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DEPARTMENT OF HEALTH AND ENVIRONMENT

August 28, 2006

Mr. Scott Hayes, Chief Emergency Response & Removal Branch Superfund Division U.S. Environmental Protection Agency, Region 7 901 North 5th Street Kansas City, Kansas 66101

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SUBJECT: State of Kansas Applicable or Relevant and Appropriate Requirements for a Time-Critical Removal Action at the United Zinc #1 Site in Iola, Kansas

Dear Mr. Hayes:

This letter is in response to your e-mail request for a revised list of state of Kansas Applicable or Relevant and Appropriate Requirements (ARARs) for the United Zinc #1 site in Iola, Kansas. The Kansas Department of Health and Environment, Bureau of Environmental Remediation (KDHE/BER) previously submitted a complete list of Kansas ARARs and the policies or guidelines that are to be considered (TBC) standards to Mr. Ken Buchholz on August 14, 2006. However, with this submittal, those ARARs and TBCs that are deemed pertinent to this site have been highlighted for your convenience.

The state of Kansas ARARs are attached as Table 1 and the TBC standards for the site are attached as Table 2. Should EPA encounter unexpected or changed conditions at the site during the time-critical removal action or consider performing additional activities at a later date, including a Remedial Investigation/Feasibility Study, a revised set of ARARs and TBCs may need to be developed.

These ARARs and TBCs were also conveyed to Mr. Eddie McGlasson and Ms. Denise Roberts, via e-mail transmission on this date.

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SUPERFUND RECORDS

Mr. Scott Hayes August 28, 2006 Page 2

Please let me know if you would like clarification or require additional information. If you have any questions regarding this submittal, please call me at (785) 296-1682.

Sincerely,

Fred Molloy, P.G.

Unit Chief and Project Manager

Superfund Unit/Assessment and Restoration Section

Enclosure

FM: at

cc: Leo Henning → C3-001-71726

David Stutt, KDHE/SEDO Vicki O'Brien, KDHE/SEDO

Eddie McGlasson, EPA Region 7 OSC

Denise Roberts, EPA Region 7

TABLE 1 KANSAS POTENTIALLY APPLICABLE RELEVANT AND APPROPRIATE REQUIREMENTS

Citation	Description	Comment
Ambient Air, Quality Standards	Regulates air emissions from processing	Will be applicable if a
and Air Poliution Control	operations, indirect heating equipment, and	remedy results in the releas
	The same was a second to the second s	
	incinerators. Establishes requirements for	of contaminants to the air.
K.A.R. 28-19-1 to 28-19-801	Attainment and Non-Attainment Areas	CHARLEST TO
	Establishes requirements for Stack Heights :	
	Restricts open burning	
		学会员家 。在这么是否的
	A STATE OF THE PARTY OF THE PAR	· · · · · · · · · · · · · · · · · · ·
Asbestos Control	Established the requirements for licensing of	Will be applicable if asbest
	businesses and examination and certification	is handled or removed fron
K.A.R. 28-50-1 to 28-50-14	of asbestos workers. Established	site or encapsulated.
	requirement for notification of asbestos	ĺ
	projects. Establishes work practices for	}
	asbestos projects. Establishes rules for	
	disposal of asbestos containing materials.	
	Description of the little of t	West Land to Marco
Agricultural Chemicals,	Requires labeling and registration of	Will be applicable if
Commercial Fertilizers, Anhydrous	agricultural chemicals. Provides regulations	agricultural chemicals,
Ammonia, and Chemigation	for storage and secondary containment,	commercial fertilizers or
,	transportation and record keeping for	anhydrous ammonia are us
K.A.R. 4-1-1 to 4-1-17,	commercial fertilizers and anhydrous	at site. Will be applicable
	ammonia. Requires permitting and	chemicals or animal waster
K.A.R. 4-4-1 to 4-4-984,		
K.A.R. 4-10-1 to 4-10-17, and	certification of operators of chemigation	are applied by chemigation
K.A.R. 4-20-1 to 4-20-15	equipment.	
Construction, Operation,	Regulates the construction, operation,	Will be applicable if salt
Monitoring and Abandonment of	monitoring, testing and abandonment of salt	solution mining wells are
Salt Solution Mining Wells	solution mining wells.	present.
Asianom Liming Alpha		F
K.A.R. 28-43-1 to 28-43-11		
Emergency Planning and Right-to-	Designated to help local communities protect.	Will be applicable if
	public health, safety and the environment	hazardous chemicals are
	from chemical hazards. Enables communities	stored or used at a site
KAR-28-65-13628-65-4	to prepare to respond to unplanned releases of	
	chazurdous substances Requires facilities at	
	which hazardous substances are present to	[17] [17] [17] [17] [17] [17] [17] [17]
	report the presence of these materials to	
	emergency responders. Requires companies	
	to report the release of hazardous substances.	医
		en en rojek in die ein deel die 1955. Gebruik in 1955 in die 19
		TRA 110240-1-16
	An environmental use controls means an Au-	These restrictions are strict
	institutional control or administrative control.	voluntary as the landowner
CSA 65-1991 10 05-1983	are striction prohibition occunrol of one or	applies for the restriction to
ASVA 75	more uses of or activities on a specific in a	their property to mitigate th
GO TO THE WAR WAS THE THE	property as requested by the property/ownersal	risk posed to human health
	The property of the property of the party of	
	affine time of issuance; to ensure tuture stars protection of public health and the	and the environment from
	protection of public health and the contract	contamination at their
The property land	serviconment when environmentals	property (in lieu of active
	contamination which exceeds department	remediation):
AND NOW THE WAY	standards for unrestricted use remains on the	The state of the s
The Tong Shill state	standards for intrestricted use remains on the property following the appropriate assessment	問。這類的 多 。若多類的學
	Property to now mig. are appropriate assessment	10多次的最高的人,由于在
Aureon VIII Select	rand/or remedial activities as directed by the	Parallel Mariane
NA TARBOTA STATE	department pursuant to the secretary's	
AND THE PERSON OF THE PERSON O	Requires all contractors to obtain explosive	Will be applicable if
Explosive Materials		or appliantly H
Explosive Materials		explosives or blasting agent
•	storage site permits before moving, storing or	
Explosive Materials K.A.R. 22-4-1 to 22-4-4		explosives or blasting agent are used or stored at a site.

TABLE 1 KANSAS POTENTIALLY APPLICABLE RELEVANT AND APPROPRIATE REQUIREMENTS

REQUIREMENTS			
Citation	Description	Comment	
Www.domeWesteManagemints #2. StandardsendReplations #2.4#	Headilesthechaneterisiusandkistingote Tavadorsyyesia. Profittisymdegoyidd Buddlofferenddhawerendegoyisyesiadd DyfaPA of (1911). Isgalishestestigions	Will be applicable if	
STATIONAL OF STREET		MAZE COURT WAS IES AT C DIESCHI	
IZAR 20-20-00-20-00-00	DWEPAON (30113) Establishes restrictions		
	on lend disposel, les alleires en randsion generous portiens sortes ad him reposevasies les ablighes sand relations and provinces.		
	generio e di di con i co		
	idseblishes sentends to sezonous was extended		
Hydrocarbon Storage Wells and	storage treatment and disposal facilities as a system for permitting of	Will be applicable if	
Well Systems	hydrocarbon storage wells. Establishes	hydrocarbon storage wells	
······· Bystems	requirements for construction, operation and	are present at a site.	
K.A.R. 28-45-1 to 28-45-11	monitoring, and plugging of hydrocarbon	ļ	
	storage wells.		
Kansas Board of Technical	Establishes the requirements for licensing of	Will be applicable if the	
Professions	engineers, land surveyors, geologists and architects.	services of a geologist, engineer or land surveyor are	
K.A.R. 66-6-1 through 66-14-12	,	required for site	
		investigations or	
·		remediation.	
Kansas Drycleaner Environmental	Enacted to provide funds to assist with	May be applicable if a	
Response Act	assessment and corrective action of former and existing drycleaner facilities. Requires	drycleaner operated onsite.	
K.A.R. 28-68-1 to 28-68-9	registration of dry-cleaning facilities and		
10.71.10. 20 00-1 10 20 00-7	compliance with waste management		
	measures.		
	·		
Kansas Historic Preservation Act	Provides for the protection and preservation	Will be applicable if a site or	
	of sites and buildings listed on state or federal	building is listed on the state	
K.A.R. 118-3-1 to 118-3-16	historic registries.	or federal historic registry and if activities requiring	
		permitting are initiated at a	
		site.	
Kansas Water Appropriations Act	Establishes the requirements for obtaining,	Will be applicable if water	
	maintaining and transferring water	appropriations are required	
K.A.R. 5-1-1 through 5-10-6 and	appropriations.	for groundwater remediation.	
K.A.R. 5-50-1 to 5-50-8 Mined Land Reclamation	Allows for the reclamation of coal-mined	Will be applicable if coal-	
	land and associated waters.	mined land or associated	
K.A.R. 47-16-1 to 47-16-11		waters are to be reclaimed.	
Non-Game, Threatened or	Identifies Threatened and Endangered	Will be applicable if any of	
Endangered Species	Species	the identified species are	
K.A.R. 115-15-1 to 115-15-4	·	present at a site.	
PCB Facility Construction Permit	Establishes the requirement for permitting of	Will be applicable if	
Standards and Regulations	facilities constructed for the treatment,	treatment, storage or disposal	
Ū	storage or disposal of materials containing	of materials containing PCBs	
K.A.R. 28-55-1 to 28-55-5	polychlorinated biphenyls (PCBs).	occurs.	
	Establishes standards for PCB facilities.		
Th. M + F.	Paris de la constitución de la c	M/SII k1' - 1.1 - 10	
Pesticides	Requires licensing of pesticide businesses and certification of persons that apply pesticides.	Will be applicable if pesticides are present at a	
K.A.R. 4-13-1 to 4-13-65	contribution of persons that apply pesticides.	site or application of	
		pesticides occurs.	
		·	
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TABLE 1		
KANSAS POTENTIALLY APPLICABLE RELEVANT AND APPROPRIATE		
REQUIREMENTS		

REQUIREMENTS			
Citation	Description	Comment	
Petroleum Products Storage Tanks	Provides requirements for permitting of the	Will be applicable if	
K.A.R. 28-44-1 to 28-44-29	installation and operation of underground storage tanks (USTs). Provides requirements	petroleum storage tanks are or were present at a site.	
	for design and construction of storage tanks.	·	
	Provides a system for licensing contractors who install and test USTs. Requires		
	implementation of methods for detecting		
Radiation	releases and reporting releases from USTs. Regulations require registration of radiation	Will be applicable if	
Radiation	producing devices and licensing of sources of	radiation producing devices	
K.A.R 28-35-1 to 28-35-363	radiation. Provides standards for protection	or sources of radiation are	
	against radiation. Provides requirements for industrial radiographic operations and	present at or are used at a site.	
	wireline and subsurface tracer studies.		
Solid Waste Management - 4	Provides standards for management of solid	Will be applicable if solid	
K-A-R -28-29-14-728-20-121-0-14-1-	Wasies Pstablishes diministrative procedures Establishes the requirement on development and submits horisollow steeman agreement plans.	disposed at a site	
KAR-98-999101sto 28-79-9418	development and submittal of Solidi Waste		
100 (100 10 10 10 10 10 10 10 10 10 10 10 10	Management Plans: (1984) Requires reporting of unpermitted discharges	Will be applicable it	
Spul Reporting	o ccidental spills (Requires that see as	unpermitted discharges or	
TOTAL ASSESSMENT OF THE SECOND	containment, and immediate environmental as	accidental spills occur at a	
	response measures be implemented. Also de provides for rechnical assistance for mercury.	site 1	
大型電影影響等	related spills		
Underground Injection Control	Provides regulations governing the use of	Will be applicable if the	
Regulations	underground injection wells including: identification of the classifications of	remedy involves the injection of fluids or air into	
K.A.R. 28-46-1 to 28-46-44	injection wells; and the permitting,	the subsurface.	
	construction, operation, monitoring, testing,		
	and reporting requirements. Also provides requirements for plugging of injection wells.	•	
Underground Storage, Disposal	Regulates the construction and use of	Will be applicable if	
Wells and Surface Ponds	underground storage reservoirs, disposal wells and surface ponds for the confinement,	underground reservoirs, disposal wells or surface	
K.A.R. 28-13-1 to 28-13-9	storage and disposal of industrial fluids	ponds are used for storage or	
	including but not limited to brine. Also	disposal of industrial fluids	
	pertains to removal of material from surface ponds upon abandonment. Does not include	at a site. Will be applicable if use of a surface pond is	
	regulations pertaining to oil field activities.	discontinued.	
Voluntary Cleanup and Property	Provides a mechanism for property owners,	May be applicable if a site	
Redevelopment Program	facility operators, prospective purchasers, and local governments to voluntarily address	meets the criteria for acceptance into the	
K.A.R. 28-71-1 to 28-71-12	contaminated properties with technical and	Voluntary Cleanup Program.	
	regulatory guidance from KDHE. Identifies	Remedial standards established under KAR 28-	
	remedial standards for cleanup of environmental media. Establishes that	71-11 are relevant and	
	groundwater cleanup levels shall be based on	appropriate for all other sites	
	the most beneficial use of the groundwater (i.e., current and future use).	being managed under KDHE	
Water Pollution Control	Provides regulation of sewage discharge season	oversight. Will be applicable if water is	
	Establishes pre-treatment standards for a section	to be discharged to state	
KAR 28-16-1810 28-16-184	sindustry: Designales uses of nivers and see a second seco	waterways:	
	Sureams 12 Stablishes River Basin Odaniya. 2. Criteria and Surface Water Quality Griteria.		
	Provides for the establishment of Gridcals		
	Water Quality Management Areas.		
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TABLE 1 KANSAS POTENTIALLY APPLICABLE RELEVANT AND APPROPRIATE REQUIREMENTS			
Citation	Description	Comment	
Water Well Contractor's License; Water Well Construction and Abandonment	Establishes the requirements for licensing of drillers. Regulates drilling activities including the construction of wells.	Will be applicable if drilling and/or well construction or abandonment is conducted at a site.	
K.A.R. 28-30-1 to 28-30-10		1	

Considered a pertinent ARAR

TABLE 2 POLICIES AND GUIDELINES TO BE CONSIDERED

	TO BE CONSIDERED			
Citation	Description			
Kansas Department of Health and Environment (KDHE), P Bureau of Environmental Remodilation (BER), Ris (Based, Standard For Kansas, RSK (Manual), Marchille 2003, as amended	contaminants in Collean of count water			
Bevaluating Future 1- and User KDHE BER Policy #BER- RS-0051	Future land use influences (the types) and requencies of exposures that may/occur to any residual contamination fremaining on the site and the efforcing must be considered mismaking corrective action decisions.			
Recommended Remedial Levels for Nitrate in Soil, KDHE BER Policy #BER-RS-012.	Addresses nitrate and ammonia contamination in the soil from point sources of contamination.			
Investigation and Remediation of Salt (Chloride)- Impacted Soil and Groundwater, KDHE BER Policy #BER-RS-013A	Provides information on methods for investigating, evaluating and remediating soil and ground water contaminated with brine or salt.			
Consideration for Remedial Standards, KDHEIBERS	I denines remedial sandari sand siniations where they should be used.			
Soil Clean-up Levels for Total Petroleum Hydrocarbons, KDHE BER Policy #BER-RS-041	Establishes Total Petroleum Hydrocarbon (TPH) human health and environmental risk-based actions levels consistent with the procedures adopted within the Risk-Based Standards for Kansas (RSK) manual.			
Monitored Natural Attenuation, KDHE BER Policy #BER-RS-042.	Provides further clarification of additional KDHE-BER requirements to the guidance on monitored natural attenuation provided by EPA Directive 9200.4-17P.			
Considerations (c) Groundwater US and Applying RSK Sandard No Conferential of Groundwater (C) Hald at the Rolling (3) 3 (2) C/OS).	Establishes one distribution constitute Virginis (BER) - In the constitute of the co			
S ANS A SEER FOR SPECIAL OF PAINTERS OF SPECIAL PROPERTY OF SPECIA	Provides acconsistent definition and assessment approach a for contaminated sediment substitutions with the second sediment of the substitution and sediment of the sediment o			
Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA, EPA540-G-89-004, October 1988.	Provides the methodology that the Superfund program uses to characterize the nature and extent of risk posed by uncontrolled hazardous wastes sites and for evaluating potential remedial alternatives.			
Guidance for Quality Assurance Project Plans, EPA240-R-02-009, December 2002.	Describes the Quality Assurance Project Plan as four basic element groups covering project management, data generation and acquisition, assessment and oversight, and data validation and usability.			
Guidance for the Data Quality Objectives Process, EPA600-R-96-055, August 2000.	Provides a systematic planning process to develop acceptance or performance criteria for collection, evaluation, or use of environmental data.			
Risk Assessment Guidance for Superfund, Volume I, Part A EPA540-1-89-002, December 1989 Part B EPA540-R-92-003, December 1991 Part C EPA540-R-92-004, December 1991 Part D EPA540-R-97-033, December. 2001 Part E EPA540-R-99-005, July 2004.	Provide guidelines for conducting a baseline risk assessment.			
Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems, 2000, MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. Archives of Environmental Contamination and Toxicology 39:20-31.	Identifies Threshold Effect Concentration (TEC) to be used to assess impacts to sediment.			
Ground-Water Sampling Guidelines for Superfund and RCRA Project Managers, EPA542-S-02-001, May 2002.	Identifies methods for sampling groundwater.			
Remedial Design/Remedial Action Handbook, EPA540- R-95-059, June 1995.	Provides an overview of the remedial design and remedial action processes.			
Management of Remediation Waste under RCRA, EPA530-F-98-026, October 1998.	Describes management of contaminated environmental media, etc.			
Best Management Practices (BMPs) for Soils Treatment (Fechnologies, EPAS30-R-97-007, May 1997)	Describes various BMPs to be implemented during remedy implementation			

TABLE 2 **POLICIES AND GUIDELINES** TO BE CONSIDERED Citation Description Describes storm water pollution prevention measures. Storm Water Management for Construction Activities EPA832-R-92-005, October 1992. Guide to Discharging CERCLA Aqueous Wastes to Describes applicability and acceptable means of Publicly Owned Treatment Works, EPA OSWER conveyance to a POTW. Directive 9330.2-13FS, March 1991. Use of Monitored Natural Attenuation at Superfund, Describes EPA's policy regarding the use of monitored RCRA Corrective Action, and Underground Storage Tank natural attenuation for the remediation of contaminated Sites, EPA OSWER Directive 9200.4-17P, April 21, soil and groundwater at sites administered by EPA's 1999. Office of Solid Waste and Emergency Response.



Considered a pertinent TBC