

**DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION**

**RCRA Corrective Action  
Environmental Indicator (EI) RCRIS code (CA750)  
Migration of Contaminated Groundwater Under Control**

**Facility Name:** Clifton Precision North  
**Facility Address:** Marple and Broadway Avenues, Clifton Heights, PA  
**Facility EPA ID #:** PAD 013 975 495

1. Has all available relevant/significant information on known and reasonably suspected releases to the groundwater media, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this EI determination?
- If yes - check here and continue with #2 below.
- If no - re-evaluate existing data, or
- if data are not available, skip to #8 and enter "IN" (more information needed) status code.

**BACKGROUND**

**Definition of Environmental Indicators (for the RCRA Corrective Action)**

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

**Definition of "Migration of Contaminated Groundwater Under Control" EI**

A positive "Migration of Contaminated Groundwater Under Control" EI determination ("YE" status code) indicates that the migration of "contaminated" groundwater has stabilized, and that monitoring will be conducted to confirm that contaminated groundwater remains within the original "area of contaminated groundwater" (for all groundwater "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

**Relationship of EI to Final Remedies**

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, (GPRA). The "Migration of Contaminated Groundwater Under Control" EI pertains ONLY to the physical migration (i.e., further spread) of contaminated ground water and contaminants within groundwater (e.g., non-aqueous phase liquids or NAPLs). Achieving this EI does not substitute for achieving other stabilization or final remedy requirements and expectations associated with sources of contamination and the need to restore, wherever practicable, contaminated groundwater to be suitable for its designated current and future uses.

**Duration / Applicability of EI Determinations**

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

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2. Is **groundwater** known or reasonably suspected to be “contaminated”<sup>1</sup>; above appropriately protective “levels” (i.e., applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action, anywhere at, or from, the facility?

- If yes - continue after identifying key contaminants, citing appropriate “levels,” and referencing supporting documentation.
- If no - skip to #8 and enter “YE” status code, after citing appropriate “levels,” and referencing supporting documentation to demonstrate that groundwater is not “contaminated.”
- If unknown - skip to #8 and enter “IN” status code.

**Rationale and Reference(s):**

The Facility operated from 1955 until 1994 as an electrical components manufacturer. All waste, equipment, and storage containers were removed from the Facility between July 1993 and August 1994. PADEP conducted hazardous waste inspections from 1982 until 1996. EPA conducted an Environmental Priorities Initiative inspection and assessment in 1990. PADEP conducted an Environmental Indicators inspection and assessment in 2007.

The Facility managed solvent and electroplating treatment waste. Waste materials were stored in detached structures. The structures were removed when the Facility was closed. Facility documents, including inspection reports, identify no releases or spills at the facility.

No groundwater data is available. No wells exist on the Facility or on nearby properties. Groundwater was not encountered during the excavation of a fuel oil tank that was removed in 1994 (12 foot deep excavation). The expected direction of groundwater flow is to the east, toward Darby Creek and Cobbs Creek. Flow direction is based on topographical observations and the role of streams as discharge points for groundwater.

Properties within a 3-mile radius use public water supplies as a potable water source, with the exception of one residential well. The residential well is located adjacent to Darby Creek, approximately ½ mile from the Facility. The well is located upstream of the Facility and hydraulically upgradient of the expected direction of groundwater flow. Although there is no evidence or reports of releases of contaminants from the facility, and the residential well is located upgradient of the Facility, several attempts were made to sample the well water as a precautionary measure. The resident/property owner did not provide permission to sample the well water.

References

- *Environmental Indicators Inspection Report, Clifton Precision (also known as Litton Corporation and Capp Real Estate)*, prepared for PA Department of Environmental Protection, Harrisburg, PA, October 2007, URS
- *Environmental Priorities Initiative Preliminary Assessment of Litton Systems, Incorporated*, prepared for the Hazardous Site Control Division, US Environmental Protection Agency, 7/10/90, NUS Corporation
- *PADER UST Closure Report Form, Clifton Precision North, 4/7/94*, BCM Engineers Inc.
- PADER hazardous waste inspection reports, 1982 through 1996

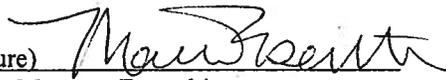
**Footnotes:**

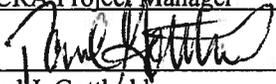
<sup>1</sup>“Contamination” and “contaminated” describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriate “levels” (appropriate for the protection of the groundwater resource and its beneficial uses).

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8. Check the appropriate RCRIS status codes for the Migration of Contaminated Groundwater Under Control EI (event code CA750), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (attach appropriate supporting documentation as well as a map of the facility).

- YE - Yes, "Migration of Contaminated Groundwater Under Control" has been verified. Based on a review of the information contained in this EI determination, it has been determined that the "Migration of Contaminated Groundwater" is "Under Control" at the Crompton Corporation Petrolia facility, EPA ID # PAD004388500, located at Route 269, Petrolia, Pennsylvania 16050. Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater" This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
- NO - Unacceptable migration of contaminated groundwater is observed or expected.
- IN - More information is needed to make a determination.

Completed by (signature)  Date 1-25-11  
(print) Maureen Essenthier  
(title) RCRA Project Manager

Supervisor (signature)  Date 1-26-11  
(print) Paul J. Gotthold  
(title) Associate Director, Land and Chemicals Division  
EPA, Region III

Locations where References may be found:

US EPA Region III  
Waste & Chemicals Management Division  
1650 Arch Street  
Philadelphia, PA 19103

Contact telephone and e-mail numbers

(name) \_\_\_\_\_  
(phone #) \_\_\_\_\_  
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