

U.S. ENVIRONMENTAL PROTECTION AGENCY

Superior Barrel and Drum - Removal Update



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region II

Subject: Removal Update
Waste Removal Under Subcontract #3 Commences
Superior Barrel and Drum
Elk, NJ
Latitude: 39.6930670 Longitude: -75.1345550

From: Margaret Gregor,
OSC/Environmental Scientist
Date: 5/12/2014
Reporting Period: May 5, 2014 through May 11,
2014

FOR PREVIOUS REMOVAL UPDATES, PLEASE CONTACT: glenn.keith@epa.gov

Current Activities

Removal of site wastes under transport and disposal (T&D) subcontract 3 commenced during the operational period with two load-outs; approximately 10,130 gallons of waste from 92 containers were shipped off-site for proper transport, treatment and disposal. The final T&D subcontract, subcontract 4, was completed and sent to potential bidders. Subcontract 4 includes the remaining on-site containerized wastes.

On May 5, 2014, the second assessment for the site also commenced with sediment sampling of the wetlands both on- and off-site. This assessment will also include soil and ground water sampling once all wastes have been removed from the site.

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.

On May 7, 2014, 46 containers with a total of 4,680 gallons of flammable material were removed from the site; materials included corrosive basic and acidic liquids as well as paint-related material. On May 8, 2014, 45 containers (including

one consolidated with another) with a total of 5,540 gallons of flammable materials were removed from the site, including liquids, water-reactive liquids and solids & debris. All materials were shipped off-site for proper treatment and disposal at regulated facilities. The materials are scheduled to be utilized for fuel blending.

ERRS crews continued preparing containers for shipment. On May 5, 2014, the fourth and final T&D subcontract was sent to potential bidders. This waste includes all remaining containers of waste on-site. Most of these materials are neutral, making up almost half of all on-site wastes. ERRS crews also continued consolidation and organization of scrap metal, pallets and other on-site debris which will be shipped off-site in roll-off containers.

Concerns regarding the stability of chemicals previously identified as oxidizers in eight containers caused site managers and chemists to reassess these materials. Additional samples from these containers were analyzed to ensure layers of materials are not causing interferences with previous data from field and laboratory analyses. Four of the containers were found to contain flammable materials and may need to be stabilized before being shipped off-site. Field testing suggested that addition of caustic solution will stabilize the waste. Once stabilized, the material will be safely transported off-site.

On May 5, 2014, EPA and RST contractors conducted sediment sampling in ecologically sensitive areas both on- and off-site, as part of the second removal assessment for the site. Sediment samples were collected from a total of 18 locations which had been previously discussed with the U.S. Fish and Wildlife Service, a Natural Resource Trustee. Locations included two vernal pools, the federally-designated wetlands both on- and off-site, and locations known to be populated with endangered species. A background location in the wetlands upgradient from the site was also included. All samples are being analyzed by EPA's DESA laboratory for VOCs, SVOCs, PCBs, pesticides, heavy metals, mercury and cyanide. The sediment sampling was conducted as part of the second assessment for the Site.

Plans for soil and ground water sampling, which are also part of this assessment, are being evaluated. Soil sampling locations and methodology were discussed with EPA risk assessors, and an EPA hydrogeologist was consulted regarding the ground water sampling strategy. Historic aerial photographs were obtained from the Gloucester County Planning Department and online sources. The purpose of the soil and ground water sampling is to determine whether site contaminants have impacted on-site soil and ground water, including the aquifer which is available as a potable water source.

RST continued to provide air monitoring to ensure the safety of personnel and surrounding properties. Additionally, RST continued to manage the SCRIBE 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	Mixed Waste	275 gallons (1 container)	12224910	Fuel Blending (Proposed)	Cycle Chem/Clean Ventures Inc.

	Corrosive Acidic Resin					
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.

DISPOSAL FACILITY	ADDRESS
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

2.2.1 Anticipated Activities

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

Bids for T&D subcontract 4 are due on May 12, 2014. The bid will be awarded the week of May 12, 2014. Following the award, all proposed disposal facilities will be reviewed for compliance under the Off-Site Rule. Waste profiles will be prepared, reviewed and finalized for the disposal facilities.

Materials with questionable identity will be stabilized and shipped off-site as part of T&D subcontract 3. All remaining wastes within subcontract 3 will be scheduled for removal.

ERRS will continue to stage containers identified for removal under T&D subcontract 4. Containers will be organized and prepared for shipment. Additionally, all empty containers will be consolidated in preparation for disposal. Local metal recycling companies will be contacted to determine options for removal of non-contaminated metal. RST personnel will continue perimeter air monitoring.

EPA will continue to evaluate and refine the soil and ground water sampling designs which are part of the second removal assessment for the site. After all on-site wastes are removed from the site, a geophysical survey will be conducted to determine whether any materials and debris are buried on-site. Following the geophysical survey, soil and ground water sampling can be conducted. It is anticipated that these activities will commence in summer 2014.

