DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION Interim Final 2/5/99 RCRA Corrective Action Environmental Indicator (EI) RCRIS code (CA725) Current Human Exposures Under Control

Facility Name: MACtac Industries, Fitchburg Facility Facility Address: 900 East Corey Street Scranton, PA 18501 Facility EPA ID #: PAD 053 678 959

1. Has all available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, 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?

 \boxtimes If ves - 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 "Current Human Exposures Under Control" EI

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "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 "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

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).

2. Are groundwater, soil, surface water, sediments, or air **media** known or reasonably suspected to be **"contaminated**"¹ above appropriately protective risk-based "levels" (applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action (from SWMUs, RUs or AOCs)?

	Yes	<u>No</u>	?	Rationale/Key Contaminants
Groundwater	Х			ТРН
Air (indoors) ¹		X		
Surface Soil (e.g., <2 ft)		X		
Surface Water		X		
Sediment		X		
Subsurface Soil (e.g., >2 ft)	X			ТРН
Air (outdoors)		X		

If no (for all media) - skip to #6, and enter "YE," status code after providing or citing appropriate "levels," and referencing sufficient supporting documentation demonstrating that these "levels" are not exceeded.

- If yes (for any media) continue after identifying key contaminants in each "contaminated" medium, citing appropriate "levels" (or provide an explanation for the determination that the medium could pose an unacceptable risk), and referencing supporting documentation.
- If unknown (for any media) skip to #6 and enter "IN" status code.

Rationale and Reference(s):

Groundwater seeps into fractured bedrock down to former mine shafts in the Scranton area. Groundwater may have been impacted by leaking underground tanks at the underground storage tank farm, however no samples were collected to verify this condition. No wells are installed to verify the current conditions of groundwater within the area.

The facility has had a reduction of solvent usage and made a shift from a solvent based coating to hot melt and emulsion coatings which are lower VOC content coatings. Also, no indoor air concerns were noted during the last site visit.

There is a spill release report, dated October 1989, at the underground storage tank farm; soil in the area was excavated to bedrock, resampled and areas sampled were found to be below TPH risk-based levels or approved for backfill by PADEP. The former hazardous waste storage building achieved clean closure in 1985 and PADEP found no evidence of contamination either within the storage building or around its perimeter. The facility does not have a history of unaddressed spills that would indicate surface soil contamination.

There are no surface water bodies or sediment located near the facility. Residual contamination exists in the area of the former underground storage tank farm. It was not feasible to excavate these soils due to their location immediately adjacent to a water tower structure.

On June 26, 2000 the facility issued a Title V permit. Although complaints of suspected outdoor air contamination have been filed with PADEP, no contamination has been found to exist. A REECO fume incinerator, which must operate at least 95% efficiency, was installed in the coating line and drying oven areas to comply with VOC emission regulations.

¹ Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above (and adjacent to) groundwater with volatile contaminants) does not present unacceptable risks.

Footnotes:

¹ "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 appropriately protective risk-based "levels" (for the media, that identify risks within the acceptable risk range).

² Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above (and adjacent to) groundwater with volatile contaminants) does not present unacceptable risks.

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3. Are there **complete pathways** between "contamination" and human receptors such that exposures can be reasonably expected under the current (land- and groundwater-use) conditions?

Summary Exposure Pathway Evaluation Table

Potential <u>Human Receptors</u> (Under Current Conditions)

"Contaminated" Media	Residents	Workers	Day-Care	Construction	Trespassers	Recreation	Food ³
Groundwater	NO	NO	NO	YES	NO	NO	NO
Air (indoors)							
Soil (surface, e.g., <2 ft)							
Surface Water							
Sediment							
Soil (subsurface e.g., >2 ft)	NO	NO	NO	YES	NO	NO	NO
Air (outdoors)							

Instructions for Summary Exposure Pathway Evaluation Table:

1. Strike-out specific Media including Human Receptors' spaces for Media which are not "contaminated" as identified in #2 above.

2. enter "yes" or "no" for potential "completeness" under each "Contaminated" Media -- Human Receptor combination (Pathway).

Note: In order to focus the evaluation to the most probable combinations some potential "Contaminated" Media -Human Receptor combinations (Pathways) do not have check spaces ("____"). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.

- If no (pathways are not complete for any contaminated media-receptor combination) skip to #6, and enter "YE" status code, after explaining and/or referencing condition(s) in-place, whether natural or manmade, preventing a complete exposure pathway from each contaminated medium (e.g., use optional Pathway Evaluation Work Sheet to analyze major pathways).
- If yes (pathways are complete for any "Contaminated" Media Human Receptor combination) continue after providing supporting explanation.
- If unknown (for any "Contaminated" Media Human Receptor combination) skip to #6 and enter "IN" status code.

Rationale and Reference(s): Residents, workers and trespassers are not expected to contact groundwater or subsurface soils. According to the 1995 PPC Plan, there are no known groundwater supplies, either public or private, located downstream from the facility. Pennsylvania American Water Company supplies water to the local residents from an intake on the Lake Scranton Reservoir, which is less than five miles to the northwest. Due to the distance from the site, it is not expected that site groundwater would adversely impact this drinking water supply. There are no known day-care facilities in the area. There are no recreational waterways or parks in the area that could be impacted by potential contamination. Neighboring properties are mostly industrial and commercial with some residences in the general vicinity.

Construction workers could contact potentially contaminated groundwater. However, according to the Pennsylvania Geologic Survey much of the groundwater in the upper levels seeps through the fractured coal beds to the mineshafts beneath. Since groundwater has significant mining impacts and there are no known private wells, municipal water would be used for watering purposes at residential gardens. Therefore, it is not expected that food from residential gardens would be impacted. Also, it is not expected that site subsurface soils would impact food.

³ Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

- 4. Can the **exposures** from any of the complete pathways identified in #3 be reasonably expected to be **"significant**"⁴ (i.e., potentially "unacceptable" because exposures can be reasonably expected to be: 1) greater in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the acceptable "levels" (used to identify the "contamination"); or 2) the combination of exposure magnitude (perhaps even though low) and contaminant concentrations (which may be substantially above the acceptable "levels") could result in greater than acceptable risks)?
 - If no (exposures can not be reasonably expected to be significant (i.e., potentially "unacceptable") for any complete exposure pathway) skip to #6 and enter "YE" status code after explaining and/or referencing documentation justifying why the exposures (from each of the complete pathways) to "contamination" (identified in #3) are not expected to be "significant."
 - If yes (exposures could be reasonably expected to be "significant" (i.e., potentially "unacceptable") for any complete exposure pathway) - continue after providing a description (of each potentially "unacceptable" exposure pathway) and explaining and/or referencing documentation justifying why the exposures (from each of the remaining complete pathways) to "contamination" (identified in #3) are not expected to be "significant."

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If unknown (for any complete pathway) - skip to #6 and enter "IN" status code

Rationale and Reference(s): No construction activities are planned in the area of known subsurface soil contamination. It is reasonable to expect that during any construction activities proper personal protective equipment would be worn to protect against exposure to known subsurface soil contamination.

Due to groundwater conditions in the Scranton area, contamination is not suspected. However, due to the lack of site wells and subsurface soil contamination associated with the former underground storage tank farm, there is a potential for groundwater contamination. It is not expected that this potential contamination would be significant, since the most contaminated soil from this area was excavated and there is residual contamination remaining.

⁴ If there is any question on whether the identified exposures are "significant" (i.e., potentially "unacceptable") consult a human health Risk Assessment specialist with appropriate education, training and experience.

5. Can the "significant" exposures (identified in #4) be shown to be within acceptable limits?

If yes (all "significant" exposures have been shown to be within acceptable limits) - continue and enter "YE" after summarizing <u>and</u> referencing documentation justifying why all "significant" exposures to "contamination" are within acceptable limits (e.g., a site-specific Human Health Risk Assessment).

If no - (there are current exposures that can be reasonably expected to be "unacceptable")- continue and enter "NO" status code after providing a description of each potentially "unacceptable" exposure.

If unknown (for any potentially "unacceptable" exposure) - continue and enter "IN" status code.

Rationale and Reference(s):

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- Check the appropriate RCRIS status codes for the Current Human Exposures Under Control EI (event code CA725), 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, "Current Human Exposures Under Control" has been verified. Based on a review of the information contained in this EI Determination, "Current Human Exposures" are expected to be "Under Control" at the <u>MACtac Industries, Fitchburg</u> facility, EPA ID # <u>PAD 053 678 959</u>, located at <u>900 East Corey Street Scranton, PA 18501</u> under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

NO - "Current Human Exposures" are NOT "Under Control."

IN - More information is needed to make a determination.

Completed by

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(signature) John Hopkins (print) (title) Remedial Project Manager-(signature) (print)

Date 07/14/2015

Date 7/2/15

Supervisor

Locations where References may be found:

(title)

(EPA Region or State)

All reference documents are appended to the Environmental Indicator Report, which can be found at the USEPA Region III Office in Philadelphia and PADEP Northeast Regional Office in Wilkes-Barre.

US EPA Region III Land & Chemicals Division 1650 Arch Street Philadelphia, PA 19103 PADEP Northeast Regional Office 2 Public Square Wilkes-Barre, PA 18701-1915

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