United States Environmental Protection Agency
Region V
POLLUTION REPORT

Date: Thursday, July 3, 2003
From: Steven Faryan

Subject: Lockformer
711 Ogden Avenue, Lisle, IL
Latitude: 41.8017000
Longitude: -88.0625000

POLREP No.:	7	**Site #:**	B5Y5
Reporting Period:	1 June 2003 to 2 July 2003	**D.O. #:**	
Start Date:		**Response Authority:**	CERCLA
Mob Date:	7/22/2002	**Response Type:**	
Demob Date:		**NPL Status:**	
Completion Date:		**Incident Category:**	Removal Action
CERCLIS ID #:		**Contract #**	
RCRIS ID #:			

Site Description
See site Profile Page

Current Activities
U.S. EPA OSC Steve Faryan and Weston Solutions Inc. (WSI) START Member provide oversight , while PRP contractors initiated remediation of the surficial silty clay till and fill in Area 2 with Electrical Resistive Heating (ERH) technology and the mass waste sand and gravel in Area 1 and 2 with SVE technology. OSC and START also provided oversight for the air monitoring and sampling conducted by the PRP during operation of the SVE system and ERH system.

SVE System

■ All SVE wells and vapor piezometers are installed in Area 1 and 2.
■ Above and below surface SVE piping is complete in Area 1 and 2.
■ The SVE manifold (48 SVE Extraction wells) in the remediation building is complete.
■ Security system is installed in the remediation building.
■ Clayton Group Services, Inc. and Fliteway Technologies, Inc. conducted inspection and testing of the SVE system.
■ On 10 June 2003, remediation of Area 1 and Area 2 mass waste unit with the SVE system was initiated.

ERH System

■ All electrodes are installed in Area 1 and 2. Installation of eleven electrodes in the degreaser pit area are yet to be installed.
■ All temperature probes are installed in Area 1 and 2. Two temperature probes in the degreaser area have yet to be installed.
■ All vacuum piezometers are installed.
■ ERH remediation fence is erected and proper signs are displayed.
■ Double beam security system is installed around the perimeter of the plenum.
■ All ERH equipment (PCU, blower, condenser, cooling tower, heat exchanger) is on site.
■ The hook-up of the ERH system in Area 2 is complete.
■ Thermal Remediation Services Inc. and Lockformer's private electrician conducted inspection and testing of the ERH system in Area 2.
■ On 24 June 2003, the ERH system was turned on in Area 2.
■ On 30 June 2003, the temperature of the surficial silty clay till and fill in Area 2 is at 15 degrees C

Common Features for SVE/ ERH System

■ The construction of the remediation building is complete.

■ Site perimeter fence is erected and proper signs are displayed.
■ Weather station is installed onsite and is operating.
■ SVE/ ERH software is installed and operating, so that the SVE and ERH system can be monitored and controlled through a computer on site and off site.
■ On 11 and 12 June 2003, Lisle Fire and Police department were given a walkthrough and orientation of the site.

Sampling and Air Monitoring

■ The hydrocarbon analyzer is installed and operating. Air monitoring is being conducted from five different ports (ERH inlet, SVE/ERH inlet, Intermediate/ after first vapor carbon, stack/effluent and inside Lockformer plant).
■ Hydrocarbon analyzer readings for the ERH inlet ranged from 20 ppm-167 ppm, SVE/ERH inlet ranged from 20 ppm-78 ppm, Intermediate/ after first vapor carbon ranged from 17 ppm-44 ppm , stack/effluent ranged from 15 ppm-44 ppm and inside Lockformer plant ranged from 1.6 ppm-3.8 ppm.
■ Background samples were collected from all sample locations.
■ Outside perimeter and indoor ambient air monitoring was conducted using a Miran Sapphire and/or PID.
■ Outside perimeter readings have been not-detects (ND) and indoor ambient air monitoring ranged from 1.0 ppm-1.8 ppm.
■ Summa canister samples were colleted from the ERH inlet, SVE/ERH inlet, Intermediate/ after first vapor carbon, stack/effluent, inside Lockformer plant, site perimeter and residential area. U.S. EPA method TO-15 is being used.
■ Summa canister sample data while SVE was operating and prior to ERH start-up shows that TCE concentrations from the SVE inlet range from 9.5 ppm- 11 ppm, Intermediate/ after first vapor carbon ND-0.0035 ppm, stack/effluent ND-0.0016, inside Lockformer plant ND-0.0018 and site perimeter and residential area TCE was not detected.
■ Tedlar bag samples were collected from the ERH inlet, SVE/ERH inlet, Intermediate/ after first vapor carbon, stack/effluent, inside Lockformer plant, SVE extraction wells (48 wells) and vacuum piezometers (25 wells) and screened with a Miran Sapphire and/or PID. Certain samples were also sent to a local lab for quick turnaround. U.S. EPA method 18 is being used.

Planned Removal Actions

■ PRP will continue remediating the surficial silty clay till and fill in Area 1, 2 with Electrical Resistive Heating (ERH) technology.

■ PRP will continue remediating the mass waste sand and gravel in Area 1 and 2 with SVE technology.

Next Steps

■ Continue remediating the surficial silty clay till and fill in Area 2 with Electrical Resistive Heating (ERH) technology and the mass waste sand and gravel in Area 1 and 2 with SVE technology.

■ Install the eleven electrodes and two temperature probes in the degreaser area.

■ Hook-up the ERH system in Area 1 and degreaser area.

■ Start remediating surficial silty clay till and fill in Area 1 and degreaser area.

■ Continue conducting air monitoring and sampling.

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