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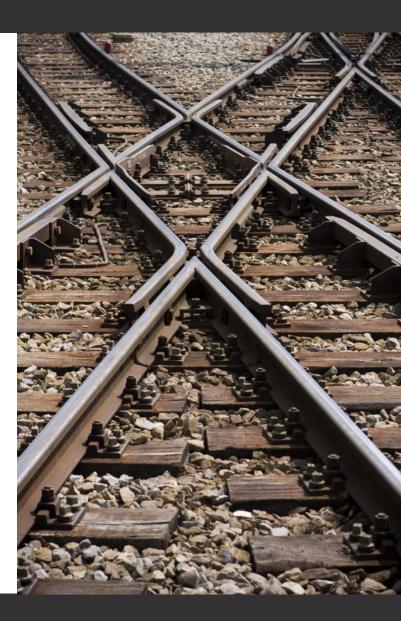
Managing Continuing Obligations Associated with Contaminated Site Closure using a Geographic Information System

Andrew Mott, Speaker; Sarah LeMoine, Dennis Lawton, AECOM Maura Matthews, Yves Decoste, CN

October 28, 2014

### Overview

- Background
- Concepts/Planning Phase
- Implementation Phase
- Conclusion





- Continuing obligations are legal requirements established by some state environmental regulatory agencies upon closure of contaminated sites that have residual contamination.
- The purpose of continuing obligations is to ensure the maintenance of certain physical or engineered systems or to limit land use or groundwater use.



- Examples of continuing obligations
  - Proper management of contaminated soil if excavated.
  - Obtaining approval for construction of water supply wells.
  - Operating and maintaining a vapor mitigation system.
  - Maintaining industrial zoning for sites where industrial soil standards were applied for closure.
  - Maintaining a specific use of the property, as defined in the closure letter, and notifying the state before changing that use
  - Maintaining an engineered barrier (cap) or an existing surface cap that were subject to a Cap Maintenance Plan.



- AECOM assisted CN in establishing a tracking system to manage their continuing obligations at closed contaminated sites in Wisconsin, Illinois, and Michigan.
- A primary goal was to implement and track annual site inspections and the need for corrective actions at sites with an engineered barrier (cap) or an existing surface cap that were subject to a Cap Maintenance Plan.

















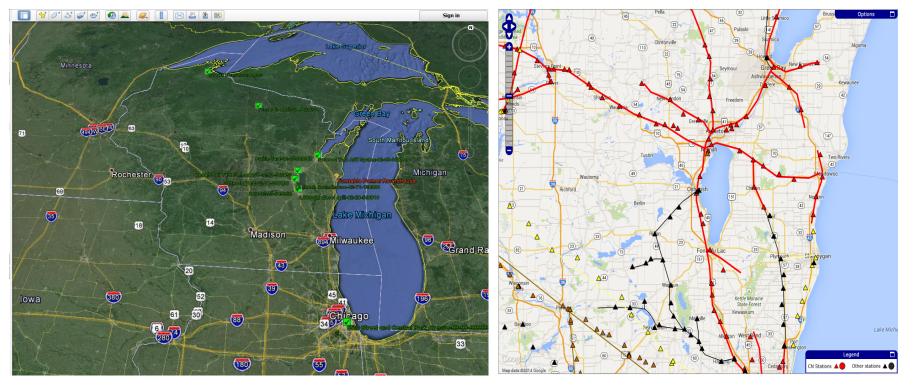


- CN Real Estate and Operations Group's goal to develop a tool to implement and track annual site inspection
  - Determine Sites that have an engineered system.
  - Track engineered system integrity.
  - Prevent engineered barrier disturbance.



### Concepts/Planning Phase

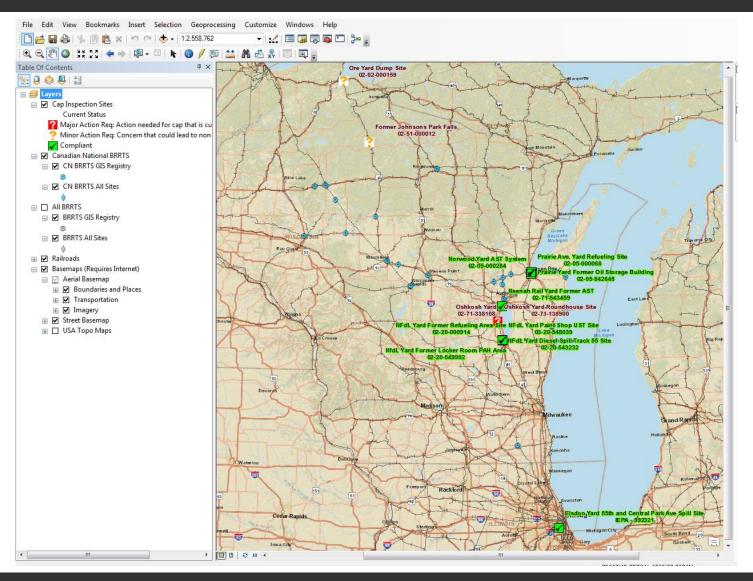
- Reviewed different geospatial data platforms
  - KMZ files or Google Earth
  - Data Mapper



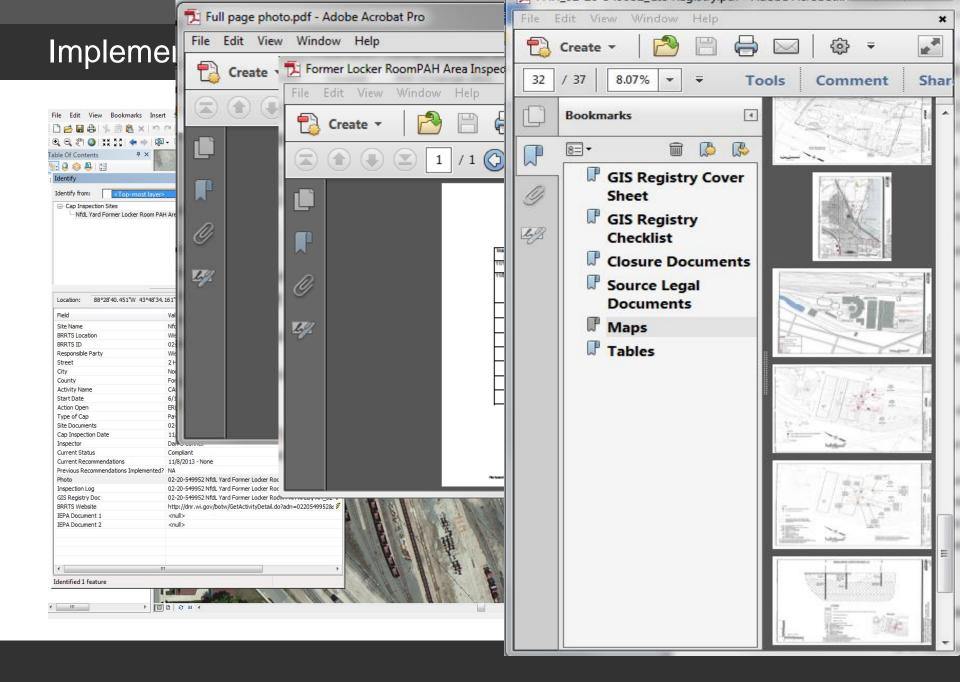


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Prairie Yard	Fan River Valley RR	Winnessia Central Ltd.	12-05-00060	Canadian Halinnal	х	•	2	1885. Prairie Aur	Green Bug, WI	Press	12/25/2887	252, 255	222	Direct Contact - Grand	Fall-Baseally	AECOM (STS)	2	Keld Lauridaea
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Alles Oil	Anisler International	Aniales International	82-85-163488	Tax Valley Weslers	~		•	Elgis & Shawana	Heward, WI	Preus	1/51/82885	292				AECOH (STS)	22	DCOM
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HA	Fas Valley Wyealers Ltd	Pau Valley Weaters Ltd	12-31-838418	Fas Valley Westers Ltd				River RAICTHE	Krusserr	Krusser	1/14/2005	292				22	22	DCOH
Yas Driver Oil	Wissessie Cratral Ltd	Willow Steerl Progreties	82-51-216566	Yas Drisse Oil			1	254Willow SI	Lauraharg, WI	Krusserr	1/25/2000	252, 255				22	HA	Keld Lauridaea
Parare Habil Oil - Valdera	Wissessie Central LIA	Quality State Oil [Habit Oil Loune Farmer]	82-36-274835	Canadian Halinnal Railenad				Spanneele/Jankonn/Likeely SI.	Valders,WI	Hasilouse	proding	235	228, 254	НА		AECOH	Hallbrus	Tam Veraleges
Halara Oil Carp	Halara Oil Carp	Halara Oil Carp	83-36-881362	Wissessie Cealeal LIM				1118 PaffalaSI	Hanilagan,WI	Hasilouse	11/10/2005	292, 295				22	22	DCOM
Taralable Farmer Rasadhasar	Wissessie Cysteat L14	uer.	82-55-175478	Canadian Halingal	~			SW Car 1116 B Daffala Sia	Hanilawan, WI		4/2/2007			Industrial Une; Haintain Enisting Surfaur Parrier (86)				Baselle Weinskaal
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Engine Honor	Tas Valley Westers	Fas Valley Westers Lid	82-45-125861	Anislee International	x		2	Whileson & Second SI	Applelan, WI	Onlagamir	1/12/2014	282		[Ha Deed Realeialian Heeded]		22	22	Jeanifee Darahi
Seidl Oil Ca [Farmer]	Seidl Oil Ca (Parare)	Seidl Oil Ca [Farmer]	12-45-186878	Fas Valley Westers				215 Ruileaud SI	Black Creek, WI	Onlagamie	4/25/2005	236		-		AECOM (STS)	Hagden	Tam Slave
HA [Servis Valley Comp]	Wissessie Cratral Ltd	Winnenin Central Lld	82-45-215825	Wissessie Central Ltd				WS884 Cealer Valley Rd	Center Valley, WI	Onlagamie	pradiag					22	22	Tem Slove
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HA Hey Referling AST Strarge Paint	Wissessie Cratrat Ltd CH RR	Terra International Inn	82-45-246992	Argo Dialrikaliaa LLC				H7718 STH 54	Skinelee, WI	Onlaquatie	7/28/2885	292				Hade East AECOM IE sells Tes	22	DCOH
	CHRR	Wie Creles LIN	12-50-275034	Wissessie Cealeal LIA	x		,	2281 Haarar SI	Straras Paial, WI	Parlage	11/14/2014	252,256	228	Indeeleist Ver			Hagden Hagden	Danid Rearbane
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He	Wissessie Cratral Ltd	Wissessie Cratrat LN	82-51-175574	Wissessie Central LIA				214 Plevi SI	Park Falls, WI	Print	2/24/2884	292				22	Handra	Phil Rinkard
Hannen Oil Leane - Parmer	Hannen Oil Leane - Parmer	WI Central LIN.	82-52-492779	Canadian Halinnal	X		2	258 Commercer SI	Parliadae, WI	Raniar	\$/25/2005	292				AECOH (STS)	Handra	Shanna Lanke
	WI Central LIA.	WI Central LIN.	82-52-881168	HA	x		-	258 Commercer SI	Parliaglas, WI	Ranier	\$/25/2005	252				AECOH ISTS	22	Shanna Lanke
Pel-Har Ealerpriara Leaar Sie	Pel-Har Eulerprises Lease Sie	Pel-Mae Eulergeinen - Leane Sile	83-52-884512	WI Control Link Pol Hav Ex				SB7 Overgan SI	Parlington, WI	Raniar	\$/\$4/2887					AECOH (STS)	22	Shanna Lanke
H 0() C.	Haas Oli Ca	Hass Oil Ca [Farmer]	12-55-00092	Wissessie Cratral Ltd				228 E. River Ave	Press,WI	Reak	2/5/2004					22 - Ennadrah	22	Dill Saballa
Quine, Lorry Sile	Quine, Loreg Sile	Quine, Loreg Sile	83-55-888742	Wissessie Central Ltd				STH 48 b H Dlasbbara	Press, WI	Reek	8/51/2887	292, 296				22	22	Dill Saballa
Rileway Polk Plan	Rileway Palk Plan	Rileway Palk Pil	82-55-888562	Wissessie Cratral LId				Hug 27 H	Flambran, WI	Reek	5/22/2005					22	Hagden	DCOM
He Helesele Oil	Wissessie Cratrat Ltd Halasake Oil	Wissessie Crairal Lid Helesebr 0:1	82-55-476797	Wissessie Cratrat Ltd Wissessie Cratrat Ltd				SB2Warden Aur Railenad SI	Ladgewilk, WI	Reek	5/5/2005					AECOM (STS)	Hagden	Dill Saballa Janel Kanda
Tissig Oil Dalk Plast	Tinaly Oil Palk Plant	Tiania Oil Palk Pil	12-53-00111	Wissessie Crairal LIA				S15 H. Huis SI	Sheldon, WI Medford	Tagler	4/25/2005	252				Kee	Hagden Hagden	DCOM
Hereak Station	Fas Valley Westers	Pas Valley BWeslas-Hereak Station	82-21-138834	Fas Valley &Wesleys Lid				Garfield SI	Henneka, WI	Winnebage	1/25/2005	292	224	Steastaral Impediment - DR		22	33	Jennie Easterly
Deperce & 416	WCL	WCL	12-71-00502	Wissessie Cratral Lld				SW Car DePere & 416 Sta	Henneka, WI	Winnebage	1/12/2014	235				22	22	Jennie Kanleely
Hermah Rail Yard Farmer AST	Winnenin Central LIA	Canadian Halinnal Hermah Yard	82-74-545455	Canadian Halinnal	х		2	1185 Henry SI	Hereak, WI	Winnebays	\$/28/288	252, 255	222	Direct Contact - Aughalt	Spring Annually	AECOH (STS)	Hagden	DCOH
HA (\$12 Fire) \$1	Winnenin Central Limited Property	Winnenia Central Limited Property	82-74-545574	Canadian Halinnal				112 Pirel Si	Hermak, WI	Winnebage	7/5/2887	252	222	Industrial Une		AECOH (STS)	Planer	Jeanifee Darahi
Hernah Lummalian Area	Wissessie Central Ltd	Wie Central-Hereak Railgard & Recordbeaue	82-74-285876	Wissessie Central LIM	x		1	Henry Steerl - 488 Plank	Hereak, WI	Winnebage	11/25/2882						22	Jeanifee Darahi
Oakkask Raadkasar	Canadian Halinnal	Pau Valley BWealers - Oakkask Station	82-74-498988	Fan Valley BWenleen/Anial	X		2	Pisserr SI	Outback,WI	Winnehage	2/5/2000			Indestrial & Cap Haistenaner	Asseelly	AECOM ISTS	22	Kalky Sylarater
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Saill Sile 87	Wissessie Creteral Ltd	Winnensie Crebral Lld-Railgard	13-72-881832	Canadian Halinnal			2	1885, Yier SI.	Harakfield, WI	Weed	11/5/2007	232.235				22	Sagal	Ten Heindab
Parare UST Saill Sile	Wissessie Cretral LId	wet	85-72-881851	Wissessie Cratral Ltd				284W.1-151	Harakfield, WI	W	18/5/2887					22	22	DCOM
Wissessie Rapide Recodlesses	Wissessie Cratral LldWissessie Rapids RHDR	Geren Bay BWenleen RR Runndhaune	12-72-100010	Anisley International	х			1588 H. fal Slevel	Wissessie Rapids, W	Waad	\$/2/2849	292,295	254	Well Abandanased		AECOH	Hagden	Tam Haindah
WI Control Engine Hunne Sile Parmer	Winnenie Central LId	dille - Sile Hame	82-72-445758	HA	х			Harrises SI & 716 Aur	Wissessie Rapide, W		4/25/2884					22	22	DCOH
Girar Oil Praperly CYOC Release	Girar Oil Praprels CYOC Release	Deep Raak Oil	82-72-185516	Wissessie Central Ltd			2	Raileaad SI	Wissessie Rapids, W		5/47/2006	296				AECOH (STS)	Hagden	Tee Heindab
Girar Oil - Parare Deep Rask Balk	Girar Oil - Farmer Deep Rask Dalk	Deep Raak Oil	13-72-00050	Wissessie Central LIM			2	Raileaad SI	Wissessie Rapids, W	Weed	5/17/2008	252				AECOH (STS)	Hagden	Tee Heindah
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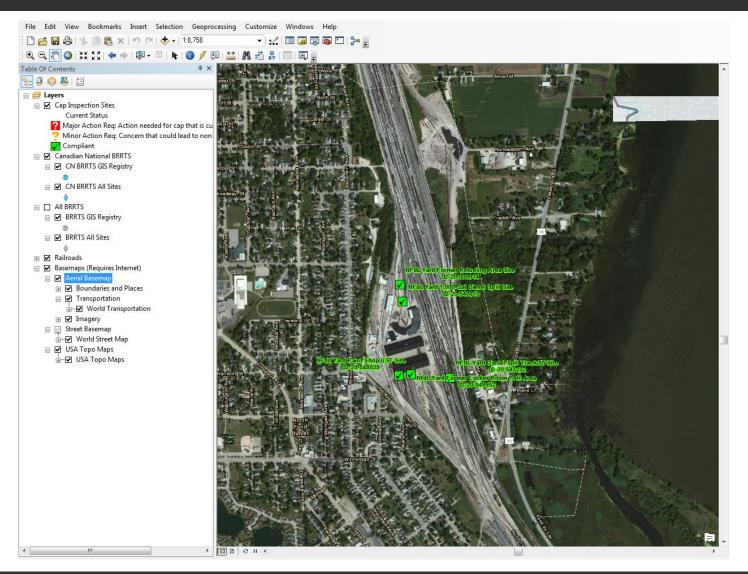




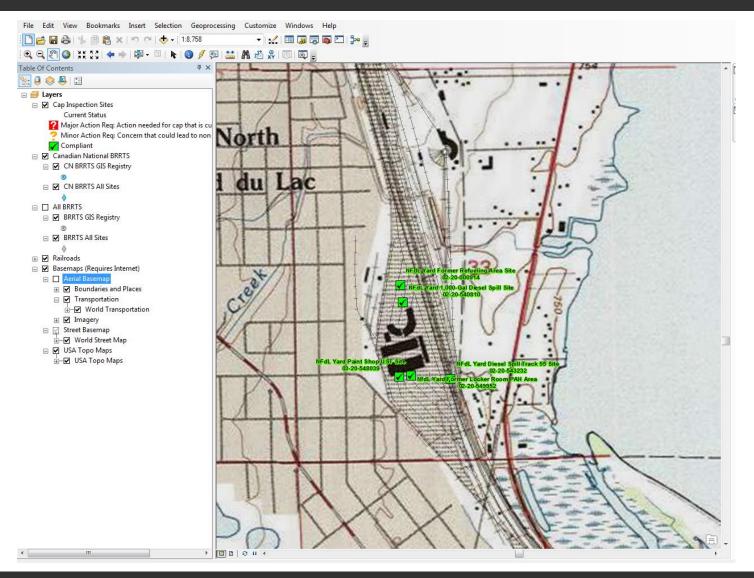


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File       Edit       View       Bookmarks       Insert       Selection       Geoprocessing       Customize       Wir         Image: Selection       Image: Selection <td< td=""><td colspan="7"><ul> <li>C in dnr.wi.gov/botw/GetActivityDetail.do?adn=0220549952&amp;siteId=1257000&amp;crumb=1&amp;search=b</li> <li>Cleanup has been approved at this location but some contamination remains. Due to this remaining residual contamination, one or more continuing obligations are applicable to this location (e.g., an asphalt cap or other barrier covering the contamination). For information specific to the continuing obligations at this location, read the Closure Letter within the GIS Registry Packet in the Documents section below. For general information on managing continuing obligations and residual contamination must be properly handled if disturbed.</li> </ul></td></td<>			<ul> <li>C in dnr.wi.gov/botw/GetActivityDetail.do?adn=0220549952&amp;siteId=1257000&amp;crumb=1&amp;search=b</li> <li>Cleanup has been approved at this location but some contamination remains. Due to this remaining residual contamination, one or more continuing obligations are applicable to this location (e.g., an asphalt cap or other barrier covering the contamination). For information specific to the continuing obligations at this location, read the Closure Letter within the GIS Registry Packet in the Documents section below. For general information on managing continuing obligations and residual contamination must be properly handled if disturbed.</li> </ul>						
Identify		Location Name	(Click L	ocation Name to Viev	v Location Details)	· · ·	County	WDNR Region	
Identify from: <a>  <a>  <a>  <a>  <a>    <a>    <a>    <a>    <br< td=""><td></td><td>WISCONSIN CE</td><td>NTRAL</td><td>LTD</td><td></td><td></td><td>FOND DU LAC</td><td></td></br<></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></br></a></a></a></a>		WISCONSIN CE	NTRAL	LTD			FOND DU LAC		
Cap Inspection Sites		Address					Municipality		
	Area	2 HARRISON ST					NORTH FOND		
		Public Land Sur	vey Sys	stem		Latitude	Google Maps	RR Sites Map	
		SE 1/4 of the SW	1/4 of \$	Sec 33, T16N, R17	/E	43.809495	CLICK TO VIEW	CLICK TO VIEW	
		Additional Loca	tion De	scription		Longitude	Facility ID	Size (Acres	
		NONE				-88.4779039	420092420	>100 Acres	
		Jurisdiction		PECFA No.	EPA Cerclis ID		End Date	Last Action	
		DNR RR			Character	2007-06-18	2012-10-08	2012-10-11	
Location: 88°28'40.451"W 43°48'34.1	61"N	PECFA	EPA NPL	Eligible for	Above Ground		Co-	On GIS	
Field	Value	Tracked?	NPL Site?	PECFA Funds?	Storage Tank?	Drycleaner?	Contamination		
	NfdL Yard Former Locker Room PAH Area	No	No	No	No	No	No	Yes	
	Wisconsin Central RR				Action				
BRRTS ID	02-20-549952				ace Cursor Over Code				
Responsible Party	Wisconsin Central Ltd	Date 2007-06-18	Code	Name Notification		Comment			
	2 Harrison Street	2007-06-18		Miscellaneous		ON-SITE MEETING			
	North Fond du Lac, WI	2007-08-16		RP Letter Sent		ON-OTTE WEETING			
	Fond du Lac CANADIAN NATIONAL - PAH	2007-09-11		Status Report Rec	eived	NOTIFICATION OF CO	ONSULTANT HIRE	D	
Activity Name Start Date	6/18/2007	2009-01-20		Miscellaneous		STATUS UPDATE RE			
	ERP dosed				- 1	UPDATE STATUS - W		LOSURE	
	Pavement and sand and gravel	2009-02-04	43	Status Report Rec	eived	SOON			
	02-20-549952 NfdL Yard Former Locker Room PAH Are	2009-09-03	710	Date Soil Registry	Fee Paid				
and a second	11/8/2013	2009-09-03		GIS Registry Site		*** AUTO POPULATE	D BY 710 ACTION	ENTRY ***	
	Dan O'Connell	2009-09-03		Closure Review R					
Current Status	Compliant	2009-09-28		Closure Not Appro	oved	BY PM, NEEDS ADDI		IPLES	
Current Recommendations	11/8/2013 - None	2010-12-15		Miscellaneous		NOTIFICATION OF C			
Previous Recommendations Implemented? Photo	NA 02-20-549952 NfdL Yard Former Locker Room PAH Are	2011-06-27		Miscellaneous	Descinden C 1	CLOSURE STATUS N		in the Cont	
	02-20-549952 NdL Yard Former Locker Room PAH Are	2011-09-08		DNR Regulatory F		Vapor Intrusion (VI) As	sessment Notifica	tion Ltr Sent	
	02-20-549952 NfdL Yard Former Locker Room PAH Are	2011-12-16		0220549952_VI_L Miscellaneous	.etter.par	WDNR PM CHANGE (			
	http://dnr.wi.gov/botw/GetActivityDetail.do?adn=022			Vilscellaneous Closure Review R	equest Received	WDINK PMICHANGE (	VIA EMAIL) (LAUI	NUSEN)	
IEPA Document 1	<null></null>	2012-07-30		(no fee required)	equest neterved				
IEPA Document 2	<null></null>	2012-08-29		Conditional Closu	re				
		2012-09-20	43	Status Report Rec	eived	MASTER CAP MAINT	ENANCE PLAN R	ECEIVED	
		2012-10-05		Conditional Closur		WASTE DISPOSAL D	OCUMENTATION	RECEIVED	
		2012 10 03		Met or Documenta		(VIA EMAIL)			
< [		2012-10-08		Continuing Obliga Contamination	tion - Residual Soil				
dentified 1 feature		2012-10-08		Activity Closed					
		2012-10-08	56		tion(s) Required -	REMAINING SOIL CO MAINTENANCE PLAN	NTAMINATION A	ND CAP	
	B 8 II <	2012-10-08	222	Continuing Obliga Over Contaminate	tion - Maintain Cap d Area	MAINTAIN EXISTING DIRECT CONTACT AI PROTECTION			
		2012-10-11	100	GIS Registry QAC	C Completed	FROTECTION			
		2012-10-11	100	GIS Registry GAG	ic completed				









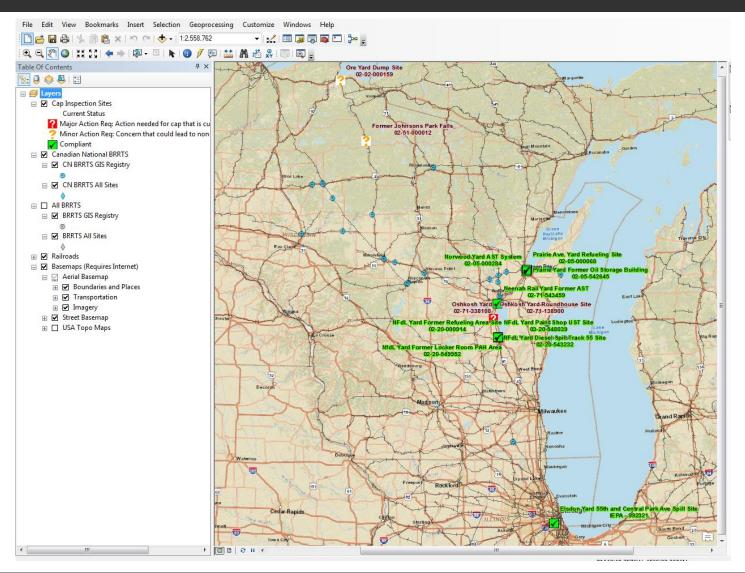


- Field Inspection consisted of 7 team members from six offices.
- Inspections were performed during spring or fall depending upon site specific requirements.
- Made observations:
  - Cap condition
  - Filled out logs
  - Took photographs.
- Identified concerns
  - Disturbed barriers and cap wear
  - Maintenance Plans not available at local offices
  - Need for warning signage









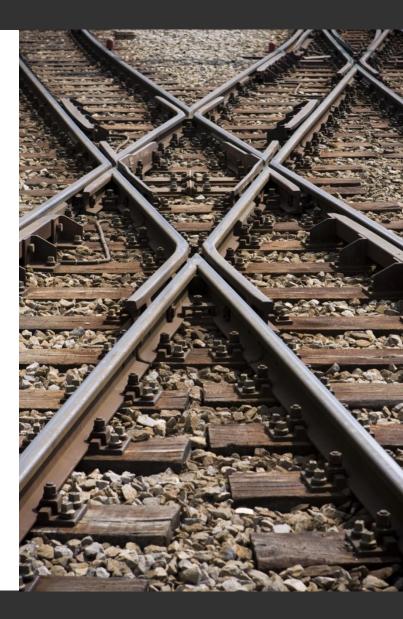






### Conclusion

- Success!!
- Instant download and forward of site information to local CN environmental staff during a surprise regulatory inspection.





# AECOM

# Thank You!



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