DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

RCRA Corrective Action Environmental Indicator (EI) RCRIS code (CA725)

Current Human Exposures Under Control

Facility Name: J & L Specialty Steel Inc.

Facility Address: 12th Street & Midland Avenue, Midland, PA 15059

Facility EPA ID #: PAD 00 434 0444

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?						
	X If yes - check here and continue with #2 below.						
	If no - re-evaluate existing data, or						

____ if data are not available skip to #6 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).

Current Human Exposures Under Control Environmental Indicator (EI) RCRIS code (CA725)

Page 2

2. Are groundwater, soil, surface water, sediments, or air media known or reasonably suspected to be "contaminated" 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)?

	<u>Yes</u>	<u>No</u>	?	Rationale / Key Contaminants
Groundwater		X_		No record of contamination.
Air (indoors) ²		_X		No record of contamination.
Surface Soil (e.g., <	2 ft)	_X		Minor releases were remediated.
Surface Water		_X		Minor releases were addressed and corrected.
Sediment		_X		No record of contamination.
Subsurf. Soil (e.g., >		_X		No record of contamination.
Air (outdoors)	, <u></u>	_X		Minor releases were addressed and corrected.
appropriate "levels," and referencing s that these "levels" are not exceeded. If yes (for any media) - continue after i "contaminated" medium, citing approp determination that the medium could p supporting documentation.			and enter "YE," status code after providing or citing acing sufficient supporting documentation demonstrating ded. after identifying key contaminants in each appropriate "levels" (or provide an explanation for the could pose an unacceptable risk), and referencing	
If	unknown (for	any med	ia) - ski	p to #6 and enter "IN" status code.

Rationale and Reference(s):

Surface Water:

There were minor releases at the facility outfall. Most of the releases were related to the wastewater treatment plant and corollary NPDES violations for oil and pH. These releases were addressed and corrected promptly by the facility. Because the releases were minimal, natural attenuation (i.e., dilution and biodegradation) by the river was the primary mechanism of remediation. The releases were reported to the Pennsylvania Department of Environmental Protection (PADEP). (EI Inspection Report, 2/00)

Surface Soil:

There were minor releases of acid and oil to the soil from the manufacturing process. These releases were promptly addressed and remediated by the facility. The releases were reported to PADEP. (EI Inspection Report, 2/00)

Air (outdoors):

There were minor emission releases from the manufacturing process. The problems were corrected and were reported to PADEP. (EI Inspection Report, 2/00)

There are no records of suspected releases that are above protective risk-based "levels" by the facility. (EI Inspection Report, 2/00)

Footnotes:

"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).

²Recent 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.

Current Human Exposures Under Control Environmental Indicator (EI) RCRIS code (CA725)

Page 3

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

Reference(s):__

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

"Contaminated" Media	Residents	Workers	Day-Care	Construction	on Trespasse	ers Recreatio	on Food ³
Groundwater							
Air (indoors)							
Soil (surface, e.g., <2 ft) Surface Water							
Sediment Soil (subsurface e.g., >2							
Air (outdoors)							
Instructions for Summar	y Exposure Pa	athway Eva	aluation Tab	o <u>le</u> :			
 Strike-out sp "contaminated" enter "yes" of Receptor combination) as identified or "no" for po	d in #2 abo tential "co	ve.				
1	`	3,					
Note: In order to focus the Media - Human Receptor combinations may not be added as necessary.	r combinatior	ns (Pathwa	ıys) do not l	nave check	spaces ("	"). While the	ese
to #6, a place, contan	pathways are and enter "YE whether natural inated mediupathways).	E" status co ral or man-	ode, after ex made, prev	plaining an enting a con	d/or referenc nplete exposu	ing condition are pathway f	n(s) in- from each
	(pathways are nation) - conti					ıman Recepto	or
	nown (for any ter "IN" statu		nated" Med	ia - Human	Receptor cor	nbination) - s	skip to #6
Rationale and							

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

Current Human Exposures Under Control Environmental Indicator (EI) RCRIS code (CA725) Page 4

4.	Can the exposures from any of the complete pathways identified in #3 be reasonably expected to be "significant" (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."					
		If unknown (for any complete pathway) - skip to #6 and enter "IN" status code					
	Rationale and Reference(s):						
	(**/*==						

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.

Current Human Exposures Under Control Environmental Indicator (EI) RCRIS code (CA725) Page 5

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):						

Current Human Exposures Under Control Environmental Indicator (EI) RCRIS code (CA725)

Page 6

6.	(CA725), and ob	priate RCRIS status codes for the Current Hur tain Supervisor (or appropriate Manager) sigr	nature and date on the EI determination below					
	(and attach appropriate supporting documentation as well as a map of the facility):							
	X_	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 J & L Specialty Steel Inc. facility, EPA ID # PAD 00 434 0444, located at 12 th Street & Midland Avenue, Midland, PA 15059 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	(signature) (print) Khai M. Dao (title) Remedial Project Manager	Date <u>02-08-00</u>					
	Supervisor	(signature) (print) Paul Gotthold (title) PA. Operations Branch Chief (EPA Region or State) EPA, Region 3	Date <u>02-08-00</u>					
	Locations where References may be found:							
	1650 Aı Philadel	III nd Chemical Mgmt. Division och Street lphia, PA 19103						
	PADEP Southwest Regional Office 400 Waterfront Drive Pittsburgh, PA 15222-4725							
	Contact telephon	Contact telephone number and email:						

FINAL NOTE: THE HUMAN EXPOSURES EI IS A QUALITATIVE S CREENING OF EXPOSURES AND THE DETERMINATIONS WITHIN THIS DOCUMENT SHOULD NOT BE USED AS THE SOLE BASIS FOR RESTRICTING THE SCOPE OF MORE DETAILED (E.G., SITE-SPECIFIC) ASSESSMENTS OF RISK.

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