

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
ECI West Tank Farm - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #5
Investigation AOC Completion
ECI West Tank Farm
Z5NW
Hammond, IN
Latitude: 41.6461097 Longitude: -87.4808876

To:
From: Mike Beslow, OSC
Date: 4/27/2017
Reporting Period: 11/18/2016 - 04/28/2017

1. Introduction

1.1 Background

Site Number:	Z5NW	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	PRP Oversight
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:		Start Date:	9/16/2014
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:	E14534	Reimbursable Account #:	

1.1.1 Incident Category

OPA Category - Former Tank Farm

1.1.2 Site Description

The former ECI Refinery is a former petroleum refinery located in East Chicago and Hammond, Indiana. Between 1916 and 1918, Sinclair Refining Company constructed the original refinery on the north parcels. The south parcels were used as a storage for petroleum products. Sinclair Refining Company operated the refinery until 1969 when it merged with Atlantic Richfield Company (Arco). Arco operated the facility until 1976 when it sold the facility. The maximum production at the facility occurred in 1970 with an average of 130,000 barrels per day and approximate peaks of 140,000 barrels per day. From approximately 1985 and 1989, the refinery was dismantled and demolished and all above ground structures were removed by 1990. The property is owned by the East Chicago Waterway Management District (ECWMD).

The site has been divided into seven (7) parcels for additional investigation. The parcels include the South Tank Farm, the Southwest Tank Farm, the South of the Southwest Tank Farm, the South of the South Tank Farm, the Pollution Control Area, the Hammond Tank Farm and the West Tank Farm. Please refer to the ECI Refinery Sites map located in the documents section of the website for a delineation of the individual parcels. Most of the above ground structures associated with the refinery have been demolished. A Confined Disposal Facility (CDF) for the disposal of Indiana Harbor dredged sediment has been constructed in the former location of the Main Refinery and North Tank Farm. The ECI - West Tank Farm Site is the location of a former tank farm.

The Lake George Branch (Canal) of the Indiana Harbor and Ship Canal (IHSC) runs through the former ECI Refinery and the US Army Corps of Engineers maintains a navigational channel on the Canal east of the railroad bridge. The Canal discharges into Lake Michigan located approximately 3-miles away.

1.1.2.1 Location

The ECI - West Tank Farm site is located to the northwest of the ECI - South Tank Farm site, across the Lake George Branch of the Indiana Harbor Ship Canal (IHSC). The Site coordinates are 41.6461097 latitude and -87.4808876 longitude. The surrounding vicinity has mixed use properties, including industrial, commercial, residential, and a high school. The site is bounded to the north by an existing tank farm, to the east by a railroad line, with an abandoned industrial area beyond, including a confined disposal area for sediment dredged from the IHSC by the USACE, to the south by the Lake George Branch of the IHSC, and

to the west by unused industrial property.

1.1.2.2 Description of Threat

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

The ECI - West Tank Farm site was subject to historical investigations. These studies indicated that the shallow groundwater beneath the site was contaminated with hydrocarbons, and that these hydrocarbons were migrating off site and into the Canal. Arco installed and maintains boom along the bank of the site and in several areas perpendicular to the bank across the Canal.

Light Non-Aqueous Phase Liquid (LNAPL) is present on the West Tank Farm, and is likely a result of multiple releases over the operational history of the Site. Based on previous field observations and historical records, LNAPL present at the Site is thought to be weathered diesel or heating oil with some lubricants. In February 2013, Arco documented 1.97 feet of LNAPL in an onsite groundwater monitoring well. The Site has approximately 300 feet of bank along the Canal.

On September 16, 2014, EPA and START mobilized to the site to collect samples to determine the threat of discharge of petroleum. EPA and START were accompanied by Arco contract personnel who collected split samples. Soil and water/sheen sampling confirmed the presence of petroleum hydrocarbons on the bank of the Site and in the Canal. EPA and START also observed / documented oil discharging from the bank of the Site into the Canal. Oil has been documented between the boom parallel to the bank and the bank of the Site. Please see the 'Images' section of the web site for photos.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

See the previous POLREPs for previous actions.

During the reporting period, Arco continued to a) operate a passive well collection system on the Site, b) maintain containment and absorbent boom on the Canal, c) collect oil contaminated sorbents / boom on the Canal and d) conduct hazing operations at the site. Arco has installed a Wetland Wailer to deter wildlife from contacting oil in the Canal. EPA and USFWS conducted oversight of waterfowl mitigation measures. Arco has completed their investigation work under the Administrative order on Consent.

ARCO has submitted the following proposed timeline to mitigate abandoned pipelines that may be having negative effects on the project.

- May 1, 2017 -Work Plan submittal to USEPA
- May – June 2017 - USEPA Review/Approval
- May - August 2017 - Permitting
- July 2017 - Finalize Work Plan
- August - September 2017 - Procurement
- October 2017 - Mobilization

START continued semi-weekly site visits to document responsible party contractor efforts to maintain boom and haze wildlife from the site.

Site activities are coordinated with actions at the ECI - South Tank Farm Site.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

Arco is aware that another order is being drafted for the next phase of the project. It is currently being reviewed by various EPA personnel.

2.1.4 Progress Metrics

EPA has drafted a follow up AOC

As of 28 April 17, ARCO has submitted a pipeline decommissioning Work Plan

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

- Oversee hazing operations designed to deter wildlife from contacting oil
- Continue to evaluate boom deployment / maintenance to mitigate impact to the environment
- Coordinate response actions with stakeholders
- Document conditions at the site
- Take environmental remediation actions to mitigate the release of oil

2.2.1.2 Next Steps

EPA and START will continue site visits to document RP efforts to maintain boom and haze wildlife

2.2.2 Issues

2.3 Logistics Section

Arco has provided waterfowl deterrence measures, boats, personnel, maintains boom, and collects sorbents/boom in the Canal.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

A health and safety plan for Site has been developed and approved.

2.5.2 Liaison Officer

Not applicable.

2.5.3 Information Officer

Not applicable.

3. Participating Entities

3.1 Unified Command

NA

3.2 Cooperating Agencies

Indiana Department of Environmental Management

Indiana Department of Natural Resources

United States Fish and Wildlife Service

East Chicago Waterway Management District

United States Coast Guard

United States Army Corps of Engineers

United States Department of Agriculture - Animal and Plant Health Inspection Service

4. Personnel On Site

Intermittent / Varies

5. Definition of Terms

AOC	Administrative Order by Consent
Arco	Atlantic Richfield Company
BTEX	Benzene, toluene, ethylbenzene, toluenes
CDF	Confined Disposal Facility
COC	Constituent of Concern
ECWMD	East Chicago Waterway Management District
EPA	Environmental Protection Agency
FPN	Federal Project Number
HASP	Health and Safety Plan
IDEM	Indiana Department of Environmental Management
IDNR	Indiana Department of Natural Resources
IHSC	Indiana Harbor and Ship Canal
LIF	Laser-Induced Fluorescence
LNAPL	Light Non-Aqueous Phase Liquid
OPA	Oil Pollution Act
NA	Not Applicable
NOFI	Notice of Federal Interest
OSC	On-Scene Coordinator
OSLFT	Oil Spill Liability Trust Fund
PAH	Polycyclic aromatic hydrocarbons
PolRep	Pollution Report
PRP	Potentially Responsible Party
PRFA	Pollution Removal Funding Authorization
SIWP	Site Investigation Work Plan
START	Superfund Technical Assessment and Response Team
TPH	Total petroleum hydrocarbons

USACE United States Army Corps of Engineers
USCG United States Coast Guard
USFWS United States Fish and Wildlife Service

6. Additional sources of information

6.1 Internet location of additional information/report

The website for the Site can be located at www.epaosc.org/ECIWestTankFarm

Images can be located at http://www.epaosc.org/site/image_list.aspx?site_id=9495

The website for the ECI - South Tank Farm Site can be located at www.epaosc.org/ECISouthTankFarm

6.2 Reporting Schedule

The On-Scene Coordinator will issue additional POLREPS, as required.

7. Situational Reference Materials

Additional documents can be located:

http://www.epaosc.org/site/doc_list.aspx?site_id=9495