U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Belpre Diethylether Release - Removal Polrep
Final Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #2**
Final
Belpre Diethylether Release
C51F
Belpre, OH
Latitude: 39.2784500 Longitude: -81.6378400

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Date: 1/31/2014

Reporting Period: January 11-14, 2014

1. Introduction

1.1 Background

Site Number:	C51F	**Contract Number:**	
D.O. Number:		**Action Memo Date:**	
Response Authority:	CERCLA	**Response Type:**	Emergency
Response Lead:	EPA	**Incident Category:**	Removal Action
NPL Status:	Non NPL	**Operable Unit:**	
Mobilization Date:	1/9/2014	**Start Date:**	1/9/2014
Demob Date:	1/14/2014	**Completion Date:**	1/14/2014
CERCLIS ID:		**RCRIS ID:**	
ERNS No.:		**State Notification:**	
FPN#:		**Reimbursable Account #:**	

1.1.1 Incident Category
Emergency Response

1.1.2 Site Description
Kratron Polymers facility on Davis Creek, which is a tributary to the Ohio River.

1.1.2.1 Location
Kraton Polymers located at 2419 State Route 618, Belpre, Ohio 45714

Latitude: N 39.27845
Longitude: W-81.63790

1.1.2.2 Description of Threat
Release of cyclohexane and diethylether into a retention pond that flows to Davis Creek, which is a tributary to the Ohio River. Both chemicals were detected in laboratory analytical samples obtained from Davis Creek approximately 100 yards from the Ohio River.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results
Visible sheen and elevated Photoionization (PID) results detected in the on-site pond and off-site in Davis Creek.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative
EPA responded, at the request of Ohio EPA, to provide oversight on the PRP response actions to the release.

2.1.2 Response Actions to Date
On January 11, 2014, two (2) 8' carbon filtration systems arrived on-site and began to filter the pond water, which discharges to Davis Creek and the Ohio River. Sampling by the PRP continued every three hours throughout the day. Three samples from the Ohio River contained detectable concentrations of diethylether with a maximum concentration of 16.2 ug/L. By the end of the day, results ranged from 40.6 ug/L (Pond Inlet, Station 01) to 883 ug/L (Outfall 001) cyclohexane and 74.9 ug/L (Davis Creek) to 2712 ug/L (Outfall 001) diethylether. The results from the Belleville Dam sampling location were non-detect. Sampling every three hours remained in effect at each sampling location until there was 48-hours of non-detect results.

On January 12, 2014, two (2) 10' carbon filtration systems were delivered to the site. The 0900 sampling event showed all results for diethylether below the 1250 ug/L mark, ranging from 44.2 ug/L (Pond Inlet, Station 01) to 1130 ug/L (Outfall 001). One sample from the Ohio River contained detectable amounts of diethylether and cyclohexane at 72.5 and 3.5 ug/L, respectively. All samples collected from the Belleville Dam sampling location were non detect. By the end of the day, the 3-hour sampling results ranged from 11.6 ug/L (Davis Creek) to 74.7 ug/L (Outfall 001) cyclohexane and 22.3 ug/L (Pond Inlet, Station 01) to 454 ug/L (Outfall 001) diethylether.

On January 13, 2014, two (2) 8' and one 10' carbon filtration systems were running and discharging to Outfall 001 with non-detectable concentrations of diethylether and cyclohexane. The PRP was able to adjust flow into the pond and patch leaks in the dam to ensure that all discharged water was passing through carbon filtration. By the end of the day, the results ranged from non-detect (Davis Creek) to 53.4 ug/L (Outfall 001) cyclohexane and 24.5 ug/L (Davis Creek) to 248 ug/L (Outfall 001) diethylether. All twenty-seven (27) Ohio River samples taken were non-detect, and sampling stopped at the Belleville Dam because samples had been non-detect for 48-hours. The PRP took two (2) samples from the Little Hocking Water Facility before and after the filtration system and the results of the sampling event were non-detect.

The PRP has agreed to continue sampling, aeration, and carbon filtration until non-detect levels were reached for 48-hours. The Little Hocking Water Facility will be sampled on Mondays and Thursdays for the next three (3) weeks. Analytical data will be distributed to EPA daily, and the PRP will immediately notify EPA of any significant changes.

As of January 14 ,2014, all Ohio River sample locations, the discharge water from Outfall 001, Bellevue Dam location and Little Hocking water plant were non-detect for the contaminants of concern. Air monitoring at all locations showed background levels.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)
Kraton Polymers is the PRP.

2.1.4 Progress Metrics

Waste Stream	*Medium*	*Quantity*	*Manifest #*	*Treatment*	*Disposal*

Regional Metrics		
This is an Integrated River Assessment. The numbers should overlap.	Miles of river systems cleaned and/or restored	0
	Cubic yards of contaminated sediments removed and/or capped	0
	Gallons of oil/water recovered	0
	Acres of soil/sediment cleaned up in floodplains and riverbanks	0
Stand Alone Assessment	Number of contaminated residential	0

	yards cleaned up	
	Number of workers on site	75
Contaminant(s) of Concern	Diethylether and Cyclohexane	
Oil response Tracking		
Estimated volume	Initial amount released	0
	Final amount collected	N/A
CANAPS Info	FPN Ceiling Amount	N/A
	FPN Number	N/A
	Body of Water affected	N/A

2.2 Planning Section

2.2.1 Anticipated Activities

- Continue to treat all discharge through carbon filters with sampling at the Pond Inlet, Outfall 001 to confirm effectiveness of treatment .
- Continue to sample and analyze Little Hocking Water plant samples as precautionary measure.

2..2.1.1 Planned Response Activities

Kraton will continue treatment of discharge water, hazing of wildlife and will keep the Agencies notified if conditions change. EPA OSC and START demobilized on 1/14/2014.

2.2.1.2 Next Steps

None,

2.2.2 Issues

None.

2.3 Logistics Section

N/A

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

N/A

2.5.2 Liaison Officer

N/A

2.5.3 Information Officer

N/A

3. Participating Entities

3.1 Unified Command

N/A

3.2 Cooperating Agencies

U.S. Fish & Wildlife Service
USEPA Region 5
Ohio EPA
Ohio DNR
West Virginia DNR

4. Personnel On Site

EPA - 1
START - 1

5. Definition of Terms

N/A

6. Additional sources of information

6.1 Internet location of additional information/report

www.epaosc.org/BelpreDEE

6.2 Reporting Schedule

N/A

7. Situational Reference Materials

N/A