

U.S. ENVIRONMENTAL PROTECTION AGENCY

Superior Barrel and Drum - Removal Update



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region II

**Subject: Removal Update**  
**Complete Removal Under T&D Subcontract 3; Award Final T&D Subcontract 4**  
**Superior Barrel and Drum**  
**Elk, NJ**  
**Latitude: 39.6930670 Longitude: -75.1345550**

**From:** Keith Glenn,  
OSC/Environmental Scientist  
**Date:** 5/27/2014  
**Reporting Period:** May 19, 2014 through May 26,  
2014

**FOR PREVIOUS REMOVAL UPDATES, PLEASE CONTACT: [glenn.keith@epa.gov](mailto:glenn.keith@epa.gov)**

**Current Activities**

The last remaining containers outlined in transport and disposal (T&D) subcontract 3 were removed from the property. Transportation and Disposal subcontract 4, consisting of all remaining on-site containerized waste, was awarded during the operational period. Removal of non-hazardous debris from site operations including spent personal protective equipment, cut containers, tote frames, and general site debris commenced. Additional funding for mitigation activities was requested and processed.

The development of a comprehensive sampling plan continued with focus on strategies for sampling ground water.

The EPA continued to work with numerous partners including the Gloucester County Fire Marshal's Office, HazMat Team, NJDEP, U.S. Fish and Wildlife Service, and local officials. NJDEP personnel continued weekly visitations. Security personnel continued to patrol the site during non-operational hours.

**Response Actions to Date**

To view removal actions completed during other operational periods, please contact Keith Glenn at 732-321-4454 or email: [glenn.keith@epa.gov](mailto:glenn.keith@epa.gov).

On May 19, 2014 T&D subcontract 4 was awarded. This subcontract is inclusive of all remaining containerized wastes located on-site. On May 20<sup>th</sup> a representative of the waste broker visited the facility to review containers and meet with

site management. In addition, the vendor provided a list of disposal facilities where waste will be sent. EPA submitted off-site rule requests for all applicable facilities.

On-site chemists continued working to stabilize problematic material in container 6007. Container contents are being separated into small quantities to be stabilized with sodium bicarbonate. Once stable, the material is solidified with cement. The material, tested as a flammable oxidizer, is slowly being addressed to ensure an adverse reaction does not occur.

Crews continued to consolidate non-hazardous debris including broken glass, spent personal protective equipment, plastic tote parts, metal frames, etc. On May 21<sup>st</sup> cubic yard boxes arrived to receive the general debris. One box was removed and replaced on May 23<sup>rd</sup>. In addition, personnel completed the crushing of empty containers and destruction of empty totes.

During an inspection of heavy machinery located in the on-site structure, four mercury bulbs were found in addition to others previously identified. All bulbs were removed from their casing and mercury was consolidated and stored for future removal.

On May 22, 2014 the last remaining waste identified under T&D subcontract 3 was removed. A total of 11 drums containing oxidizing wastes were sent for appropriate disposal.

EPA continued to develop and tweak the comprehensive sampling design. Focus has been placed on options for collecting ground water throughout the property. Sampling activities are being planned for July 2014.

NJDEP continued to review options for removal of tires located at the facility. The NJDEP case manager is looking into existing cooperative agreements and grants potentially available in the County.

RST continued to provide air monitoring to ensure the safety of personnel and surrounding properties. Additionally, RST continued to manage the SCRIBE, FlexViewer and Response Manager databases.

### Progress Metrics

<i>Date Shipped</i>	<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal Facility</i>
1/30/2014	Waste Inorganic Liquid	Liquid Wastes	4,500 gallons (37 containers)	012500207	Neutralization, Landfill, Recycling, Incineration	Vickery Environmental, Advanced Disposal (CCL), Environmental Recovery, Heritage-WTI
2/6/2014	Waste Flammable Solid	Solid Wastes	982 gallons (7 containers)	012500266	Fuel Blending, Incineration	Ross Incineration Services; Geocycle; Buzzi Unicem USA
2/6/2014	Waste Flammable Corrosive, Acidic Solid	Solid Wastes	55 gallons (1 container)	012500266	Incineration	Heritage - WTI
2/6/2014	Waste Corrosive, Inorganic, Acidic Liquid	Liquid Wastes	381 gallons (9 containers)	012500266	Aqueous Treatment, Stabilization, Landfill	EQ of Detroit; Advanced Disposal (CCL); Max Environmental
2/6/2014	Waste Chromium and Lead Contaminated Solid	Solid Wastes	168 gallons (4 containers)	012500266	Neutralization/Stabilization, Landfill	MAX Environmental; Vickery Environmental

2/6/2014	Waste Mercury Contaminated Corrosive, Inorganic, Acidic Liquid	Liquid Wastes	165 gallons (3 containers)	012500266	Aqueous Treatment	EQ of Detroit
2/6/2014	Waste Corrosive, Acidic Liquid Mixture	Mixed Wastes	92 gallons (2 containers)	012500266	Aqueous Treatment, Incineration	EQ of Detroit; Ross Incineration Services
2/6/2014	Waste Corrosive, Organic, Acidic Liquid	Liquid Wastes	55 gallons (1 container)	012500266	Landfill	Advanced Disposal (CCL)
2/6/2014	Waste Flammable Liquid and Solid Mixture	Solid Wastes	475 gallons (9 containers)	012500266	Incineration	Ross Incineration Services
2/6/2014	Waste Flammable Liquid and Solid Mixture	Mixed Wastes	1,362 gallons (11 containers)	012500266	Incineration; Fuel Blending	Ross Incineration Services; Geocycle
2/20/2014	Waste Corrosive, Inorganic, Basic Liquid	Liquid Wastes	1,509 gallons (13 containers)	12500358	Neutralization/ Landfill	Vickery Environmental, Inc and Max Environmental Technologies, Inc.
2/20/2014	Waste Corrosive, Selenium Contaminated, Inorganic, Basic Liquid	Liquid Wastes	190 gallons (2 containers)	12500358	Neutralization/ Landfill	Max Environmental Technologies, Inc.
2/20/2014	Waste Corrosive, Lead Contaminated, Inorganic, Basic Liquid	Liquid Wastes	475 gallons (5 containers)	12500358	Neutralization/ Stabilization/ Landfill	Max Environmental Technologies, Inc.
2/20/2014	Waste Corrosive, Lead Selenium Contaminated, Inorganic, Basic Liquid	Liquid Wastes	190 gallons (2 containers)	12500358	Stabilization/ Landfill	Max Environmental Technologies, Inc.
2/20/2014	Waste Corrosive, Chromium Selenium Contaminated, Inorganic, Basic Liquid	Liquid Wastes	1,235 gallons (7 containers)	12500358	Neutralization/ Landfill and Deep Well Injection	Vickery Environmental, Inc.
2/20/2014	Selenium Contaminated Liquid	Liquid Wastes	1,285 gallons (7 containers)	12500358	Neutralization/ Landfill	Max Environmental Technologies, Inc.
2/20/2014	Waste Corrosive, Organic, Basic Liquid	Liquid Wastes	285 gallons (3 containers)	12500358	Neutralization/ Stabilization/ Landfill	Max Environmental Technologies, Inc.
2/27/2014	Waste Flammable, Chloroform Contaminated	Liquid Wastes	1270 gallons (10 containers)	12500457	Incineration, Fuel Blending	Ross Incineration Services; Geocycle; Heritage - WTI

2/27/2014	Benzene Contaminated Liquid	Liquid Wastes	1840 (9 Containers)	12500457	Incineration; Fuel Blending	Ross Incineration Services; Geocycle
2/27/2014	Waste Corrosive, Organic, Basic Liquid	Liquid Wastes	95 gallons (1 Container)	12500457	Stabilization/Landfill	Max Environmental
2/27/2014	Lead Contaminated Liquid	Liquid Wastes	250 gallons (1 container)	12500457	Neutralization/Landfill	Max Environmental
2/28/2014	Waste, Flammable Liquid	Liquid Wastes	4700 gallons (24 containers)	11519302	Incineration (Proposed)	Ross Incineration Services, Inc.
3/5/2014	Waste, Flammable Liquid	Liquid Wastes	5000 gallons (55 containers)	11519349	Fuel Blending/ Incineration, Ultrafiltration, Chemical Precipitation and Carbon Absorption	Tradebe Treatment and Recycling Northeast LLC
3/7/2014	Waste, Flammable Liquid	Liquid Wastes	4,500 gallons (50 containers)	11519380	Fuel Blending/ Incineration, Ultrafiltration, Chemical Precipitation and Carbon Absorption	Tradebe Treatment and Recycling Northeast LLC
3/20/2014	Propane	Liquid Propane	10 cylinders	WO#0472701	Recycling	Suburban Propane
3/28/2014	Waste, Flammable Corrosive Acidic Liquid	Liquid Waste	625 gallons (2 containers)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Chromium and Lead Sludge	Mixed Waste	250 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Lead and Benzene Sludge	Mixed Waste	250 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Liquid	Liquid Waste	250 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Flammable Paint Related	Liquid Waste	1200 gallons (2 containers)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Lead Contaminated	Liquid Waste	1250 gallons (5 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Solid	Solid Waste	275 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Corrosive Acidic Resin/Water Mix	Mixed Waste	350 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Corrosive Acidic Resin	Mixed Waste	275 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/28/2014	Waste, Flammable Solid	Solid Waste	1250 gallons (2 containers)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.

3/31/2014	Flammable Corrosive Acidic	Liquid Waste	440 gallons(8 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic	Liquid Waste	275 gallons(5 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic Resin Sludge	Mixed Waste	110 gallons(2 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Liquid, Lab Flash	Liquid Waste	40 gallons(2 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic Resin	Mixed Waste	275 gallons(5 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic	Liquid Waste	660 gallons(12 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic Resin/Water Mix	Mixed Waste	165 gallons(3 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Acidic Resin Sludge	Mixed Waste	110 gallons(2 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Corrosive Basic Inorganic/Organic Mix	Liquid Waste	55 gallons(1 container)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Paint Related	Liquid Waste	216 gallons(10 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Flammable Lead Contaminated	Liquid Waste	40 gallons(2 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
3/31/2014	Corrosive Inorganic Basic	Liquid Waste	110 gallons(2 containers)	12224914	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Paint Related Material	Liquid Waste	1020 gallons(12 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Chromium and Lead Contaminated Sludge	Mixed Waste	510 gallons(6 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Lead and Benzene Contaminated Sludge	Mixed Waste	765 gallons(9 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Liquid	Liquid Waste	85 gallons(1 container)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Sludge	Mixed Waste	170 gallons(2 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.

4/3/2014	Flammable Liquid/Sludge	Mixed Waste	1045 gallons(11 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Liquid	Liquid Waste	255 gallons(3 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Lead Contaminated Liquid	Liquid Waste	95 gallons(1 container)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Paint Related Material	Liquid Waste	425 gallons(5 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/3/2014	Flammable Sludge	Mixed Waste	765 gallons(9 containers)	12224943	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	Flammable Lead and Benzene Contaminated Liquid	Mixed Waste	170 gallons(2 containers)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	Flammable Lead Contaminated Sludge	Mixed Waste	1020 gallons(12 containers)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	Flammable Lead Contaminated Sludge	Mixed Waste	340 gallons(4 containers)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	Flammable Solid	Solid Waste	2795 gallons(35 containers)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	MEK Contaminated Liquid	Liquid Waste	760 gallons(8 containers)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/4/2014	Flammable Solid	Solid Waste	95 gallons(1 container)	12224944	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/8/2014	Flammable Chromium, Lead and Chloroform Contaminated Liquid/Water Mixture	Liquid Waste	3366 gallons (35 containers)	12224919	Fuel Blending (Proposed)	Veolia Environmental Services
4/8/2014	Propane	Liquid Propane	3 cylinders	WO#0472709	Recycling	Suburban Propane
4/9/2014	Flammable Resin Sludge	Mixed Waste	765 gallons (9 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Lead and Chromium Contaminated Liquid/Water Mix	Liquid Waste	85 gallons (1 container)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Lead Contaminated Resin Solids	Solid Waste	1200 gallons (4 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Resin Solids	Solid Waste	1500 gallons (5 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.

4/9/2014	Flammable Adhesive	Mixed Waste	170 gallons (2 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Adhesive	Mixed Waste	680 gallons (8 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Adhesive	Mixed Waste	255 gallons (3 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Flammable Liquid	Liquid Waste	265 gallons (3 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/9/2014	Class 4.1 Flammable Solids	Solid Waste	6300 gallons (21 containers)	12224953	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/10/2014	Flammable Chromium, Lead and Chloroform Contaminated Liquid/Water Mixture	Liquid Waste	2800 gallons (45 containers)	12224950	Fuel Blending (Proposed)	Veolia Environmental Services
4/14/2014	Flammable Chromium, Benzene, Lead Contaminated Liquid	Liquid Waste	3531 gallons (36 containers)	12224949	Fuel Blending (Proposed)	Veolia Environmental Services
4/16/2014	Flammable Chromium, Benzene, Lead Contaminated Liquid	Liquid Waste	3416 gallons (24 containers)	12224978	Fuel Blending (Proposed)	Veolia Environmental Services
4/17/2014	Flammable Liquids	Liquid Waste	255 gallons (3 containers)	12224974	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Flammable Solids	Solid Waste	8700 pounds (29 containers)	12224974	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Flammable Liquids	Liquid Waste	595 gallons (7 containers)	12224974	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Flammable Resins and Paint	Solid Waste	1200 pounds (4 containers)	12224974	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Hazardous Waste (MEK, PCE)	Liquid Waste	850 gallons (10 containers)	12224974	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Flammable Liquids	Liquid Waste	1450 gallons (6 containers)	12224975	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Flammable Solids	Solid Waste	1400 pounds (2 containers)	12224975	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
4/17/2014	Hazardous Waste (MEK, PCE)	Liquid Waste	1000 gallons (4 containers)	12224975	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.

5/7/2014	Flammable, Corrosive Basic Liquid	Liquid Waste	2605 gallons (24 containers)	12264559	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
5/7/2014	Flammable, Corrosive Acidic Liquid	Liquid Waste	1195 gallons (13 containers)	12264559	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
5/7/2014	Flammable Paint-Related Material	Liquid Waste	880 gallons (9 containers)	12264559	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
5/8/2014	Flammable Liquid	Liquid Waste	3905 gallons (34 containers)	12264560	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
5/8/2014	Flammable Liquid (Water-Reactive)	Liquid Waste	875 gallons (7 containers)	12264560	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
5/8/2014	Flammable Solid and Debris	Solid Waste	670 gallons (4 containers)	12264560	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
5/15/2014	Flammable Liquids, Corrosive	Liquid Waste	425 gallons (5 containers)	12264585	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
5/15/2014	Flammable Liquids, Corrosive	Liquid Waste	250 gallons (1 container)	12264585	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
5/15/2014	Hazardous Waste (TCE)	Liquid Waste	850 gallons (10 containers)	12264585	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
5/15/2014	Hazardous Waste (TCE)	Liquid Waste	500 gallons (2 containers)	12264585	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.
5/22/2014	Oxidizing Solids	Solid Waste	3300 gallons (11 containers)	12224992	Landfill	EQ Detroit
5/23/2014	Non-hazardous Debris	Solid Waste	20 yd3	5081-35061	Landfill	Conestoga Landfill

DISPOSAL FACILITY	ADDRESS
Conestoga Landfill	420 Quarry Road, Morgantown, PA 19543
Cycle Chem/Clean Ventures Inc.	550 Industrial Drive, Lewisberry, PA 17339
Cumberland County Landfill (Interstate Waste Services)	135 Vaughn Road, Shippensburg, PA 17257
Envirosafe Services of Ohio	876 Otter Creek Road, Oregon, OH 43616
EQ of Detroit, Inc.	1923 Frederick Street, Detroit, MI 48211
Heritage-WTI	1250 St. George Street, East Liverpool, OH 43920
Max Environmental Technologies, Inc.	Road #1, Yukon, PA 15698
Ross Incineration Services, Inc.	36790 Giles Road, Grafton, OH 44044
Suburban Propane	997 N. Pearl Street, Bridgeton, NJ 08302
Tradebe Treatment and Recycling Northeast LLC	136 Gracey Avenue, Meriden, CT 06451
Veolia Environmental Services	125 Factory Lane, Middlesex, NJ 08846
Vickery Environmental, Inc.	3956 State Route 412, Vickery, OH 43464

### Planned Response Activities

Collaboration between the EPA, NJDEP, FWS, County, and local officials will continue throughout the removal activities of the Superior Barrel and Drum Site.

During the next operational period, commencement of waste removal and disposal under subcontract 4 will occur. Site managers will work with the subcontractor to remove the remaining wastes in a timely manner. In addition, non-hazardous waste and debris will continue to be removed from the site and sent to a Subtitle D landfill.



The sampling design for ground water and additional soil samples will continue to be developed. RST personnel will continue perimeter air monitoring.

### **Issues**

The time frame for the second assessment at the site hinges on removal of on-site wastes as well as awarding of the RST contract, as the current contract expires on June 30, 2014.

Site operations were suspended on Monday May 26, 2014 in observance of Memorial Day.