



INITIAL INVESTIGATION FIELD REPORT

Check this box if you have attached any documents to this form (using the paperclip icon on the left).

ERTS #(s):	714787
Parcel #(s):	
County:	Adams
FSID #:	77846522
CSID #:	16699
UST #:	

SITE INFORMATION

Site Name (Name over door): CF Industries Distribution Facilities	Site Address (including City, State and Zip): 2088 N. CFI Lane, Ritzville, WA	Phone Email
Site Contact, Title, Business: Lee DeYoung, Manager, Environmental, Health & Safety Compliance & DF Health Services	Site Contact Address (including City, State and Zip): 4 Parkway N, Suite 400 Deerfield, IL 60015	Phone Email lee.deyoung@cfindustries.com
Site Owner, Title, Business:	Site Owner Address (including City, State and Zip):	Phone Email
Site Owner Contact, Title, Business: Kelvin E. Roth, Vice President, Environmental, Health & Safety	Site Owner Contact Address (including City, State and Zip): 4 Parkway N, Suite 400 Deerfield, IL 60015	Phone Email kroth@cfindustries.com
Previous Site Owner(s):	Additional Info (for any Site Information Item): CF Industries-Ritzville-(509)-659-1412	
Alternate Site Name(s):	CF Industries-Deerfield, IL -Lee DeYoung-(847) 282-2872 Kelvin Roth (847) 405-2738	

Latitude (Decimal Degrees):	47.21930
Longitude (Decimal Degrees):	-118.23310

INSPECTION INFORMATION

Please check this box if there is relevant inspection information, such as data or photos, in an existing site report for this site.

Inspection Conducted? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Date/Time:	Entry Notice: Announced <input type="checkbox"/> Unannounced <input type="checkbox"/>
Photographs taken? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Note: Attach photographs or upload to PIMS	
Samples collected? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Note: Attach record with media, location, depth, etc.	

RECOMMENDATION

No Further Action (Check appropriate box below):	LIST on Confirmed and Suspected Contaminated Sites List: <input checked="" type="checkbox"/>
Release or threatened release does not pose a threat <input type="checkbox"/>	
No release or threatened release <input type="checkbox"/>	
Refer to program/agency (Name: _____) <input type="checkbox"/>	
Independent Cleanup Action Completed (contamination removed) <input type="checkbox"/>	

COMPLAINT (Brief Summary of ERTS Complaint):

Per Kelvin Roth-CF Industries- "Based on a month end inventory review, it was identified that there was a leak in an underground Urea Ammonia Nitrate (UAN) line from a nearby 11-million-gallon AST. Inventory records suggested that approximately 3,000 tons (500,000 gallons) of UAN had been released to the surrounding soil."

CURRENT SITE STATUS (Brief Summary of why Site is recommended for Listing or NFA):

Soil and groundwater contamination of ammonia, nitrates and nitrites is suspected above MTCA Method B cleanup level. Recommendation: List on Confirmed and Suspected Contaminated Sites List

Investigator: Sara Fulton	Date Submitted: 11/22/2022
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OBSERVATIONS**Please check this box if you included information on the Supplemental Page at end of report.**

Description (If site visit made, please be sure to include the following: site observations, site features and cover, chronology of events, sources/past practices likely responsible for contamination, presence of water supply wells and other potential exposure pathways, etc.):

The information in this initial investigation report form was provided directly from CF Industries Kelvin Roth. At this time, no investigative reports or labs have been received. The information below is suspected and not confirmed.

CF Industries Ritzville Terminal stores and distributes anhydrous ammonia, aqua ammonia, UAN and other related products to local distributors. The distributors resell the product for use in crop production. The facility has two 11-million gallon aboveground storage tanks (ASTs) onsite. One AST stores 32% UAN and the other stores anhydrous ammonia. There is an earthen dike around both ASTs. Additionally, there is a second concrete dike around several vertical ASTs for storage of aqua ammonia and other related fertilizer products.

In June 2022, Ecology received notification of a release of approximately 500,000 gallons of UAN to soil from a leaking underground pipe. There is uncertainty about when the UAN release began. CF Industries hired Hyde Environmental Inc to conduct several onsite subsurface investigation activities during July 2021 and June 2022 to assess soil and shallow groundwater impacts from the UAN release. According to Kelvin Roth, "Soil analytical results demonstrated concentrations were below the MTCA Method B cleanup levels of 130,000 milligrams per kilogram (mg/kg) for nitrate and 8,000 mg/kg for nitrite. However, groundwater analytical results for nitrate/nitrite as N ranged from 353 milligrams per liter (mg/L) to 30,400 mg/L, above the MTCA Method B cleanup level of 26 mg/L and the federal MCL of 10 mg/L for nitrate."

Three water supply wells are present on-site and completed at depths of 245 feet or deeper. These wells are used for potable, fire suppression, and process water.

According to the published well records, there are eight wells within an approximate one-mile radius of the site. The wells range in depth between 75 ft and 440 ft. The nearest and shallowest well is located 0.75 miles southeast of the terminal and is identified as the Gary Templin well on the Sprague Templins LLC property, a gas station located at Templin's County Corner, 2008 N. Drury Road.

Documents reviewed:

Roth, Kelvin. CF Industries Filled Out Initial Investigation Report. October 31, 2022 (date of received email).

CONTAMINANT GROUP	CONTAMINANT	SOIL	GROUNDWATER	SURFACE WATER	AIR	SEDIMENT	DESCRIPTION
Non-Halogenated Organics	Phenolic Compounds						Compounds containing phenols (Examples: phenol; 4-methylphenol; 2-methylphenol)
	Non-Halogenated Solvents						Organic solvents, typically volatile or semi-volatile, not containing any halogens. To determine if a product has halogens, search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is not a Cl, I, Br, F in the formula, it's not halogenated. (Examples: acetone, benzene, toluene, xylenes, methyl ethyl ketone, ethyl acetate, methanol, ethanol, isopropanol, formic acid, acetic acid, stoddard solvent, Naptha). <i>Use this when TEX contaminants are present independently of gasoline.</i>
	Polynuclear Aromatic Hydrocarbons (PAH)						Hydrocarbons composed of two or more benzene rings.
	Tributyltin						The main active ingredients in biocides used to control a broad spectrum of organisms. Found in antifouling marine paint, antifungal action in textiles and industrial water systems. (Examples: Tributyltin; monobutyltin; dibutyltin)
	Methyl tertiary-butyl ether						MTBE is a volatile oxygen-containing organic compound that was formerly used as a gasoline additive to promote complete combustion and help reduce air pollution.
	Benzene						Benzene
	Other Non-Halogenated Organics						TEX
	Petroleum Diesel						Petroleum Diesel
	Petroleum Gasoline						Petroleum Gasoline
	Petroleum Other						Oil-range organics
Halogenated Organics (see notes at bottom)	PBDE						Polybrominated di-phenyl ether
	Other Halogenated Organics						Other organic compounds with halogens (chlorine, fluorine, bromine, iodine). search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is a Cl, I, Br, F in the formula, it is halogenated. (Examples: Hexachlorobutadiene; hexachlorobenzene; pentachlorophenol)
	Halogenated solvents						PCE, chloroform, EDB, EDC, MTBE
	Polychlorinated Biphenyls (PCB)						Any of a family of industrial compounds produced by chlorination of biphenyl, noted primarily as an environmental pollutant that accumulates in animal tissue with resultant pathogenic and teratogenic effects
	Dioxin/dibenzofuran compounds (see notes at bottom)						A family of more than 70 compounds of chlorinated dioxins or furans. (Examples: Dioxin; Furan; Dioxin TEQ; PCDD; PCDF; TCDD; TCDF; OCDD; OCDF). <i>Do not use for 'dibenzofuran', which is a non-chlorinated compound that is detected using the semivolatile organics analysis 8270</i>
Metals	Metals - Other						Cr, Se, Ag, Ba, Cd
	Lead						Lead
	Mercury						Mercury
	Arsenic						Arsenic
Pesticides	Non-halogenated pesticides						Pesticides without halogens (Examples: parathion, malathion, diazinon, phosmet, carbaryl (sevin), fenoxycarb, aldicarb)
	Halogenated pesticides						Pesticides with halogens (Examples: DDT; DDE; Chlordane; Heptachlor; alpha-beta and delta BHC; Aldrin; Endosulfan, dieldrin, endrin)

CONTAMINANT GROUP	CONTAMINANT	SOIL	GROUNDWATER	SURFACE WATER	AIR	SEDIMENT	DESCRIPTION
Other Contaminants	Radioactive Wastes						Wastes that emit more than background levels of radiation.
	Conventional Contaminants, Organic						Unspecified organic matter that imposes an oxygen demand during its decomposition (Example: Total Organic Carbon)
	Conventional Contaminants, Inorganic	S	S				Non-metallic inorganic substances or indicator parameters that may indicate the existence of contamination if present at unusual levels (Examples: Sulfides, ammonia)
	Asbestos						All forms of Asbestos. Asbestos fibers have been used in products such as building materials, friction products and heat-resistant materials.
	Other Deleterious Substances						Other contaminants or substances that cause subtle or unexpected harm to sediments (Examples: Wood debris; garbage (e.g., dumped in sediments))
	Benthic Failures						Failures of the benthic analysis standards from the Sediment Management Standards.
	Bioassay Failures						For sediments, a failure to meet bioassay criteria from the Sediment Management Standards. For soils, a failure to meet TEE bioassay criteria for plant, animal or soil biota toxicity.
Reactive Wastes	Unexploded Ordnance						Weapons that failed to detonate or discarded shells containing volatile material.
	Other Reactive Wastes						Other Reactive Wastes (Examples: phosphorous, lithium metal, sodium metal)
	Corrosive Wastes						Corrosive wastes are acidic or alkaline (basic) wastes that can readily corrode or dissolve materials they come into contact with. Wastes that are highly corrosive as defined by the Dangerous Waste Regulation (WAC 173-303-090(6)). (Examples: Hydrochloric acid; sulfuric acid; caustic soda)

(fill in contaminant matrix above with appropriate status choice from the key below the table)

Status choices for contaminants	
Contaminant Status	Definition
B— Below Cleanup Levels (Confirmed)	The contaminant was tested and found to be below cleanup levels. (Generally, we would not enter each and every contaminant that was tested; for example if an SVOC analysis was done we would not enter each SVOC with a status of "below". We would use this for contaminants that were believed likely to be present but were found to be below standards when tested)
S— Suspected	The contaminant is suspected to be present; based on some knowledge about the history of the site, knowledge of regional contaminants, or based on other contaminants known to be present
C— Confirmed Above Cleanup Levels	The contaminant is confirmed to be present above any cleanup level. For example—above MTCA method A, B, or C; above Sediment Quality Standards; or above a presumed site-specific cleanup level (such as human health criteria for a sediment contaminant).
RA— Remediated - Above	The contaminant was remediated, but remains on site above the cleanup standards (for example—capped area).
RB— Remediated - Below	The contaminant was remediated, and no area of the site contains this contaminant above cleanup standards (for example— complete removal of contaminated soils).

Halogenated chemicals and solvents: Any chemical compound with chloro, bromo, iodo or fluoro is halogenated; those with eight or fewer carbons are generally solvents (e.g. halogenated methane, ethane, propane, butane, pentane, hexane, heptane or octane) and may also be used for or registered as pesticides or fumigants. Most are dangerous wastes, either listed or categorical. Organic compounds with more carbons are almost always halogenated pesticides or a contaminant or derivative. Referral to the HSDB is recommended if you are unfamiliar with a chemical name or compound, as it contains useful information about synonyms, uses, trade names, waste codes, and other regulatory information about most toxic or potentially toxic chemicals.

Dibenzodioxins and dibenzofurans are normalized to a combined equivalent toxicity based on 2,3,7,8-tetrachloro-p-dibenzodioxin as set out in WAC 173-340-708(8)(d) and in the Evaluating the Toxicity and Assessing the Carcinogenic Risk of Environmental Mixtures using Toxicity Equivalency Factors Focus Sheet (<https://fortress.wa.gov/ecy/clarc/FocusSheets/tef.pdf>). Results may be reported as individual compounds and isomers (usually lab results), or as a toxic equivalency value (reports).

FOR ECOLOGY II REVIEWER USE ONLY (For Listing Sites):

How did the Site come to be known: Site Discovery (received a report): _____ (Date Report Received)
 ERTS Complaint
 Other (please explain): _____

Does an Early Notice Letter need to be sent: Yes No
If No, please explain why: _____

NAICS Code (if known): _____
Otherwise, briefly explain how property is/was used (i.e., gas station, dry cleaner, paint shop, vacant land, etc.):

Site Unit(s) to be created (Unit Type): Upland (includes VCP & LUST) Sediment
If multiple Units needed, please explain why: _____

Cleanup Process Type (for the Unit): No Process Independent Action
 Voluntary Cleanup Program Ecology-supervised or conducted
 Federal-supervised or conducted

Site Status: Awaiting Cleanup Construction Complete – Performance Monitoring **Model Remedy Used?**
 Cleanup Started Cleanup Complete – Active O&M/Monitoring **If yes, was this a**
 No Further Action Required **transformer spill?**

Site Manager (Default: _____): _____

Specific confirmed contaminants include:

_____ in Soil
_____ in Groundwater
_____ in Other (specify matrix: _____)

Facility/Site ID No. (if known):

77846522

Cleanup Site ID No. (if known):

16699

COUNTY ASSESSOR INFO: Please attach to this report a copy of the tax parcel/ownership information for each parcel associated with the site, as well as a parcel map illustrating the parcel boundary and location.

