4.99		
	3 non-matching socks (kids)	100-3717	283	\$ 4.99		
	3 kids socks (non matching)	100-3720	314	\$ 4.99		
	childs white sock	100-3718	293	\$ 4.99		
	2 kids socks (non matching)	100-3719	297	\$ 4.99		
	black pair men's socks	100-3731	406	\$ 4.99		
	men's white socks	100-3731	414	\$ 4.99		
	2 men's socks	100-3733	446	\$ 4.99		
	2 black socks (men's)	100-3734	461	\$ 4.99		
	3 pink socks	100-3734	456	\$ 4.99		
				\$ 94.82	\$47.41	
Hats	Black knit hat	100-3682	55	\$ 4.20		target.com
	pink princess fleece hat	100-3719	298	\$ 5.99		target.com
	kids straw hat	100-3719	300	\$ 10.00		
	white hat with logain written on it	100-3719	303	\$ 4.20		
	orange American eagle hat	100-3733	445	\$ 4.20		
	dk blue kids knit hat	100-3734	463	\$ 4.20		target.com
	boys fleece hat	100-3673	3	\$ 4.20		
	Childs blue camo hat (silver dollar city)	100-3679	39	\$ 4.20		
	black o'charley's ball cap	100-3702	192	\$ 10.00		walmart.com
	spider man ball cap	100-3731	410	\$ 10.00		walmart.com
	Childs plaid sun visor	100-3682	60	\$ 9.00		walmart.com
	green visor	100-3709	231	\$ 9.00		walmart.com
				\$ 79.19	\$39.60	
	yellow kid connection dress	100-3718	286	\$ 10.99		
	girl tribe striped dress	100-3719	296	\$ 10.99		
	clark bench kids girls dress	100-3732	418	\$ 10.99		

	Item Description	Photo Image	Item No	New Value	Appraised Value	Notes
Dresses and Skirts	Rose Cottage child's dress	100-3677	27	\$ 10.99		
	First in Line Child's Dress	100-3680	40	\$ 10.99		
	George girls 8 party dress	100-3680	42	\$ 10.99		
	Arizona child's fleece dress	100-3682	53	\$ 15.99		jcpennney.com
	Bonnie child's red and gingham dress, sz4	100-3683	69	\$ 10.99		
	High School musical dress	100-3686	79	\$ 10.99		
	McKids flower dress, size 4	100-3687	88	\$ 10.99		
	okie dokey size 3t girls dress	100-3691	121	\$ 10.99		
	medium mbjc child's jean dress	100-3696	144	\$ 10.99		
	old navy xs child's halter dress	100-3700	179	\$ 19.50		oldnavy.com
	Girls fairy princess dress-up dress	100-3715	257	\$ 27.99		target.com
	babe-o-licious blue velvet girls dress	100-3715	258	\$ 10.99		
	carol brent pink shirt dress	100-3715	259	\$ 10.99		
	Girl connection camo skort	100-3678	31	\$ 5.88		
	Child's athletic works velour skirt	100-3679	38	\$ 5.88		
	Hilliard and Hanson large flowered polyester skirt	100-3700	182	\$ 9.99		
	zoe girl kids skirt	100-3729	394	\$ 5.88		
	girls pink butterfly skort	100-3719	294	\$ 5.88		
	Child's red short sleeved dress	100-3685	74	\$ 10.99		
				\$ 250.85	\$125.43	
Stuffed Animals	stuffed snowman	100-3725	341	Returned		
	stuffed bear in orange outfit	100-3725	351	\$ 10.00		
	bear in a big blue house stuffed bear	100-3726	353	\$ 10.00		
	purple stuffed pony	100-3727	361	\$ 10.00		
	multicolored stuffed bear	100-3727	362	\$ 10.00		
	stuffed tiger	100-3728	375	\$ 10.00		
	small stuffed frog	100-3728	376	\$ 10.00		
	Lamb stuffed animal	100-3682	63	\$ 10.00		
	Cat pillow	100-3682	64	\$ 10.00		
	large frog stuffed animal	100-3693	131	\$ 10.00		
	stuffed frog with dress	100-3693	132	\$ 10.00		
	blue stuffed bear	100-3708	222	\$ 10.00		
	small stuffed frog	100-3709	235	\$ 10.00		
	stuffed giraffe	100-3716	269	\$ 10.00		
	stuffed yellow lizard	100-3716	270	\$ 10.00		
	stuffed football snowman	100-3716	272	\$ 10.00		
	stuffed duck (battery operated)	100-3717	273	\$ 10.00		
	blue stuffed koala bear	100-3717	274	\$ 10.00		
	stuffed puppy	100-3717	275	\$ 10.00		
	pony purse	100-3717	276	\$ 10.00		
	stuffed monkey	100-3717	277	\$ 10.00		
	stuffed powder puff girl	100-3717	278	\$ 10.00		
	stuffed purple bunny	100-3717	279	\$ 10.00		
	brown bear	100-3726	355	\$ 10.00		
	stuffed ghost	100-3725	349	\$ 10.00		
				\$ 240.00	\$120.00	
Dolls	doll car seat	100-3726	354	\$ 19.99		target.com
	small baby doll	100-3729	382	\$ 14.88		walmart.com
	rag doll	100-3734	464	\$ 17.99		walmart.com
	small baby doll	100-3698	158	\$ 14.88		walmart.com
	troll doll	100-3698	160	\$ 4.00		
	Barbie doll	100-3708	221	\$ 19.99		walmart.com
	small rag doll	100-3708	225	\$ 17.99		walmart.com
				\$ 109.72	\$54.86	
Pajamas	pink girls pj pants (Hannah Montana)	100-3730	397	\$ 12.99		target.com
	boys pj bottoms	100-3730	402	\$ 7.99		
	polyester pj pants (child's)	100-3675	20	\$ 7.99		
	Child's polyester pj pants, pink w/roses	100-3679	37	\$ 7.99		
	Child's SpongeBob pj pants	100-3681	44	\$ 7.99		
	Faded Glory girls small monkey pj pants	100-3686	77	\$ 7.99		
	a and a medium tie dye pj pants	100-3696	145	\$ 7.99		
	girls pink Arizona brand size 5 pj bottoms	100-3720	306	\$ 8.99		jcpennney.com
	Child's frog pajama top, simply basic 6X	100-3678	34	\$ 7.99		
	Tinkerbell pajama bottoms	100-3719	302	\$ 11.00		target.com
				\$ 88.91	\$44.46	
Jeans	boot out kids jeans	100-3730	403	\$ 7.84		
	Child's purple jean shorts	100-3676	22	\$ 8.88		
	Levi Strauss cutoff jeans, regular fit	100-3676	23	\$ 18.00		walmart.com
	Jean leg (cutoff)	100-3676	24			
	Liz Sport, petite size 8 black jeans	100-3685	76	\$ 18.00		walmart.com
	Levi Strauss cutoff jeans, button fly, 33x38	100-3696	143	\$ 18.00		walmart.com
	Levi jean shorts (cutoffs)	100-3696	149	\$ 18.00		walmart.com

	Item Description	Photo Image	Item No	New Value	Appraised Value	Notes
	Levi jean shorts (cutoffs)	100-3696	150	\$ 18.00		walmart.com
	men's cutoff dickie jean shorts	100-3702	189	\$ 18.00		walmart.com
	o.n.d classic boot cut kids jeans	100-3705	213	\$ 7.84		
	Disney kids jeans	100-3721	318	\$ 7.84		
				\$ 105.68	\$52.84	
Kids Tops	Childs division champs baseball t-shirt	100-3684	70	\$ 5.00		
	Mary Kate and Ashley girls flower shirt	100-3687	89	\$ 5.00		
	Arizona large teal heart shirt (girls)	100-3687	90	\$ 5.00		
	Size 6 light blue childs tank top	100-3688	98	\$ 4.00		
	Cartoon Network blue childs t-shirt	100-3688	99	\$ 5.00		
	old navy size 4t pink shirt	100-3690	116	\$ 10.50		oldnavy.com
	blue Arizona size 10 t-shirt (girls)	100-3691	122	\$ 5.00		
	purple childs ymca soccer jersey	100-3691	123	\$ 5.00		
	Olivia blue size 4t butterfly t-shirt	100-3696	151	\$ 5.00		
	size 5 unionbay childs polo	100-3697	152	\$ 6.00		
	Hanes beefy t size small, childs red	100-3697	153	\$ 5.00		
	yellow AAA youth medium Tucson shirt	100-3700	178	\$ 5.00		
	happiness begins with self esteem black childs shirt	100-3701	183	\$ 5.00		
	route 66 childs medium t shirt	100-3701	185	\$ 5.00		
	faded glory size 6 blue striped shirt	100-3701	186	\$ 5.00		
	crazy girl medium surf beach green shirt	100-3701	187	\$ 5.00		
	kids blue crocodile t shirt	100-3705	216	\$ 5.00		
	kids black and white sequin shirt	100-3715	260	\$ 5.00		
	childs Cinderella top	100-3716	264	\$ 5.00		
	girls pink cheetah top	100-3716	268	\$ 5.00		
	boys size 8 Spiderman shirt	100-3718	284	\$ 5.00		
	fruit of the loom kids shirt	100-3718	288	\$ 5.00		
	pink princess shirt (kids)	100-3718	289	\$ 5.00		
	boys Winnie the pooh and piglet shirt	100-3718	291	\$ 5.00		
	circle snowboarding shirt (kids)	100-3719	295	\$ 5.00		
	Barbie pink tank top (kids)	100-3719	299	\$ 4.00		
	Hannah Montana purple long sleeved size 7/8	100-3720	312	\$ 5.00		
	Cherokee kids pink shirt, 5T	100-3720	313	\$ 5.00		
	basic edition fleece shirt	100-3721	316	\$ 8.50		
	kids striped top	100-3721	317	\$ 5.00		
	glory girls club maroon kids henley	100-3721	319	\$ 5.00		
	gildan kids active wear t-shirt	100-3730	398	\$ 5.00		
	little Lindsey pink tank top	100-3730	400	\$ 4.00		
	knit works teal sparkly shirt	100-3730	401	\$ 5.00		
	center aisle white t-shirt	100-3731	407	\$ 5.00		
	girls my perfect tee size 7 pink princess t shirt	100-3734	452	\$ 5.00		
	children's place 3T white tank top (dirty)	100-3734	453	\$ 4.00		
	girls 4/5 pink Hannah Montana shirt	100-3734	454	\$ 5.00		
	pink 24m butterfly tank top	100-3674	11	\$ 4.00		
	"I rode the duck" childs t-shirt	100-3674	14	\$ 5.00		
	great escape small black t-shirt (poodle)	100-3674	17	\$ 5.00		
	little Lindsey kids shirt, 4T	100-3675	21	\$ 5.00		
	Faded Glory childs t-shirt	100-3677	28	\$ 5.00		
	The children's place 3T t-shirt	100-3678	32	\$ 5.00		
	Childs faded glory jean shirt	100-3678	33	\$ 5.00		
	Hello Kitty childs pink shirt	100-3679	36	\$ 5.00		
	Girl Tri Hoodie Size 5/6	100-3681	45	\$ 9.99		
	Old navy childs tank top	100-3681	46	\$ 7.50		oldnavy.com
	toltex tiger t-shirt (L childs)	100-3684	71	\$ 5.00		
	Faded Glory vintage polo, XS kids	100-3684	72	\$ 6.00		
	Faded glory small tank top (girls)	100-3686	83	\$ 5.00		
	boys black Nike hoodie	100-3727	366	\$ 14.99		
	faded glory small polo (kids)	100-3729	388	\$ 6.00		
	red kids fleece	100-3729	393	\$ 9.99		
				\$ 299.47	\$149.74	
Adult's Tops	champs 4xl gold t-shirt	100-3691	120	\$ 5.00		
	adult size 2xl black Applebee's t-shirt	100-3692	129	\$ 5.00		
	rue 21 size medium turquoise t-shirt	100-3697	154	\$ 5.00		
	No boundaries 2xl men's button up shirt	100-3711	241	\$ 10.00		
	hace authentics Kevin Harvick t shirt (men's)	100-3711	242	\$ 10.00		
	brown cotton t-shirt (men's)	100-3711	243	\$ 5.00		
	Men's Mr. Ice Man t-shirt (sleeves cutoff)	100-3712	244	\$ 5.00		
	Bar Louie t-shirt	100-3712	246	\$ 5.00		
	men's long sleeved striped henley (no label)	100-3713	250	\$ 10.00		
	men's 2xl brown t shirt	100-3727	363	\$ 5.00		
	b.a.t wear t shirt (men's)	100-3727	368	\$ 5.00		
	yellow white stag large shirt	100-3730	396	\$ 5.00		

	Item Description	Photo Image	Item No	New Value	Appraised Value	Notes
	Large men's cream colored shirt	100-3685	73	\$ 5.00		
	Faded Glory M blue women's shirt	100-3687	85	\$ 5.00		
	The limited women's tank top	100-3674	13	\$ 15.00		
	St. Johns Bay men's henley, size 3x	100-3683	66	\$ 10.00		
	women's bar louie tank top	100-3718	292	\$ 7.49		
	men's navy blue tank top	100-3732	427	\$ 7.49		
				\$ 124.98	\$62.49	
Swimwear	park bench child's bikini top	100-3720	305	\$ 5.00		target.com
	old navy girls bikini top	100-3720	308	\$ 7.50		oldnavy.com
	pink girls bikini bottom	100-3720	309	\$ 5.00		target.com
	girls bikini top	100-3688	96	\$ 5.00		target.com
	old navy toddler swimsuit bottom	100-3702	190	\$ 7.50		oldnavy.com
	faded glory toddler swimsuit	100-3716	266	\$ 7.00		walmart.com
	orange xl men's trunks	100-3732	419	\$ 8.00		
				\$ 45.00	\$45.00	
Kids Shorts	small boys sweat shorts	100-3710	239	\$ 9.88		
	old navy size 7 camo shorts (kids)	100-3715	263	\$ 16.00		oldnavy.com
	athletic works girls 3T black and white shorts	100-3716	265	\$ 9.88		
	blue kids shorts	100-3717	282	\$ 9.88		
	faded glory size 5 kids shorts	100-3721	315	\$ 9.88		
	boys adidas shorts	100-3673	9	\$ 9.88		
	Disney plaid shorts	100-3673	10	\$ 9.88		
	Basic Edition Size 24M pink shorts	100-3680	41	\$ 9.88		
	simply basic size 6 surf tournament shorts	100-3686	84	\$ 9.88		
	Grranimals size 4 sweatshorts	100-3690	115	\$ 9.88		
				\$ 104.92	\$52.46	
Adults Shorts	faded glory denim shorts (men's)	100-3727	365	\$ 14.50		
	columbia sportswear men's cargo shorts (poor condition)	100-3731	408	\$ 14.50		
	basic edition size 3x men's shorts	100-3712	248	\$ 14.50		
				\$ 43.50	\$21.75	
Adult Pants	leg of a pair of pants	100-3732	417	--		
	black motherhood maternity pants	100-3674	18	\$ 24.98		motherhood.com
	Nike xl track pants (fair condition)	100-3703	196	\$ 35.00		dickssportinggoods.com
	men's 2x polyester sweatpants (black)	100-3703	197	\$ 9.87		
	men's checkered 2xl PSR pants	100-3711	240	\$ 8.88		
	42x32 black cargo pants (large tear)	100-3721	321	\$ 8.88		
	faded glory carpenter pants (men's)	100-3727	364	\$ 8.88		
	fluorescent pink fishnet stockings	100-3720	311	\$ 1.19		
				\$ 97.68	\$48.84	
Kids Pants	pink camo child's sweatpants, size 5	100-3702	191	\$ 6.39		
	Pink princess pants (child's), Disney	100-3685	75	\$ 6.39		
	Pink velour pants (child's)	100-3678	30	\$ 4.88		
	Osh Kosh size 5 sweatpants	100-3686	78	\$ 4.88		
	Carters size 4T polka dot pants	100-3688	97	\$ 11.99		target.com
	athletic works boys 12 b/w sweats	100-3703	198	\$ 4.88		
	kids Hanes grey sweatpants	100-3721	320	\$ 4.88		
	kids grranimals black with silver hearts leggings	100-3705	215	\$ 3.50		walmart.com
	black with checkered sides child's leggings	100-3715	262	\$ 3.50		walmart.com
	girls brown leggings (s)	100-3717	280	\$ 3.50		walmart.com
	child's black tights	100-3720	304	\$ 6.95		walmart.com
	kids striped tights	100-3735	472	\$ 6.95		walmart.com
	kids navy blue tights	100-3729	383	\$ 6.95		walmart.com
				\$ 75.64	\$37.82	
Footwear	Pooh slipper (child's)	100-3682	61	\$ 12.99		target.com
	Frog slipper (child's)	100-3682	62	\$ 12.99		target.com
	Leather safe track slip resistant shoes, 13M	100-3683	67	\$ 24.00		walmart.com
	child's purple croc-type shoe (1)	100-3698	166	\$ 5.00		walmart.com
	shoestring	100-3698	171	\$ 1.00		
	white soft style hush puppy sling backs	100-3726	357	\$ 40.00		jcpenney.com
	silver flip flops	100-3726	358	\$ 5.00		
	3 boys sneakers	100-3728	370	\$ 15.00		walmart.com
	2 men's slippers	100-3728	371	\$ 5.99		target.com
	pair boat shoes	100-3728	372	\$ 19.99		target.com
	beige boot	100-3728	373	\$ 6.98		target.com
	polka dot espadrille	100-3728	374	\$ 19.99		target.com
	polka dot espadrille	100-3722	327	--		
	men's flip flop	100-3728	377	\$ 5.00		
	girls flip flops	100-3709	236	\$ 5.00		
	kid connection size 4 lime green flip flops	100-3722	322	\$ 5.00		
	black ballet slippers	100-3722	323	\$ 6.00		target.com
	green flip flops	100-3722	324	\$ 5.00		
	teal flip flop	100-3722	325	\$ 5.00		

	Item_Description	Photo_Image	Item_No	New Value	Appraised Value	Notes
	polka dot flip flop	100-3722	326	\$ 5.00		
	sneaker (no brand)	100-3722	328	\$ 10.00		walmart.com
	boot	100-3722	329	\$ 6.98		target.com
	flip flops	100-3733	437	\$ 5.00		
	adult Winnie the pooh slippers	100-3726	352	\$ 14.99		
	1 black slipper	100-3732	426	\$ 6.00		target.com
	knit slippers	100-3734	459	\$ 6.00		target.com
	black boot (adult)	100-3724	337	\$ 29.99		target.com
				\$ 114.96	\$57.48	
Misc.	wood candle holder	100-3735	476	\$ 9.99		target.com
	glass candle holder	100-3735	477	\$ 11.99		target.com
	lighter	100-3735	478	\$ 3.88		walmart.com
	plastic coat hangers	100-3735	479	\$ 0.50		
	paperwork	100-3735	480	--		
	spray can of olive oil	100-3735	467	\$ 3.99		
	cell phone car charger	100-3733	451	\$ 18.11		walmart.com
	fabric coin purse	100-3733	444	\$ 11.99		walmart.com
	cell phone case	100-3733	448	\$ 14.88		walmart.com
	cotton glove	100-3733	449	\$ 0.99		walmart.com
	bail bondsman paperwork	100-3732	420	--		
	kids report card	100-3732	421	--		
	2 plastic coat hangers	100-3732	423	\$ 1.00		
	wood glue	100-3729	380	\$ 5.99		walmart.com
	sweet thang kids purse	100-3727	367	\$ 11.99		walmart.com
	bike pump	100-3728	369	Returned		walmart.com
	magazines (10)	100-3724	334	\$ 20.00		
	o'charley's bar recipe manual	100-3724	336	--		
	leather duffel	100-3724	338	\$ 29.00		walmart.com
	o'charley's check booklet	100-3724	339	--		
	ceramic frog	100-3725	342	Returned		frogstore.com
	spool of thread	100-3725	343	\$ 0.99		
	ceramic frog candle holder	100-3725	344	\$ 8.95		frogstore.com
	small stereo speaker	100-3725	345	\$ 9.84		walmart.com
	small alarm clock	100-3725	346	\$ 5.00		walmart.com
	cell phone charger	100-3725	348	\$ 18.11		walmart.com
	pink headband (kids)	100-3719	301	\$ 3.29		target.com
	fairy wings	100-3715	261	\$ 14.99		target.com
	yard of black shiny fabric (batman cape?)	100-3716	267	--		
	small pink basket	100-3708	219	\$ 14.99		amazon.com
	box of candle holders (10)	100-3708	220	\$ 29.99		target.com
	decorative tin	100-3708	223	\$ 4.99		amazon.com
	white cloth diaper	100-3708	224	\$ 3.00		babiesrus.com
	large roll of twine	100-3708	226	\$ 10.00		lowes.com
	plastic coat hanger	100-3708	227	\$ 0.50		
	leather purse	100-3709	228	\$ 19.99		target.com
	dryer sheets	100-3709	229	\$ 5.00		
	misc. small items	100-3709	234	--		
	kids batman costume	100-3705	214	\$ 16.99		target.com
	small black backpack (childs)	100-3698	156	\$ 10.00		
	very small light blue bear backpack	100-3698	159	\$ 10.00		
	incense burner	100-3689	104	\$ 5.95		amazon.com
	cordless phone (no base)	100-3689	106	\$ 24.84		walmart.com
	childs plastic coat hanger	100-3689	112	\$ 0.50		
	Small green drawstring pouch (homemade)	100-3687	87	--		
	Wolverine childs costume	100-3680	43	\$ 16.99		target.com
	Tommy Hilfiger tie	100-3683	68	\$ 19.99		macys.com
	bumble bee bear backpack	100-3726	356	\$ 10.00		
	small wire basket	100-3729	384	\$ 4.99		amazon.com
	frame 8x10 wood picture frame broken during the removal	Damaged			\$10.00	
	Curved Glass 5x7 picture frame	Damaged			\$20.00	
	1 candle holder frog shape	Damaged			\$10.00	
	1 glass candy dish	Damaged			\$5.00	
	porcelain 10 in candle holder blue with flowers	Damaged			\$10.00	
	1 frog couple on a swing				\$10.00	
	oil funnel	100-3733	429	\$ 2.69		napaonline.com
	red rubber ball	100-3733	435	\$ 4.99		target.com
	small green glass	100-3733	436	\$ 4.99		walmart.com
	2 gloves	100-3734	465	\$ 5.99		walmart.com
				\$ 432.84	\$216.42	
	White pillowcase	100-3730	395	\$ 7.99		target.com
	navy blue pillow case	100-3730	404	\$ 7.99		target.com
	acorn patterned pot holder	100-3730	405	\$ 5.50		walmart.com

	Item_Description	Photo_Image	Item_No	New Value	Appraised Value	Notes
Linens	teal sheet	100-3723	332	\$ 11.99		
	Barbie sleeping bag	100-3710	237	\$ 12.00		walmart.com
	Dk Blue Pillowcase	100-3712	245	\$ 7.99		target.com
	full size comforter	100-3713	251	\$ 19.00		
	placemat (green)	100-3714	255	\$ 1.99		target.com
	Bratz Petz fleece fabric	100-3691	119	\$ 5.00		
	cloth placemat	100-3691	125	\$ 1.99		target.com
	white cotton table runner	100-3691	126	\$ 12.00		walmart.com
	cloth placemat (2)	100-3692	127	\$ 4.00		target.com
	yellow handkerchief/placemat	100-3692	130	\$ 1.99		target.com
	pillow and cat pillow case	100-3693	133	\$ 7.99		target.com
	green shiny comforter	100-3695	142	\$ 19.00		
	White pillowcase	100-3681	49	\$ 7.99		target.com
	Vase of fake roses	100-3676	25	\$ 5.24		target.com
	Homemade fleece scarf	100-3679	35	\$ 4.18		target.com
				\$ 143.83	\$71.92	
Toiletries	toothbrush holder w/toothbrush and razors	100-3729	378	\$ 15.00		target.com
	small rubber duck	100-3729	379	\$ 18.00		walmart.com
	rubber duck	100-3733	433			
	rubber duck	100-3726	360			
	small rubber duck	100-3735	474			
	kids body wash	100-3729	385	\$ 4.39		target.com
	q-tips	100-3729	386	\$ 5.74		walmart.com
	herbal essences shampoo	100-3729	387	\$ 4.00		walmart.com
	alpine x-treme face and body wash	100-3729	389	\$ 3.00		walmart.com
	garnier shampoo	100-3729	390	\$ 4.54		target.com
	q-tips	100-3724	335	\$ 5.74		walmart.com
	frog soap dispenser	100-3725	340	\$ 12.99		target.com
	hair tie	100-3698	165	\$ 2.19		target.com
	ace bandage wrap (2)	100-3690	117	\$ 9.99		target.com
	ace knee brace, child size	100-3674	12	\$ 13.99		target.com
	ace bandage	100-3731	415	\$ 9.99		target.com
	wrist brace	100-3732	424	\$ 11.99		target.com
	2 bottle shampoo	100-3733	428	\$ 8.00		walmart.com
	axe body wash	100-3733	430	\$ 3.84		target.com
	fairy toothpaste	100-3733	431	\$ 3.99		target.com
	box of tampons	100-3733	432	\$ 3.84		target.com
	degree deodorant	100-3733	434	\$ 2.34		target.com
	cotton balls	100-3733	438	\$ 1.20		target.com
	soap dish	100-3733	439	\$ 9.99		target.com
	bath poof	100-3733	440	\$ 2.99		target.com
	frog lotion pump	100-3733	441	\$ 12.99		target.com
	bottle of cologne (black extreme)	100-3733	442	\$ 25.95		fragrancex.com
	q-tip holder (Johnson & Johnson)	100-3733	447	\$ 2.99		target.com
	Avon sunscreen wipes	100-3734	458	\$ 6.99		avon.com
	black scrunchie	100-3734	460	\$ 1.60		target.com
	vo5 shampoo	100-3735	468	\$ 5.00		
	tampons	100-3735	469			
	ceramic toothbrush holder with kids toothbrushes	100-3735	470	\$ 15.00		target.com
	duck ceramic soap holder	100-3735	471	\$ 9.99		target.com
	trial sized head and shoulders shampoo	100-3735	475	\$ 2.00		
				\$ 240.25	\$100.00	
Toys	huggy pup album cloth book	100-3689	103	\$ 6.25		target.com
	rubber dog	100-3689	105	\$ 1.00		
	kids plastic jewelry	100-3689	109	\$ 1.00		
	pink plastic canvas with return address stickers	100-3689	110	\$ 5.00		
	toy bus	100-3689	111	\$ 2.00		
	plastic easter egg half	100-3689	113			
	plastic monkey from barrel of monkeys game	100-3689	114			
	transformer mask	100-3725	350	\$ 19.50		amazon.com
	batman car carrier	100-3726	359	\$ 15.00		
	rubber troll	100-3709	230			
	gingerbread man toy	100-3709	232			
	plastic jewelry	100-3709	233			
	pt cruiser toy car	100-3698	157	\$ 4.99		
	pink butterfly	100-3698	161			
	plastic food	100-3698	162	\$ 1.00		
	little mermaid cell phone	100-3698	163	\$ 1.00		
	plastic penguin	100-3698	164			
	checker piece	100-3698	167			
	childs plastic bangle	100-3698	169			
	small rubber frog	100-3698	170	\$ 1.00		

	Item Description	Photo Image	Item No	New Value	Appraised Value	Notes
	red beanie dog		100-3700	\$ 180	\$ 1.00	
	Yellow hot wheels car		100-3687	\$ 86	\$ 4.99	
	Misc. plastic toy		100-3681	\$ 50	\$ 1.00	hotwheels.com; price for 5
	Sit and Spin		100-3676	\$ 26	\$ 19.96	walmart.com
	finger puppet glove		100-3729	\$ 391		
	plastic boat		100-3734	\$ 457	\$ 1.00	
	kids pink bracelet		100-3735	\$ 466	\$ 1.00	
	plastic bambi		100-3735	\$ 473	\$ 2.00	
				\$ 88.69	\$88.69	
Belts	gold sequined belt		100-3716	\$ 271	\$ 11.88	target.com
	black belt		100-3725	\$ 347	\$ 11.88	target.com
	2 leather belts		100-3729	\$ 381	\$ 30.00	target.com
				\$ 53.76	\$54.00	
Dishware	small plastic pink bowl		100-3698	\$ 168	\$ 0.99	target.com
	Green plastic bowl		100-3689	\$ 101	\$ 0.99	target.com
	green plastic plate		100-3689	\$ 102	\$ 0.99	target.com
	small pink plastic plate		100-3689	\$ 107	\$ 0.99	target.com
				\$ 3.96	\$4.00	
Larger Items	Whirlpool Heavy Duty XL Capacity 7-cycle washer	100-3741 and 3742	481	Returned		Returned
	Kenmore Ultra Fabric Care Dryer	100-3743 and 3744	482	Returned		Returned
	Toilet, no brand	100-3745 and 3746	483	Returned		Returned
	Hotpoint Electric Stove, 4-burner	100-3747 and 3748	484	Returned		Returned
	Twin mattress and box-spring, Luxury Royal by American Sleep Products Inc.	100-3749 and 3750	485	CMC Purchased from Mattress Express		
	King Box Spring (2 pieces), Stearns and Foster	100-3751 and 3752	486	\$ 100.00	\$100.00	
	King Mattress, Tempurpedic (Advanced Urethane Technology)	100-3753 and 3754	487	\$ 300.00	\$300.00	
	Three Piece Sectional Sofa, no brand	100-3755 through 3758	488	CMC Reimbursed \$100 for sofa purchase 7-6-10		
				Appraised Total	\$2,292.60	
I understand that the items listed above will be destroyed by the U.S. EPA and that I will be reimbursed for the items as requested (in accordance with the appraised value). Returned items were checked for condition and damaged items were included in this log.						
Signature			Date:	7-6-10		
Signature			Date:	7/6/10		
Signature			Date:	7-6-10		
Benjamin Franco - On Scene Coordinator						

APPENDIX D
LOGBOOK NOTES
(25 Pages)

"Outdoor writing products for outdoor writing people."



RECYCLABLE

"Rite in the Rain" - A unique All-Weather Writing paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

Available in a variety of standard and custom printed case-bound field books, loose leaf, spiral and stapled notebooks, multi-copy sets and copier paper.

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Item No. 371

ISBN 1-932149-23-6

©

US PAT NO: 6,863,940



6 32281 37111 3

BUTLER RD. MERCURY SPILL
HOAKINSVILLE, KY.

103DX90170001.0130.0001

FIELD BOOK: 01



"Rite in the Rain®"

ALL-WEATHER
UNIVERSAL

No. 371

ITEM#-05-001-0130

Butler Road Mercury Spill

Logbook # 1

Species	Month 1	Month 2	Month 3	Month 4	Month 5
1. Common carp	45	35	30	25	20
2. Bream	30	45	35	30	25
3. Roach	5	5	5	5	5
4. Perch	5	5	5	5	5
5. Pike	25	20	15	10	5
6. Eel	15	30	25	20	15
7. Catfish	5	5	5	5	5
8. Tench	5	5	5	5	5
9. Sturgeon	5	5	5	5	5
10. Herring	5	5	5	5	5



Address _____

Phone _____

Project _____

Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

[illegible]

6-25-10

C. Croft
Farmer
Caruthers
Blattner

0730 - CHRISTIAN CO. HEALTH DEPT.
 START - B. CROFT, J. CARUTHERS,
 V. FARMER - TETRA TECH, G. BLATTNER
 SEAGULL.

OSC - EPA - ART SMITH
 - BEN FRANKO

0745 - LUMEX HQ - CAL. R⁹10-8
 " 144 - CAL. R⁹10-7

0730 - TT, EPA-OSCs, KY-DEP MEET-
 ING.

0830 safety mtg of OSC Farmers, CMC, START

0935 - ON SITE 4134 MADISONVILLE
 RD. PREP. TO ENTER 4134

0944 - SCOTT'S SHOES 41,000 ng/m³

0947 - SCAN GML JIMMY

350 ng/m³ BREATH. ZONE

10,000 ng/m³ DRIVER FLOORBOARD.

0950 ENTER 4134 w/ JEROME METER.

1002 " " " LUMEX "

~~CLOSE DOORS & WINDOWS. 4100~~

LOCATION	JEROME ng/m ³	LUMEX ng/m ³
1 INSIDE FRONT DOOR (BZ)	0	12,000
2 LIVING RM (BZ)	0	1900
3 LIVING RM FLOOR	0	—

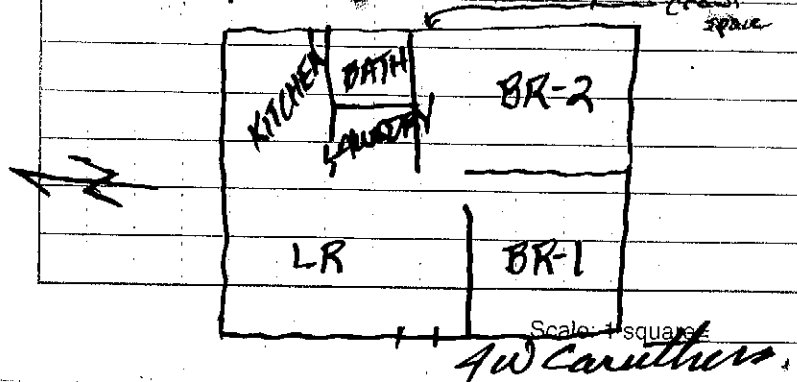
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JW Caruthers

6-25-10

LOCATION	JEROME ng/m ³	LUMEX ng/m ³
BEDROOM 1 (BZ)	0	1500
" 2 "	0	2800
LAUNDRY RM (BZ)	0	2600
BATHROOM (BZ)	.007	2500
KITCHEN (BZ)	0	2200
" SINK	.005	2000
FRONT DOOR FL VENT	—	25,000
CUSHIONS ON FL	—	5,000
LAUNDRY RM FL	—	8,000
DRYER	—	5,000
BATHROOM SINK	—	34,000
BATHROOM FL VENT	—	22,000
BEDROOM 2 FLOOR	—	12,000
" 1 "	—	3-4,000
KITCHEN FL VENT MAT	—	5,000
" FL	—	8,000

4134 HOUSE LAYOUT



6-25-10

1040 GMC Jimmy after vacuuming
 Drivers Floorboard - 25,000 ng/m³ - LUMEX
 " Above Floor area - 8,000 ng/m³
 Passenger Seat - 300 ng/m³
 " Floorboard - 6,000 ng/m³
 Driver's seat - 300 ng/m³
 1050 GMC merc racing GMC Jimmy floorboard
 and clean out debris - also using Hg X solution
 to wipe down plastic surfaces
 note: ~ 1-pint bottle (approx 1/2 - 3/4 full) of mercury
 was transferred to a 5-gal bucket - bottle
 was "returned" overnight & was sitting on
 trailer attached to GMC Jimmy
 note: OSC Smith requested that Rcms be
 sent to OSC Franco for this TDD - OSC
 Smith is demoing later today
 1200 LUNCH
 1230 @ IC discussing site ops
 - Inspector C. Cloos (Hopkinsville FD)
 - Det. Berghammer (Sheriff)
 - Butler Rd location was reportedly used as
 a storage area for Western St. Hospital (approx
 100-yrs ago) - "Scott" was helping to
 clean out the barn @ Butler Rd location →

Scale: 1 square=

BSC 6-25-10

6-25-10

the he tracked back to 4134 Madisonville
 Rd location → then "moved" to 4136
 Madisonville Rd residence where he is
 currently staying
 1255 back @ 4134/4136 Madisonville Rd
 1300 CAL. LUMEX 16A - R% 19
 " " 834 - R% 9
 " " 149 - R% 13
 1335 SCAN BAGGED ITEMS.
 1500 RE-SCAN GMC JIMMY
 BZ - 1540 ng/m³
 FLOORBOARD - 35,000
 1508 SCAN BAGGED ITEMS.
 AIR OUT HOTTER ITEMS ON PLASTIC
 SHEETING > 10,000 ng/m³
 1734 @ re-scan GMC Jimmy after carpeting
 was cut out from driver's side floor
 max rdg on floor = 3000 ng/m³
 1800 Screen Bush Coffee House
 1st level - max rdg = 30 ng/m³
 basement - max rdg = 30 ng/m³ →
 BSC 6-25-10

Scale: 1 square=

6-25-10

summary of day's activities

4134 Madisonville

- initial screening / screened/cleaned Gmc Jimmy
- removed items from living room, bedroom 1, &

laundry

- removed carpet from same rooms

- screened bagged items

- retrieved & containerized bottle of mercury

- supported IC (osc Smith)

- screened Rush coffee house - clear

1830 START OFFSITE

BS- 6-25-10

Scale: 1 square=

6-26-10

0720 START onsite

0735 safety mty - heat stress (HI > 100)

0750 Lunex screening of house - ventilation in progress

600 - 800 ng/m³ throughout most of house6,000 ng/m³ in bathroom5,000 ng/m³ in kitchen

0800 CMC begins removing items from BR 2

To screening/segregating bagged items

1055 CMC removing last of items from kitchen

START screened furniture items currently under plastic in front of house

Lunex = 5,000 - 6,000 ng/m³

1130 SCREEN HOUSE (results on following page) - HgX solution still present on floor

1300 re-screen house

levels have dropped to approx 1,600 ng/m³ throughout house

spate of osc from - CMC will clean house one more time w/ HgX and wipe down - allow to dry - then rescreen

BS- 6-26-10

Scale: 1 square=

Scale: 1 square=_____

10-26-10

BSC 6-26-10

Scale: 1 square=_____

06-27-10

0655 START onsite

Luma #164 - R# = 11

0740 initial screen of house (BZ) 84.0°F

LR 1990

BR1 1250

BR2 1150

LAUNDRY 1990

BATH 2900

KITCHEN 1720

BATH VENT 24,000

" SINK 5000

0749 - EXIT HOUSE

0755 - inspected crawl space @ rear of house

- > 50,000^{nt} inside crawl space door
- identified beads of mercury
- OSC Franco directs CMC to merc-vac reachable crawl space area where beads are located (basically w/in arms reach of door - very nasty crawl space)
- OSC Franco will first call Sheriff back to let him assess

1010 CMC using merc vac to clean up beads of mercury @ crawl space door

B/C 6-27-10

Scale: 1 square=

10-27-10

1100 Rescreen house

500-900 ng/m³ throughout most of house4,000 ng/m³ - BATH10,000-12,000 ng/m³ - BATH VENT35,000 ng/m³ - CRAWL SPACE (PLASTIC ON GROUND)

1130 OSC Franco directed CMC to seal

all floor vents inside house

- also will place large fans to ventilate

crawl space to try to isolate interior of house from crawl space

note: CMC also removed p-traps from both the bathroom & kitchen sink drains

water from p-traps = 43,000 ng/m³

1245 Re-screen house

~ 200-250 throughout

- all floor vents are sealed and crawl space ventilation on progress

- continue to screen personal items

1345 CMC shuts down crawl space ventilation to see effect on remainder of house

note: HVAC system for house was removed & likely sold for scrap according to Sheriff

B/C 6-27-10

Scale: 1 square=

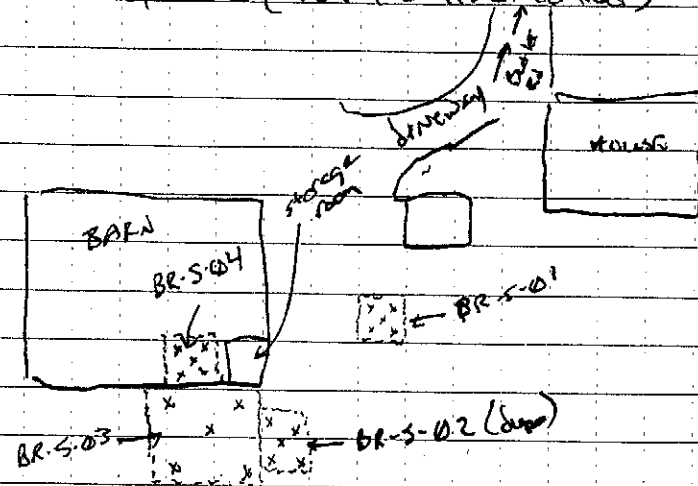
6-27-10

11:10 BSC
 1520 Rescreen house (glass vents sealed / no ventilation) ^{created and}
 LR 600-700 ng/m³ (B2)
 BR1 700-800
 BR2 600-700
 LAUNDRY 600-700
 BATH 600-700
 KITCHEN 600-700
 CRAWL SPACE 40,000 (inside door)
 OSC Franco directed ERS to set up crawl space
 and house interior ventilation w/ large fans
 for overnight
 - planning to begin removing debris to access
 crawl space
 1600 START has completed photo-documenting
 cleared items for return
 - now beginning to re-screen items that
 were > 10,000 ng/m³ which have
 been baking in sun for ~ 2 days
 - items < 10,000 ng/m³ = return
 - items > 10,000 ng/m³ = inventory &
 dispose
 1715 offsite - to Walmart to pick up supplies for
 soil sampling @ Butler Rd location w/ OSC Franco

Scale: 1 square=

BSC 6-27-10

6-27-10

1815
 1825 ① 3915 Butler Road to collect
 confirmation soil samples for area of excavation
 done by CMC (under the KDEP contract)

 1825 collect BR-S-02 (B. Crane) - duplicate also
 collected
 1830 collect BR-S-01 (B. Franco)
 1840 collect BR-S-04 (B. Crane)
 1845 collect BR-S-03 (B. Franco)
 1920 depart 3915 Butler Rd - pick up
 ice & package samples.
 - download photos
 2030 end of day
 BSC 6-27-10

Scale: 1 square=

6-28-10

0655 on site

morning meeting

+ HOS

+ CMC to shut off fans & start with so
quick screening of house

+ CMC to begin removing floor to try to find
source of mercury vapors in crawl space

0735 Re-screen house

house = 200-300 throughout (81.5°F)Crawl space = ~~4,200~~ $42,000 \text{ ft}^3$ (@ door)

0830 CMC begins removing floor from bathroom
START continues photo documenting cleared
items

1035 OSC Franco re-screened ^{crawl space} ~~basement~~

after floor from bathroom removed - detected

Mercury identified - likely dropped as floor
was removed - seen beneath bath vent

- CMC to vac up and remove misc. debris
from basement (door, debris, etc)

1120 more elemental mercury identified in
crawl space along eastern wall (rear of house)

- CMC will continue recovery ops

1140 spoke w/ EPA Sherril Carboneo regarding
appraised values for personal items - START will

Scale: 1 square = _____

BSC 6-28-10

6-28-10

preliminary assign values based on previous
mercury response appraisals and forward to her
and OSC Franco for review

1215 one of Rush sons was burning brush
along Madisonville Rd - OSC Franco contacted
authorities - it was disrupting site ops due
to smoke - Sheriff & HFD responded -
extinguished fire & arrested Rush son

1300 CMC continues recovery ops in
crawl space

START continues inventorying items
> $10,000 \text{ ft}^3$

1530 OSC Franco & START assess crawl
space situation

- Numerous bricks observed on ground and on
choker block wall

1600 START Curtis on site - discuss territory/sz etc

1710 Sheila Gant ((270) 874-7799)

7230 Madisonville Rd

Hopkinsville, KY

- Scott was reportedly demolishing 2 jetboats
@ site - GME Jimmy

- Mrs. Gant stated her dog died yesterday &
dog's head was hanging low

BSC 6-28-10

Scale: 1 square = _____

6-28-10

1730 @ Galt Property (7230 Madisonville)

- screened utilities being demolished beside
horse pen

- no readings above background (2.4 ng/m^3)

1800 depart Galt Property

end of day

BSC 6-28-10

Scale: 1 square=

6-29-10

0700 START ^{onsite} ~~at Galt~~ ac

- transition w/ T Curtis

- morning briefing

0740 re-screen house ~ 85% ^{LF}LR $18,000 \text{ ng/m}^3$ ($6,000 \text{ ng/m}^3$ in crawl space beneath BA floor)BR 1 $13,000 \text{ ng/m}^3$ BR 2 $18,100 \text{ ng/m}^3$

LAUNDRY - (floor removed)

BATH - (floor removed)

KITCHEN $19,200 \text{ ng/m}^3$ CRAWL SPACE $55,000 \text{ ng/m}^3$ (door created)

0750 CMC clearing weeds/debris

0825 START inventorying items on front yard

- washer, dryer, stove, sofa, etc.

0902 CMC ENTER CRAWLSPACE TO CAPTURE ELEMENTAL MERCURY USING VACUUMS AND STAINLESS STEEL SPONGES

1004 START CROFT DEPARTS SITE AND RETURNS TO ATLANTA

1036 STANB. Laid OUT PERSONAL ITEMS THAT WERE PACKED

FOR DISPOSAL SO THE OWNERS COULD HAVE AN
OPPORTUNITY TO LOOK OVER THE ITEMS PRIOR TO
DISPOSAL.

1052 ERCS REPORTED THAT 3 LARGE BEADS OF MERCURY

WERE DISCOVERED ALONG THE CINDER BLOCK WALL
DURING VACUUMING AND SCOOTING ACTIVITIES. ERCS

BSC 6-29-10

Scale: 1 square=

6-29-10

REPORTED THAT A SMALL AMOUNT WAS ALSO STILL
PRESENT ON THE CINDER BLOCK WALL.

1125 FERS EXIST THE CRAWL SPACE

1229 FT ENVIRONMENTAL RESPONSE ON-SITE

1700 OSC FRANCO AND START CURTIS DRESS OUT IN LEVEL
C PPE IN PREPARATION OF AN ENTRY INTO THE CRAWL
SPACE. LUNCH STARTED AND TEST CELL INITIATED.
R=10. OSC FRANCO AND START CURTIS ENTER
CRAWL SPACE. AIR READINGS FLUCTUATED BETWEEN
3,000 - 6,000 ng/m^3 . TWO HOLES IN THE CINDER
BLOCK WALL READ $>55,000 \text{ ng}/\text{m}^3$. REGULAR READINGS
ALONG THE WALL/FOIL INTERFACE WERE 9,000 - 25,000
 ng/m^3 . EPA AND START EXIT CRAWL SPACE.

1320 START COLLECTED A READING FROM A HOLE LOCATED
ON THE EXTERIOR WALL THAT WAS $>55,000 \text{ ng}/\text{m}^3$.
CNC CONTINUES VACUUMING AND SCOPING ACTIVITIES.

1415 CNC COVERS AREA ALONG CINDER BLOCK WALL
w/ AEROSORB AND WILL LET IT SIT OVERNIGHT.

1715 ALL PERSONNEL OFF-SITE.

7.4.
6-29-10

Scale: 1 square=

6-30-10

0700. START, EPA, CNC ON-SITE. CONDUCT AIRWORK
DRILL.

0736 START TURNS ON LUNCH / TEST RUN R=6.

0745 RE-SCREEN HOUSE TEMP 75°F

LR	250 ng/m^3
BZ1	146 ng/m^3
BZ2	142 ng/m^3
LAUNDRY	218 ng/m^3
BATH	205 ng/m^3
KITCHEN	192 ng/m^3

BUREAU CONCENTRATIONS RANGED FROM 600 - 2400 ng/m^3

0811 CNC CONTINUES VACUUMING AND SCOPING ACTIVITIES.
HOLES IN GROUND HAVE BEEN SEALED ROOMS HAVE BEEN
CLOSED TO SEPARATE THE ROOMS.

0856 CNC IS WAITING ON A NOSE TO REPLACE ONE THAT
IS CHARGED ON THE VACUUM.

0929 START ENTERS RESIDENCE TO COLLECT SCREENING LEVELS.
TEMP: 75.7°F

LR	275
BZ1	93
BZ2	140
LAUNDRY	266
BATH	340
KITCHEN	236

7.4. 6-30-10

Scale: 1 square=

6-30-10

CRAWL SPACE READINGS RANGED FROM 950-2400.	
1000	START SCREENS PART OF PERSONAL ITEMS THAT HAD PREVIOUSLY FAILED SCREENING ADVISORS THAT THE OWNER WANTED TO KEEP. ALL ITEMS WERE BEING 10,000 ng/m^3 AND MORE REMOVED FROM THE PRESENT LIST.
1101	START ENTERS RESIDENCE w/ LUNCH TO CONDUCT ANOTHER SCREENING ROUND. TEMP: 80.4°F
LR	205
BR1	85
BR2	622
LAUNDRY	293
BATH	426
KITCHEN	176
CRAWL SPACE READINGS RANGED FROM 2400-5500 ng/m^3	
1311	START ENTERS RESIDENCE w/ LUNCH
TEMP: 81.5°F	
LR	666 ng/m^3
BR1	292 ng/m^3
BR2	905 ng/m^3
LAUNDRY	736 ng/m^3
BATH	685 ng/m^3
KITCHEN	533 ng/m^3
CRAWL SPACE READINGS RANGED FROM 1100-5500 ng/m^3	

Scale: 1 square=

7.4 6-30-10

6-30-10

1417	START ENTERS RESIDENCE w/ LUNCH TO CONDUCT ANOTHER SCREENING ROUND. TEMP: 88.7°F
LR	659 ng/m^3
BR1	325 ng/m^3
BR2	386 ng/m^3
LAUNDRY	779 ng/m^3
BATH	807 ng/m^3
KITCHEN	672 ng/m^3
CRAWL SPACE READINGS RANGED FROM 980-3700 ng/m^3	
HOLE IN THE EXTERIOR CONCRETE BLOCK WALL: 7000 ng/m^3	
FRONT PORCH READINGS w/ PILE OF LEAVES 30,000-60,000 ng/m^3	
1532	CNC DISPOSED OF MATTRESS, COUCH, AND PERSONAL ITEMS THAT HAD FAILED SCREENING.
1616	CNC REMOVED PACKAGING WARE IN THE LAUNDRY AND BACKLASH FLOORS BT INSTALLING A NEW SUB-FLOOR.
1820	CNC COMPLETED SURFACING AND SEAL SEAMS w/ DUCT TAPE.
1870	PLAN FOR TOMORROW IS TO CLEAN THE HOUSE BEGINNING @ 0730. CNC INFORMS EPA THAT DIRT IS BEING DELIVERED @ THE BURN AT 0800. TO COMPLETE THE BURN AREA. ALL PERSONNEL OFF-SITE.

Scale: 1 square=

7-1-10

0700 EPA, START, AND BROS. ON SITE. CONDUCT MORNING
BRIEF. PLAN TO BEGIN CLEARANCE @ 0730.
DUST WILL BE DECONTAMINATED TO BARN @ 0800.
START WILL SCREEN BACK OF DUST LAYER w/
LUNCH.
0746 LUNCH IS TURNED ON AND ALLOWED TO WARM
UP. 2:12
0733 EPA AND START ENTER RESIDENCE TO BEGIN
CLEARANCE SCREENING.
0751 EPA AND START EXIT RESIDENCE: ROUND 1 COMPLETE
0802 CMC USE SKIDSTEER TO BRING 3 55-GAL DRUMS
OF MERCURY-CONTAMINATED WASTE FROM THE BACK
TO THE FRONT.
0844 EPA AND START ENTER RESIDENCE TO CONDUCT
CLEARANCE SCREENING.
0901 EPA AND START EXIT RESIDENCE: ROUND 2 COMPLETE
0941 EPA AND START ENTER RESIDENCE TO CONDUCT CLEARANCE
SCREENING.
0959 EPA AND START EXIT RESIDENCE: ROUND 3 COMPLETE
1021 START SCREENS BACK OF DEBRIS FROM CHASE
SPACE: BINS $< 5,000 \text{ ng/m}^3$ ARE PLACED IN THE
RULLOFF, WHILE BINS OF DEBRIS $> 5,000 \text{ ng/m}^3$ ARE
PLACED IN DRUMS. 3 ADDITIONAL DRUMS OF WASTE
ARE GENERATED. A TOTAL OF 6 DRUMS HAVE BEEN COLLECTED.

Scale: 1 square = _____

7.4 7-1-10

7-1-10

1050 START AND EPA ENTER RESIDENCE TO CONDUCT
CLEARANCE SCREENING.
1106 START AND EPA EXIT RESIDENCE: ROUND 4 COMPLETE.
1144 OSC FRANKO WANTS TO COLLECT SOME SOIL AND
LOOK FROM AROUND THE FRONT PORCH TO CONFIRM THAT
AN ADDITIONAL MERCURY IS PRESENT. BARS OF MERCURY
ARE OBSERVED IN THE ROCK AT THE NW CORNER OF
THE CONCRETE PAD. FURTHER INVESTIGATION REVEALED
A LARGE PUDDLE OF MERCURY NW OF THE CONCRETE
PAD. PHOTOGRAPHS TAKEN.
1151 START ENTERS RESIDENCE TO CONDUCT CLEARANCE
SCREENING.
1206 START EXITS RESIDENCE: ROUND 5 COMPLETE.
1211 START SHOWS THE AREA OF MERCURY TO CMC.
CMC COLLECTS THE MAJORITY OF THE FREE MERCURY
UP AN ASPIRATION BOTTLE. OSC FRANKO TAKES CMC
WITH COATING THE REMAINING MERCURY W/ ACETEX
AND COLLECTING IT W/ A VACUUM.
1250 START ENTERS RESIDENCE TO CONDUCT CLEARANCE
SCREENING.
1308 START EXITS RESIDENCE: ROUND 6 COMPLETE.
CMC CONTINUES VACUUM OPERATIONS OF FREE
MERCURY.
1355 START ENTERS RESIDENCE TO CONDUCT CLEARANCE SCREENING

Scale: 1 square = _____

7.4 7-1-10

7-1-10

1411 START CURTIS RESIDENCE: Round 7 complete.

CNC HAS COMPLETED VACUUM OPERATIONS AT THE NW CORNER OF THE CONCRETE PAD. CNC HAS BEGUN PAINTING THE CONCRETE PAD w/ ADHESIVE PAINT.

1452 SEAT ENTERS RESIDENCE TO CONDUCT CLEARANCE SCREENING.

1513 START CURTIS RESIDENCE: Round 8 complete.

AVERAGE OF THE 8 READINGS PER ROOM:

LR 553 ng/m³BR1 204 ng/m³BR2 254 ng/m³BATH 381 ng/m³KITCHEN 402 ng/m³

NO LAUNDRY READINGS WERE COLLECTED AS IT IS ESSENTIALLY THE LR AND OSC FRANKO INDICATED THAT IT WASN'T NECESSARY.

1537 CNC USES THE TRACK DECONTAMINATOR TO DISINFECT

W/ SOIL FROM AN APPROX 6 FT² AREA AT THE

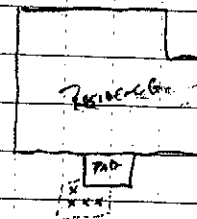
NW CORNER OF THE CONCRETE PAD. CNC ALSO PERFORMS REMEDIATION OF THE PATHERSON SEWER AND CAPTURES ALL SEWER VENTS.

1647 OSC FRANKO TRAILS START w/ COLLECTING A COMPOSITE SOIL SAMPLE FROM THE NW

Scale: 1 square= 7.4 7-1-10

7-1-10

CORNER OF THE CONCRETE PAD.



1721 COLLECT SAMPLE PR-5-05 (T.C. CURTIS)

SAMPLE IS PLACED ON ICE FOR DELIVERY TO TERRAMERICA

1900 CNC IS COMPLETING WORK ON THE PATHERSON

SEWER AND VENTS. OSC FRANKO INFORMS SEAT TO STAND DOWN FOR THE DAY. SEAT CURTIS OFF-SITE.

7-1-10

Scale: 1 square=

7-2-10

0715 START CURTIS ON-SITE. CMC TO REPAIR PLUMBING
FIXTURES AND PREPARING TO DEMO.

0930 CMC HAS COMPLETED SOME OF THE PLUMBING
FIXTURES AND PLAN TO COMPLETE THE REMAINING
FIXTURES ON TUESDAY 7-6-10. START CURTIS
DEPARTS SITE TO DELIVER SOIL SAMPLE FROM
THE FRONT CONCRETE PAD TO TEST AMERICA IN
NASHVILLE, TN.

1200 START CURTIS DELIVERS SOIL SAMPLE TO TEST
AMERICA.

0555 START CURTIS ARRIVES IN LOUISVILLE, KY
RETURNS RENTAL VEHICLE.

7-2-10

Scale: 1 square=_____

BSK 7-12-10

Scale: 1 square=_____



"Rite in the Rain"
ALL-WEATHER
JOURNAL
No. 390N

ENC-05-001-0130

Water Road Mercury Spill

Logbook # 2

No. 390N # 'D JOURNAL - POLY



6 32281 39031
10000 178 1-83 149-38-8

[illegible]

Name _____

Address _____

Phone _____

Project

Project Mercury Project Hopkinsville
KY

Specifications for this book:

Page Pattern		Cover Options	
Left Page	Right Page	Polydura Cover	Fabrikoid Cover
Lined	Lined	Item No. 390N	Item No. 390NF

6-24-10

Coffe
Farmer
Carruthers
Blattner

1430 depart Tt Duluth, GA office for mobile location
(Eastern Time)

1840 arrive @ Hampton Inn - Hopkinsville, KY
(Central Time)

2130 spoke w/ OSC Art Smith

- meet tomorrow morning @ 0730 @ Christian
County Health Dept. (1700 Canton St.,
Hopkinsville, KY)

- Madisonville Rd residence appears to be only house
so far that needs cleanup ~ 10,000 ng/m³

@ entrance - also a car needs cleanup

BSC 6-24-10

6-25-10

Coffe
Farmer
Carruthers
Blattner

@ 0730 @ Christian City Health Dept for meeting
OSC Smith KDEP Larry Tischer (arrived on scene 6-22
for initial cleanup)
OSC Franco (270) 571-9224

4134 Madisonville Pike

- survey, 10 hot items, remove hot items

- mitigate Hg in car

Christian City Em

Randy Graham (270) 889-6969

- goal is 1,000 ng/m³

- order issued to prevent residents staying in house on
Madisonville Pike (4134)

- residents @ 4136 Madisonville have scheduled testing
for children (neighborly house) - Rush family
↳ one girl is pregnant

Madisonville location
- > 100 ug/m³ outside & on carpet @ Frank's Bar
~ 15-16 ug/m³ ambient air @ Janney

- 2 bags clothing removed by owner = > 100 ug/lb
- high Hg in general vicinity of house where he
likely worked around

- small house - 1,300 sq ft

- sharps/needles likely present - Dilatid injections??

Butler Rd location - soil samples for disposal purposes

Salvage Yard - to be determined based on status
of mercury container

BSC 6-25-10

Craft
Farmer
Candler
Blattner

6-25-10 - Farmer

0940 - container of mercury located on the back of the trailer attached to the Jimmy,

Health Dept would like to re-check Rush

Fresh Coffee b/c its a public eating establishment

3/4 full pint, plastic bottle of Hg.

- Developed spreadsheet with screening results for each of the 4 sites (4134 & 6 Madisonville, Rush Fresh Coffee & 3915 Butler)

1330 - arrive at site + screen bags

1730 - TT offsite. VIF

VIF

BSC 6-26-10

Craft Caruthers
Farmer Blattner

6-26-10 TT arrives onsite @ 0730

Health & safety meeting w/ EPA & community

Calibrate Lumex Machines

834: R% 3

1439: R% 3

Brian re-checked air in house. Readings 600-700, hot in kitchen & bathroom.

0802 CMC enters house + begins removal of items. TT begins scanning bags removed.

0933 bedroom 2 finished.

BRIAN Re-Screening items, some final scan (clean) others to be re-tested later.

0935 Cal-check of Lumex #164, R% = 6

1115 House empty + closed up

Pentax Camera 118-0041 Laundry Det.

118-0040 Toiletries

118-0042 Jewelry box 1

43	1
44	1
45	2
46	2

Jewelry Box contents (2) USA Olympic token, cigarette lighter cover, Hawaii Keychain, 8 keys, gold bracelet, silver charm bracelet.

BSC 6-26-10

6-26-2010

Key w/ frog charm, gold necklace w/
 senior 96 pendant, dream catcher necklace,
 leather bracelet, elephant bracelet, 2
 watches, 1 watch w/o band, silver chain
 bracelet, gold heart ring, ring (plain w/
 criss-crosses, 2 sm silver hoop earrings,
 chain w/ bird pendant, tiger watch,
 1 watch w/ 1/2 band, silver/gold watch,
 cracker barrel key chain.

Jewelry box (1) Contents: Strand of fake ^{per owner}
 pearls, Key chain (plastic), brooch (broken)
 Silver horse bracelet, 2 ladybug earrings,
 leather banded necklace, pewter shoe,
 golden heart locket, tiger pendant,
 frog pendant, yacht club bracelet,
 Shriners pendant, 14 rings (cheap), thin
 stranded gold tiger necklace, harley
 davidson tin, pocket knife, glass of
 96 fine silver coin, belt buckles,
 green rubber bracelet, silver bracelet
 w/ Jerry on it, necklace with 2" cross,
 bracelet, hemp necklace, hemp bracelet,
 silver bracelet, silver rope necklace,
 sun bracelet, 3 random pearls,
 heart charm, 1/2 Yin-Yang necklace,

BSL 6-26-10

Silver heart locket necklace

1/16

BSL 6-26-10

6-27-10

0740 Farmer & Blatner arrive onsite

0816 Begin inventory of "clean items"

Picture # Items

100-3478 Childrens Books

-3479 Childrens Books

-3480-81 Childrens books, satchel purse, Camcorder
↓ tape

-3482 Nintendo tape, small kids books, CONT Hange

↓ Coloring books, sm aquarium, sm phone bk

-3483 Willow Tree empty box, sm basket, empty

↓ Ghirardelli tin, princess puzzle, cds, coloring bks

-3484 Math book, coloring books, triv pursuit cards,
↓ wooden frog

-3485 blanket + shirts

-3486 heating blanket, belt, folders, bathroom organizer
↓ Pooh Photo book

-3487 Photo book, folders, flashcards

-3488 Purse, blinds, cord, child's dress

-3489 Cell phone, coin purse, curtain rods, photo, book

-3490 frames, candles, deodorant

-3491 ~~HOOVER VAC~~

-3492 Reports, puzzles + cds

-3493 ^{UP} P10r CDS, DVDs, wii sports, books, basket, razor

-3494 Soap dish, empty barbie doll, puzzle, frames, candles

-3495 lg crayola coloring pad, books

BSC 6-27-10

Picture # Items

100-3496 Notebooks

-3497 Notebooks, magazine, mini bible

-3498 Pics, frames, knit purse, frog ring, books

-3499 Breast Pump, Spiderman suitcase, GNC bag

↓ w/clothes, o'charleys + Wal-Mart g.c's

-3500 stuffed frogs, lg doll, box of clothes, dress

-3501 doll, backpack, clothes

-3502 Books

-3503 Empty VHS, books, VHS tapes, Dora

-3504 Molds, toys, Nintendo tape + controller

-3505 Craft items

-3506 Books, Bingo

-3507 frog statue, cell phone, frame, pencil cup,

↓ plastic tote, candle holders, Nintendo game,
clippers, razor, hot wheels

-3508 board games

-3509 VHS tapes

-3510 VHS tapes

3511 VHS tapes + board games

-3512 Speaker, dictionary, candles, frames, frog

-3513 Dirty Dishes

-3514 VHS tapes, Empty VHS case, toys,

-3515 Pillow, toys, empty playstation game, VHS

↓ tapes, Nintendo games

-3516 O'Charleys G.C's, toys

BSC 6-27-10

6/27/10

Photo

Items

- 100-3517 Spaghetti jar, empty glass jar, glasses,
↓ Puzzle, books
-3518 Kids books
-3519 Kids books
-3520 Casette tapes, remote
-3521 Notebooks, Plastic drawers, cds
↓ office supplies
-3522 Cds, cassettes,
-3523 Cds, cassettes
-3524 Mens clothing
-3525 Mens clothing
-3526 Board Games, CD cases
-3527 Notebooks
-3528 Books, activity books
-3529 Notebooks
-3530 Puzzles, games, books
-3531 Kids clothes
-3532 clothes & toys
-3533 womens clothing
-3534 DVDs & VHS tapes
3535 DVDs & VHS tapes
-3536 ↓ ↓ ↓
-3537 Disney books, baby books, books
-3538 VHS tapes, DVDs
-3539 Toys, camera, kite, stuffed frog

BSC 6-27-10

6/27/10

Photo

Items

- 100-3540 ~~tapes, dvds~~ clothes
3541 ~~fabric, yarn, bag~~
35421 Craft basket, first aid kit,
35482 Trash
35483 Fax machine & printer, extension cord, pillow
35484 Backpack, Peter Rabbit blanket, cont, clothes
35485 Books, purse
35486 VCR, SM + V, cranium, nails, junk bag
35487 Books, VCR, wii remote, trivial pursuit
3548 Down comforter
3549 Games, wii remote, DVDs
3550 Playstation box, games/toys, books, speakers, coasters
3551 Games, VHS tapes, DVD player
3552 Stuffed animals, laundry basket
3553 Puzzle Pieces, 3 cell phone boxes
3554 SM ironing board, box of 6-day cards,
↓ Nicotine patches, box of DVDs
3555 Violin (Bor condition), Leap Frog, toy laptop
3556 Books
3557 Clothes
3558 Clothes
3559 Box of books, toys
3560 CD Player, vase, toys
3561 box, hat, funny pack
3562 box of papers, clothes

BSC 6-27-10

6/27/10

Photo	Items
100-3563	Kids clothes
3564	Bat castle, toys, shelving unit w/ 22710
↓	Junk drawer
3565	Toys, sheet music
3566	Paperwork, backpacks
3567	Sewing machine, photo albums, DVD box w/
↓	paperwork
3568	DVD player, movies, photo album
3569	Broken shelving unit (thrown away)
3570	First Aid Kit, toys
-1142 LUNCH	
-1326 Return From Lunch	
3571	Box of videos
3572	Pictures, Laundry basket, radio, case
3573	Leather jacket, clothes
3574	Statue, basket
3575	clothes
3576	clothes + bathen packet
3577	clothing
3578	clothes
3579	lamp, piggy bank, jar, drill
3580	couch cushions
3581	Games, videos
3582	Videos, suitcase
3583	clothes + heating pad

SC 6-27-10

6/27/10

Photo #	Items
100-3584	Toys, clothes, videos
3585	Empty HP D2660 printer box videos
↓	stuffed animals
3586	Stuffed frogs
3587	Empty Dish Network Box
3588	cooler, puzzle pieces
3589	cooler, coloring books, kids ski pants
3590	Sesame street sleeping bag, pillow, clothes
3591	Pillow, toys, clothing
3592	clothes, books, Nintendo game, barbie
3593	videos, shoes, toys, Nintendo game
3594	Kids clothing - girls dresses
3595	boys clothing
3596	toys, videos, Nintendo games
3597	shoes, books, toys
3598	aquarium, couch cushion
3599	dolls, hat, barbie, shorts
3600	Kitchen utensils, knives, toaster, pot
3601	box of clothing, duffel bag w/ clothes, cooler
3702	Jenga/ blocks, huge remote, sheet
3703	bathroom plunger, trash can, brush, clothes
3704	Clothes
3705	Pillow shams, pillows, blanket
3706	Clothes, leather jackets, furry coat
3707	Clothes, belts, guitar case

SC 6-27-10

6-27-10

Photo

Items

700-3708

Couch cushion, rag doll, laundry basket
of clothes

3709

Dishes, pots

3710

Pots, dishes, cookie sheets

3711

Toys, clothes

3712

Shoes, clothes

3713

Iron skillet, ramen noodles, orange glow
iron

3714

Kitchen stuff, canisters, pencils

3715

Lamp, purse, toys, pocket knives, sheet

3716

Small items

3717

Bag of small items

3718

Kenmore microwave

3619

Pillows & craft fill

3620

Basket of clothes, backpack

3621

Clothes

3622

↓

3623

Pants, shoes, toys

3624

Pencils, mirror, candlestick

3625

Video, dryer sheets, toys

* Gave MS Rush car key from dressed
bag

1555

Start up Lumex #834, Cal check! R% = 21

Recheck #834 after warm up R% = 22

Start up Lumex #149 R% = 19

1705

TT of site

VLF 627 W

6-28-10 Farmer & Blattner arrive on site @ 0700

Lumex #149 R% = 6

Began bagging "hot items"

Lumex #164 R% = 2. Clean item inventory

Photo 10

Items

100-3638

Clothes, couch cushion

threw out

3639

toys, nail paper, raincoat

3640

toys, cell phone

3641

toys, boots, kids clothes

3642

Kids clothes

3643

↓

3644

Adult shoes, clothes

3645

Toys

3646

Cross & Books

3647

Kids shoes & blanket

3648

Mens clothing

3649

Mens clothing

3650

Kids shoes & clothes

3651

Mens clothes & toge

3652

Stuffed animals, Kids shoes

3653

comforter, kids shoes

3654

Clothes

3655

Ducks, bowl, decorative items

3656

Kids clothes

3657

Clothes

3658

Kids clothes

BSC 6-28-10

6-28-10

Picture	Item
100-3659	Kids clothes
3660	Kids clothes, comforter
3661	Kids + Adult clothes
3662	Clothes, shoes, belt
3663	Pillows
3664	Blanket, backpack
3665	Jeans (Adult), clothes
3666	Clothes, boots
3667	clothes
3668	towels
3669	Girls clothing
3670	Rug
3671	Girls clothing
1145 LUNCH BREAK	
1300 Return	
Inventory hot items	
TT (Farmer + Blattner) offsite @ 1530	

VIF
62810

6-29-10 @ 0700 TT (Farmer) arrives onsite
0740 TT departs site to work on
spreadsheet at hotel

VIF

6-30-10 @ 0705 Farmer arrives on site
1000 - Re SCREEN "HOT" ITEMS H.O WANTED
TO KEEP

BIKE PUMP, 2 SM plush frog, red beanie dog = 3400

STUFFED GIRAFFE = 817

CANDLES = 30

CERAMIC FROG = 244

STUFFED FROG IN DRESS = 292

STUFFED GHOST = 900

FROG LOTION PUMP = 527

2 Small baby dolls = 1200

BSC 7-12-10

APPENDIX E
TABLE OF WITNESSES
(1 Page)

TABLE OF WITNESSES

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APPENDIX F
LUMEX® SCREENING RESULTS
(2 Pages)

LUMEX SCREENING RESULTS

BUTLER ROAD MERCURY SPILL

4134 Madisonville Road, Hopkinsville, Kentucky - Initial Screening Results		
Sampling Date:	6/25/2010	
Entry #	1	2
Start Time	1002	1002
Stop Time	Breathing Zone	Floor
Lumex Screening Results (ng/m ³)		
Living Room	1,800	25,000
Bedroom 1	1,500	4,000
Bedroom 2	2,800	12,000
Laundry Room	2,600	22,000
Bathroom	2,500	22,000
Kitchen	2,200	8,000
Sampler 1:	B. Croft	
Sampler 2:	G. Blattner	
Notes:		

LUMEX SCREENING RESULTS

BUTLER ROAD MERCURY SPILL

4134 Madisonville Road, Hopkinsville, Kentucky - Clearance Test								
Sampling Date:	7/1/2010							
Entry #	1	2	3	4	5	6	7	8
Start Time	733	844	941	1050	1151	1250	1355	1452
Stop Time	751	901	959	1106	1206	1308	1411	1512
Lumex Screening Results (ng/m ³)								
Living Room	564	313	246	241	374	352	752	475
Bedroom 1	293	156	117	155	159	173	298	281
Bedroom 2	276	172	118	185	267	352	319	344
Laundry Room	NA	NA	NA	NA	NA	NA	NA	NA
Bathroom	455	291	219	244	306	427	646	460
Kitchen	451	328	241	249	394	526	629	394
Average Screening Results (ng/m ³)								
Living Room	553							
Bedroom 1	204							
Bedroom 2	254							
Bathroom	381							
Kitchen	402							
Temperature (°F)	75.7	75.1	75	77.5	78.6	79	80.4	82.4
Sampler 1:	T. Curtis	T. Curtis	T. Curtis	T. Curtis	T. Curtis	T. Curtis	T. Curtis	T. Curtis
Sampler 2:	B. Franco	B. Franco	B. Franco	B. Franco	B. Franco	B. Franco	B. Franco	B. Franco
Notes:	°F= Degrees Fahrenheit							
	NA = No readings collected in the laundry area as it is essentially an annex of the living room							
	ng/m ³ = nanograms per cubic meter							
	EPA Personnel: Benjamin Franco							
	EPA START Contractor: Todd Curtis							
	Provided that the ambient air mercury levels are below 1,000 ng/m ³ clearance level and the residence is considered safe for reoccupation.							

APPENDIX G
ANALYTICAL DATA PACKAGES
(22 Pages)

June 29, 2010 4:33:00PM

Client: Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn: Jessica Vickers

Work Order: NTF2678
Project Name: Butler Road Mercury Response
Project Nbr: [none]
P/O Nbr: Must have PO# to report
Date Received: 06/28/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
BR-S-01	NTF2678-01	06/27/10 18:30
BR-S-02	NTF2678-02	06/27/10 18:25
BR-S-02D	NTF2678-03	06/27/10 18:25
BR-S-03	NTF2678-04	06/27/10 18:45
BR-S-04	NTF2678-05	06/27/10 18:40

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Additional Laboratory Comments:

[FL NELAP cert effective 8/22/09 – 6/30/10](#)

Kentucky Certification Number: 90038

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Johnny A. Mitchell

Laboratory Director

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTF2678
Project Name: Butler Road Mercury Response
Project Number: [none]
Received: 06/28/10 09:40

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTF2678-01 (BR-S-01 - Soil) Sampled: 06/27/10 18:30								
Mercury by EPA Methods 7470A/7471A								
Mercury	0.134		mg/kg	0.0980	1	06/28/10 14:42	SW846 7471A	10F3941
Sample ID: NTF2678-02 (BR-S-02 - Soil) Sampled: 06/27/10 18:25								
Mercury by EPA Methods 7470A/7471A								
Mercury	0.371		mg/kg	0.100	1	06/28/10 14:53	SW846 7471A	10F3941
Sample ID: NTF2678-03 (BR-S-02D - Soil) Sampled: 06/27/10 18:25								
Mercury by EPA Methods 7470A/7471A								
Mercury	0.224		mg/kg	0.0982	1	06/28/10 14:55	SW846 7471A	10F3941
Sample ID: NTF2678-04 (BR-S-03 - Soil) Sampled: 06/27/10 18:45								
Mercury by EPA Methods 7470A/7471A								
Mercury	ND		mg/kg	0.0993	1	06/28/10 14:57	SW846 7471A	10F3941
Sample ID: NTF2678-05 (BR-S-04 - Soil) Sampled: 06/27/10 18:40								
Mercury by EPA Methods 7470A/7471A								
Mercury	ND		mg/kg	0.0987	1	06/28/10 14:59	SW846 7471A	10F3941

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTF2678
Project Name: Butler Road Mercury Response
Project Number: [none]
Received: 06/28/10 09:40

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Mercury by EPA Methods 7470A/7471A							
SW846 7471A	10F3941	NTF2678-01	0.61	100.00	06/28/10 10:45	LCB	EPA 7471
SW846 7471A	10F3941	NTF2678-02	0.60	100.00	06/28/10 10:45	LCB	EPA 7471
SW846 7471A	10F3941	NTF2678-03	0.61	100.00	06/28/10 10:45	LCB	EPA 7471
SW846 7471A	10F3941	NTF2678-04	0.60	100.00	06/28/10 10:45	LCB	EPA 7471
SW846 7471A	10F3941	NTF2678-05	0.61	100.00	06/28/10 10:45	LCB	EPA 7471

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTF2678
Project Name: Butler Road Mercury Response
Project Number: [none]
Received: 06/28/10 09:40

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Mercury by EPA Methods 7470A/7471A

10F3941-BLK1

Mercury	<0.0396		mg/kg	10F3941	10F3941-BLK1	06/28/10 14:01
---------	---------	--	-------	---------	--------------	----------------

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTF2678
Project Name: Butler Road Mercury Response
Project Number: [none]
Received: 06/28/10 09:40

PROJECT QUALITY CONTROL DATA

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Mercury by EPA Methods 7470A/7471A								
10F3941-BS1								
Mercury	0.168	0.184		mg/kg	110%	80 - 120	10F3941	06/28/10 14:03

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTF2678
Project Name: Butler Road Mercury Response
Project Number: [none]
Received: 06/28/10 09:40

PROJECT QUALITY CONTROL DATA

Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Mercury by EPA Methods 7470A/7471A										
10F3941-MS1										
Mercury	0.134	0.311		mg/kg	0.165	108%	75 - 125	10F3941	NTF2678-01	06/28/10 14:44

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTF2678
Project Name: Butler Road Mercury Response
Project Number: [none]
Received: 06/28/10 09:40

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Mercury by EPA Methods 7470A/7471A												
10F3941-MSD1												
Mercury	0.134	0.393	M7, R3	mg/kg	0.168	154%	75 - 125	23	20	10F3941	NTF2678-01	06/28/10 14:46

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTF2678
Project Name: Butler Road Mercury Response
Project Number: [none]
Received: 06/28/10 09:40

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Kentucky
SW846 7471A	Soil		X	X

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTF2678
Project Name: Butler Road Mercury Response
Project Number: [none]
Received: 06/28/10 09:40

DATA QUALIFIERS AND DEFINITIONS

M7 The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
R3 The RPD exceeded the acceptance limit due to sample matrix effects.
ND Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES



Cooler Received/Opened On 6/28/10 @ 09:40

1. Tracking # N/A (last 4 digits, FedEx)

Courier: Walk-in IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 2.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) W

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) W

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) W

21. Were there Non-Conformance issues at login? YES NO Was a PIPE generated? YES NO # _____

Nashville
2960 Foster Creighton Drive

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN 37204
phone 615 726 0177 fax 615 726 3403

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Jessica Vickers		Site Contact:		Date: 6-28-10		COC No. 1 of 1 COCs	
Tetra Tech EM Inc		Tel/Fax: (678) 775-3104		Lab Contact:		Carrier:		Job No.	
1955 Evergreen Blvd, Bldg 200, Ste 300		Analysis Turnaround Time							
Duluth, GA 30096		Calendar (C) or Work Days (W)							
(678) 775-3104 = phone		TAT if different from Below							
(678) 775-3138 = fax		<input type="checkbox"/> 2 weeks							
Butler Road Mercury Response		<input type="checkbox"/> 1 week							
TTEML-05-001-0130		<input type="checkbox"/> 2 days							
		<input checked="" type="checkbox"/> 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Sample Specific Notes:	
							Total Mercury		
BR-S-01		6/27/2010	1830	Soil	Soil	1		NTF2678-01	
BR-S-02		6/27/2010	1825	Soil	Soil	1		02	
BR-S-02D		6/27/2010	1825	Soil	Soil	1		03	
BR-S-03		6/27/2010	1845	Soil	Soil	1		04	
BR-S-04		6/27/2010	1840	Soil	Soil	1		05	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other		1							
Possible Hazard Identification									
<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant					
		Poison B		<input type="checkbox"/> Unknown					
Special Instructions/QC Requirements & Comments:									
24-HOUR TURNAROUND TIME									
Relinquished by: Ben S. Smith		Company: Tetra Tech		Date/Time: 6-28-10/04:30		Received by: James M. Smith		Company: Tetra Tech	
Relinquished by: James M. Smith		Company: Tetra Tech		Date/Time: 6-28-10/04:30		Received by: James M. Smith		Company: Tetra Tech	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	

please email results to Jessica.Vickers@tetratech.com
Brian, Credit @ tetratech.com

2.2

SDG No.
NTF2678
06/29/10 23 59

July 06, 2010

4:26:22PM

Client: Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn: Jessica Vickers

Work Order: NTG0211
Project Name: Butler Road Mercury Response
Project Nbr: 103DX90170001.0130.0001
P/O Nbr: Not required per Jessica Vickers
Date Received: 07/02/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
BR-S-05	NTG0211-01	07/01/10 17:21

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Kentucky Certification Number: 90038

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Cathy Gartner

Project Management

Client Tetra Tech EMI (7797)
 1955 Evergreen Blvd., Building 200, Suite 300
 Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTG0211
Project Name: Butler Road Mercury Response
Project Number: 103DX90170001.0130.0001
Received: 07/02/10 12:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NTG0211-01 (BR-S-05 - Soil) Sampled: 07/01/10 17:21								
Mercury by EPA Methods 7470A/7471A								
Mercury	0.410		mg/kg	0.0992	1	07/06/10 14:54	SW846 7471A	10F5003

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTG0211
Project Name: Butler Road Mercury Response
Project Number: 103DX90170001.0130.0001
Received: 07/02/10 12:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Mercury by EPA Methods 7470A/7471A SW846 7471A	10F5003	NTG0211-01	0.61	100.00	07/06/10 09:50	LCB	EPA 7471

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTG0211
Project Name: Butler Road Mercury Response
Project Number: 103DX90170001.0130.0001
Received: 07/02/10 12:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
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Mercury by EPA Methods 7470A/7471A

10F5003-BLK1

Mercury	<0.0400		mg/kg	10F5003	10F5003-BLK1	07/06/10 13:42
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Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTG0211
Project Name: Butler Road Mercury Response
Project Number: 103DX90170001.0130.0001
Received: 07/02/10 12:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Mercury by EPA Methods 7470A/7471A								
10F5003-BS1								
Mercury	0.162	0.178		mg/kg	110%	80 - 120	10F5003	07/06/10 13:44

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTG0211
Project Name: Butler Road Mercury Response
Project Number: 103DX90170001.0130.0001
Received: 07/02/10 12:00

PROJECT QUALITY CONTROL DATA

Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Mercury by EPA Methods 7470A/7471A										
10F5003-MS1										
Mercury	ND	0.218	M7	mg/kg	0.162	134%	75 - 125	10F5003	NTF2685-25	07/06/10 13:48

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTG0211
Project Name: Butler Road Mercury Response
Project Number: 103DX90170001.0130.0001
Received: 07/02/10 12:00

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Mercury by EPA Methods 7470A/7471A												
10F5003-MSD1												
Mercury	ND	0.224	M7	mg/kg	0.164	136%	75 - 125	3	20	10F5003	NTF2685-25	07/06/10 13:50

Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTG0211
Project Name: Butler Road Mercury Response
Project Number: 103DX90170001.0130.0001
Received: 07/02/10 12:00

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	Kentucky
SW846 7471A	Soil		X	X

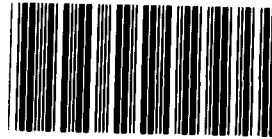
Client Tetra Tech EMI (7797)
1955 Evergreen Blvd., Building 200, Suite 300
Duluth, GA 30096
Attn Jessica Vickers

Work Order: NTG0211
Project Name: Butler Road Mercury Response
Project Number: 103DX90170001.0130.0001
Received: 07/02/10 12:00

DATA QUALIFIERS AND DEFINITIONS

M7 The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
ND Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES



Cooler Received/Opened On: 7/2/2010 @ 1200

NTG0211

Walk-in Tracking number _____

IR Gun ID: 9561008

1. Temperature of rep. sample or temp blank when opened: 4.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) _____

I certify that I attached a label with the unique LIMS number to each container (initial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# _____

ANALYTICAL TESTING CORPORATION

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Client #:

10

Fax:

7-25 Cont.

12

Butler Kav Mercury) Pic

103 DX 9017 00001.0:30.0000

State: TX

$$\frac{1}{2} \pi \cdot 1.1 \cdot 2 \text{ CEFIT}$$

Session Vickers

PO#:

[illegible]

None

Level 2

(Batch QC)

Level 3

Level 4

Other: _____

1

REMARKS

[illegible]

Special instructions:

LABORATORY COMMENTS:

Init Lab Temp:

Rec Lab Temp:

Custody Seals:	Y	N	N/A
Bottles Supplied by Test America:	Y		N

Relinquished By: <i>[Signature]</i>	Date: 7/2/14	Time: 1200	Received By: <i>[Signature]</i>	Date: 7/4/14	Time: 1200
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Method of Shipment: