U.S. ENVIRONMENTAL PROTECTION AGENCY

Superior Barrel and Drum - Removal Update

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region II

Subject: Removal Update
Acid and Base Composite Samples Collected
Superior Barrel and Drum
Elk, NJ
Latitude: 39.6930670 Longitude: -75.1345550

From:	Keith Glenn, OSC/Environmental Scientist
Date:	12/21/2013
Reporting Period:	December 16, 2013 through December 22, 2013

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

Current Activities

During the operational period activities focused on the collection of composite samples from various waste streams and organizing containers into designated areas by waste stream. The site was prepared to be vacant for two weeks for the holidays.

The EPA continued to work with numerous partners including the Gloucester County Fire Marshal's Office, HazMat Team, NJDEP, U.S. Fish and Wildlife, and local officials. NJDEP personnel continued weekly visitations and communication with Elk Township officials also continued. 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 refer to previous Removal Updates.

During the operational period a total of 54 composite samples were collected from numerous containers located throughout the property. Composite samples were collected based primarily on chemical properties and secondly on physical properties. On December 17, 2013, 14 samples were sent to the

laboratory for analysis. Of this group, seven were flammable liquids and seven were flammable bases. On December 18, 2013, 13 composite samples were collected. Of this collection, five were flammable liquids and eight were flammable resins. On December 19, 2013, 15 composite samples were collected. Of this, eight were flammable adhesives, two were flammable resins, four were flammable solids, and one was a flammable liquid. On December 20, 2013, 12 composite samples were collected. Of this, one was a flammable base, four were flammable acids, two were flammable paints, and five were flammable sludge. All samples were sent to the laboratory to be analyzed for a host of compounds. Some limitations on analytical procedures will occur due to the physical characteristics of the material. For example, adhesives cannot be analyzed for TAL VOAs since they will destroy the instrumentation. Appropriate alternatives are being utilized to ensure data can be used for disposal purposes.

Construction of the warming cells was completed during the operational period. The on-site laboratory was moved to one of the cells where all aliquots are now staged. Chemists also utilize this area for generating the composite samples that will aid in determining disposal options.

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

Progress Metrics

Waste Stream	Sub-Class	CompositeSamples Collected	Amount of Containers in Composite
NEUTRAL			
	N1	1	35
	N2	0	-
	N3a	1	35
	N3b		-
	N4	0	-
	N5	0	-
	N6	0	-
	N7	0	-
FLAMMABLE			
	F1a	1	33
	F1b	1	12
	F1c	1	11
	F1d	1	9
	F1e	1	12
	F1f (Liquid Brown)	1	12
	F1g (Liquid Brown)	1	12
	F1h (Liquid Brown on Water)	1	12
	F1i (Liquid Amber)	1	10
	F1j (Liquid Brown)	1	12
	F1 Grab	4	*
	F2a (Powder)	1	10
	F2b (Soil)	1	11
	F2c (Solid Chunks)	1	8
	F2d (Gel)	1	3
	F3a (Sludge Red)	1	12
	F3b (Sludge Browns)	1	12

	F3c (Sludge Browns)	1	12
	F3d (Sludge Browns)	1	10
	F3e (Sludge Browns)	1	11
	F4a (Acid Dark)	1	13
	F4b (Acid Light)	1	5
	F4c (Acid Brown)	1	12
	F4d (Acid Tan)	1	7
	F5a (Base)	1	7
	F6a (Paint Red/Cream)	1	8
	F6b (Paint Blue)	1	12
	F7a (Resin Clear)	1	5
	F7b (Resin Gray Sludge)	1	4
	F7c (Resin Red Sludge)	1	6
	F7d (Resin Black Liquid)	1	4
	F7e (Resin (Gold)	1	3
	F7f (Resin Brown)	1	5
	F7g (Resin Tan)	1	4
	F7h (Resin Multicolor)	1	7
	F7i (Resin White)	1	3
	F7j (Resin Red)	1	2
	F8a (Adhesive Black)	1	3
	F8b (Adhesive Red Orange)	1	3
	F8c (Adhesive Brown)	1	5
	F8d (Adhesive Green Yellow)	1	5
	F8e (Adhesive Tan)	1	2
	F8f (Adhesive Gray Blue)	1	4
	F8g (Adhesive Red Orange)	1	6
	F8h (Adhesive (Green Gray)	1	9
ACID			
	A1a (pH=4; low viscosity)	1	12
	A1b (pH=4; high viscosity)	1	10
	A1c (pH=3)	1	11
	A1d (Acidic Solids)	1	5
	A1e (pH=1)	1	3
	A1f (pH=2)	1	7
	Grab (difference in properties prevent from bulking)	11	*
	A2a (pH=3-4)	1	11
	A2b (pH=3-4)	1	12
BASE			
	B1a (pH=14)	1	2
	B1b (pH=14)	1	2
	B1c (pH=13)	1	2
	B1d (pH=13)	1	8
	B1e (pH=12)	1	4
	B1f (pH=11)	1	7
	B1g (pH=10)	1	7
	B1h (pH=10)	1	5

	B1i (pH=10)	1	7
	B1j (pH=11)	1	4
	B1k (pH=11)	1	9
	B1l (pH=14)	1	3
	B1m (pH=13)	1	2
	B1n (pH=13)	1	3
	B1o (pH=12)	1	4
	B1p (pH=10)	1	2
	B1q (pH=10)	1	2
	Grab (difference in properties prevent from bulking)	4	*

* Grab samples are collected from one container and are not bulked due to unique features.

Anticipated Activities

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

Following close-of-business on December 20, 2013 the site closed for the Christmas and New Year holidays. Twenty-four hour security will be posted during this time. Operational activities will resume on January 6, 2014.

Planned Response Activities

During the next operational period field crews will continue to segregate materials into appropriately designated areas based on hazard class. This will create a more organized operation. Propane heating services will be procured to provide warmth to the cells.

Field chemists and T&D coordinators will continue to develop the bulking schemes based on waste class. Personnel will re-visit the neutral waste stream and process materials with a HazMat ID. This will aid in determining any non-neutral materials that were not seen during the HazCat operations. In particular, composite samples previously collected for the N1 waste stream will be reviewed more closely to determine a better bulking strategy.

As analytical data is received, site managers will review the results and consult with the T&D Coordinator. Bids for the disposal of materials will be generated by waste class.

Additional action items that will be addressed include the propane tanks, waste removal, container destruction, inspection of potentially buried underground storage tanks and drums, and collection of additional multi-media samples.