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Suite 1501, Northbrook Office Court 666 West Dundee Road, Northbrook, IL 60062 • (312) 498-9094

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION EPA CONTRACT 68-01-6669

Mr. Robert Bowden, Chief Spill Response Section Environmental Protection Agency 536 South Clark Street Chicago, Illinois 60605 August 24, 1984

TAT-05-F-00395

Reference: Myers' Dump Site Assessment TDD# 5-8405-14

Dear Mr. Bowden:

Please find attached the final Site Assessment report on the Myers' dump site near South Bend, Indiana. The site, as determined through an inspection and review of limited background data, appears to merit immediate removal of flammable materials and a small quantity of potentially shock-sensitive organic peroxide. Large quantities of additional waste materials are also present on the site; however, chemical information would be required prior to any removal activity.

If you have any questions or require additional information, please call.

Respectfully,

Kurt S. Stimpson Technical Assistance Team Leader, Region V

KSS:amp

Enclosure



SITE ASSESSMENT

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FOR

MYERS' DUMP OSCEOLA, INDIANA

Prepared For:

U.S. Environmental Protection Agency Region V 536 S. Clark Street Chicago, Illinois

CONTRACT NO. 68-95-0017

TAT-05-F-00380

TDD# 5-8405-14

Prepared by:

WESION-SPER Technical Assistance Team Region V

July 1984

1.0 SITE LOCATION AND HISTORY

The property known as Myers' Dump is located at 11303 Edison Road, Osceola, Indiana. It is a five acre tract of land 225 ft wide by 950 ft long in the south-central part of Section 32, T38N, R4E (Figure 1). Agricultural land borders the site on its north and east boundaries while Edison Road is south and a vacant lot is to the west. The St. Joseph's River flows 1 1/4 miles south of the property. Numerous residences are located immediately west of the vacant lot and beyond the agricultural land to the east. Population in the immediate St. Joseph County, Penn Township area is approximately 2,000.

Mr. Galen Myers purchased the Edison Road property on February 2, 1970. He and his family resided at this location until his death in June 1983. Mr. Myers operated a salvage business during these years primarily recycling 55 gallon drums in to burn barrels and rubbish containers. The drums were acquired from the local industries in nearby Elkhart, Mishawaka, and South Bend, then cleaned, deheaded and sold. Often drums of various size, origin, and hazard were delivered to the Myers' property still containing amounts of original or waste materials. It is not known what quantity of these materials were accepted over the years, or what procedures Mr. Myers' used for the handling and disposing of them. No manifests, bills of lading or receipts documenting any accepted wastes have been located. His sons have reported that many of the materials were simply dumped on the ground or staged on the property. This appears to be the case, based on information from the county and state, and field inspections conducted by the TAT.

The illegal dumping and unauthorized storage of hazardous materials at the site was first investigated by St. Joseph County Health Department personnel in June 1981 after a nearby resident had complained about the application of raw sewage to agricultural lands northeast of Myers' property. During their inspection of the agricultural land, the inspectors discovered the dumping and storage of waste on Myers' property and requested him to cease such activity. The county health department subsequently submitted a complaint to the Indiana State Board of Health (ISBH) about illegal hazardous waste activity at the site.

On April 5, 1983, Mr. Dave Koepper of the Land Pollution Control Division, ISBH, inspected the Myers' property. This inspection revealed that drummed solid and liquid wastes, some which appeared to be paint waste, were scattered over the site. A group of ten drums, of which one was stenciled "WASTE ACETONE" was identified as originating from a defunct Elkhart, Indiana, business--The Williams Company. Mr.



Koepper contacted a Mr. Bush at Leigh Products Company, parent of The Williams Company, about the drums but a positive identification could not be made (see Attachment 1). The ISBH subsequently contacted the Region V U.S. Environmental Protection Agency (U.S. EPA) Spill Response Section and requested an inspection of the site to determine if an emergency cleanup action was warranted. On June 1, 1983, Mr. Robert Bowden, Chief, Spill Response Section, directed the Technical Assistance Team (TAT) to assess the site and to develop a cleanup plan if necessary.

TAT member Geoff Watkin visited the Myers' property on June 3, 1983. Upon arrival, Mr. Watkin was informed that Galen Myers had died the previous night. Due to this and the fact that many friends and relatives were on the property, the assessment was somewhat hindered. There were many drums on the west side of the site, all of them empty and opentopped. Markings indicated that most of the barrels had contained food products. The "WASTE ACETONE" drum, reported by Mr. Koepper of ISBH, was not found, although seven unmarked drums on the east side of the property were found to contain solids. The late Mr. Myers' daughter indicated that it was her mother's intention to dispose of the drums and other collected debris on the property now that the business was to close.

Because it was the intention of the owner to clean up the property, it was recommended by TAT that the ISBH monitor activities at the Myers' and if any hazardous materials were found, that the U.S. EPA Spill Response Branch should be notified (see Attachment 2).

After no efforts were made by the surviving members of the Galen Myers' family to clean up the site, the ISBH conducted another inspection on April 24, 1984. The inspectors, Messrs. Dave Koepper and Dave Barry, found the site unchanged and were unable to contact any of the family members (Attachment 3). Based upon the apparent abandonment of the site, the ISBH again requested that it be evaluated for an emergency action (Attachment 4).

2.0 SITE ASSESSMENT

On July 14, 1984, TAT member Geoff Watkin and Mr. Art Murphy of ISBH conducted a site assessment of the Myers' property. The five acre site was thoroughly inspected and St. Joseph County Court Land Planning and Health Department files were investigated to determine the current status of the property. Based on previous TAT and ISBH inspections, the site was investigated in Level D personnel protection (Site Safety Plan, Attachment 5). The Myers' house, garage, storage

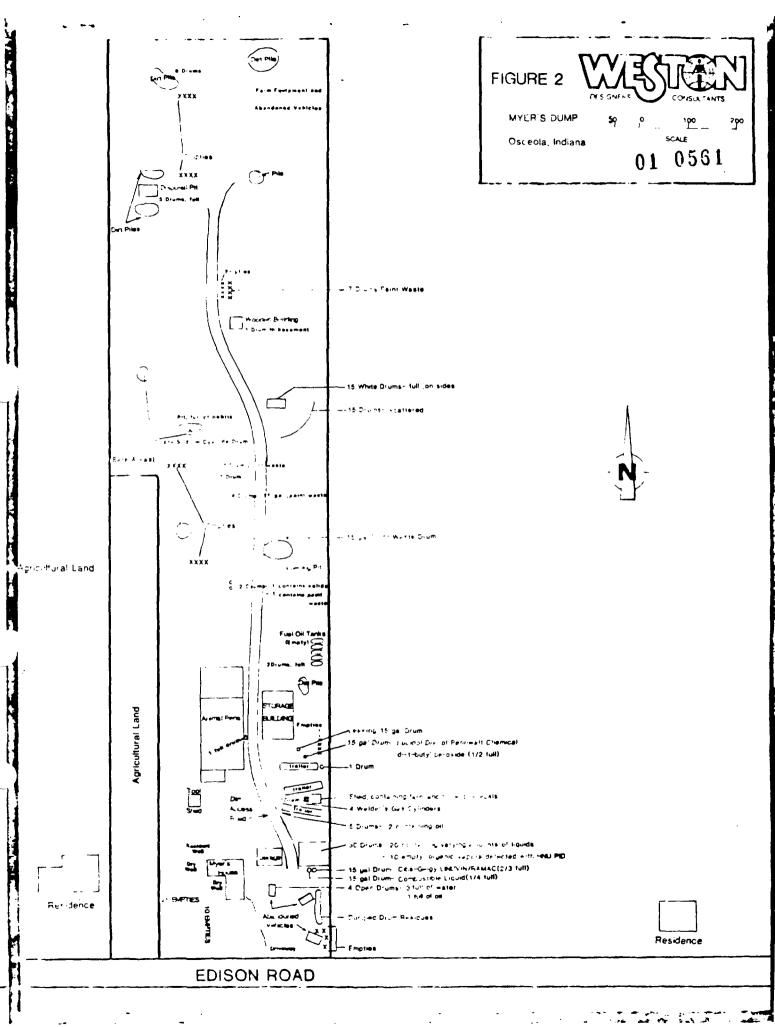


buildings, and storage trailers were locked and inaccessible during this initial assessment. Based on previous reports and site visits, the property was found to be strewn with considerably more drums than anticipated and had several areas which may have been used for waste dumping or burial.

Inspectors commenced the inspection at Edison Road and proceeded north through the site on the dirt access road (Fig-Access to the site from Edison Road was unrestricure 2). ted, though there is a three strand wire fence around the other three sides of the property. Three abandoned vehicles were in the driveway of the property as were numerous empty and full or partially full drums. One of the vehicles contained a drum full of oil and three drums of aqueous liquids. The oil drum was marked with a "MOTOR OIL" stencil and one of the other drums was marked "WINDSHIELD WIPER CONCENTRATE." Other drums, empty or containing waste, were noted along the east boundary of the property in the driveway area. Most notable of those containing materials were two 15-gallon drums against a fence at the north boundary of the driveway (Attachment 6, photograph 1-3). One was marked "CIBA--GEIGY TINUVIN RAMAC, MADE IN SWITZERLAND" and was two-thirds full (Attachment 6, photograph 4); the other was marked "COMBUS-TIBLE LIQUID" and was one-quarter full. The empties were mostly 55 gallon drums with various manufacturers' labels, such as Alcoa, 3-M, and Amoco. Black tarry residues and an aluminum paste-type substance, presumably dumped from drums during Myers' operations, were noted in various areas of the driveway.

Immediately behind a fence separating the northeast part of the driveway area from the rest of the property are approximately 30 drums, 20 of which contain varying amounts of liquids and/or sludges. The empty drums are open and in various states of deterioration. Low levels (1 to 5 ppm) of organic vapors were detected inside the drums using a calibrated photoionization detector with 10.2 ev probe and 9.8 span setting. All the drums were similar in design and color, being reddish 55-gallon drums with a center end bung and hexagonal Several of the drums that contained waste as well as pluq. empty drums had stenciled markings indicating they had originated from Anco Products of 2500 South Street. Elkhart, Indiana (the _____ represents a numbered street, probably 7th or 17th).

As shown in Figure 2, numerous drummed wastes were discovered on the Myers' property. Empty drums were also found all over the property, but are represented unproportionately on the figure due to space limitations. The drums that contain waste are most notably represented by the following:





- o Fourteen 15-gallon drums containing paint waste. Of These drums are located in various areas throughout the property and can be identified by different colors of overflow and spillage on the outside of the container. Some of these drums have labels of the Inmont Corporation, Detroit, Michigan (Attachment 6, photographs 5-8).
- o One 15-gallon drum with the label of Lucidol Division of Pennwalt Chemical. The label identifies the contents as di-t-butyl peroxide which is a flammable organic peroxide. This compound is reactive and has potential for becoming shock-sensitive. The container is in good condition and approximately two-thirds full (Attachment 6, photographs 9-10).
- o Fifteen 55-gallon drums staged on their sides in a group. These white drums, although they have no company labels on them, have similar numbering stencils on their sides and have a black tarry waste leaking from some of the bungs (Attachment 6, photograph 11). It is believed that these are the drums referred to in the ISBH memo originated by Dave Koepper on April 12, 1983 (Attachment 1). The memo places the drums' origin as from the defunct Williams Company in Elkhart, Indiana, whose parent company is Leigh Products Company of Grand Rapids, Michigan (phone: 616/942-1440, contact: Mr. Bush).
- Forty-one 55-gallon drums located throughout the property are generally unmarked and miscellaneous in nature. They contain varying quantities of unknown liquids, solids, and mixtures (Attachment 6, photographs 12-17).

In addition to the drums containing waste, many of the empty drums found throughout the site merit mention on the basis of their labels, number, or suspected past contents. An empty drum, found in the midwest section of the site, near a pit of debris, had clear manufacturer's markings identifying its past contents as 200 lbs of 97% sodium cyanide (Attachment 6, photograph 18). Approximately 10 to 15 empty drums, located just south of the cyanide drum, were all similar and labeled as "LACQUER." These drums were from Morten Chemical of Chicago, Illinois. Other empty drums, located around the site, such as those scattered near the 15 staged white drums, looked as though they had contained materials but had been dumped or had deteriorated to release their contents. Also, many of the drums considered as empty, contain some residues or solids.



The drums detailed above are those discovered during the first site assessment, but due to heavy brush, large piles of debris, and the large area of property inspected, it cannot be assumed that all drums were discovered.

Several physical features of the Myers' property suggest waste burial or dumping in pits. Dirt piles, pits and areas bare of vegetation are evident around the site and, in most cases, drums can be found in the their proximity. An apparent disposal pit in the far northwest part of the site is surrounded by dirt piles and contains both crushed drums and rubbish (Attachment 6, photograph 19). Full and empty drums are also scattered nearby. Just north of this pit, is an overgrown dirt pile which also has drums staged next to it. As discussed earlier, an empty cyanide drum was discovered adjacent to a pit full of debris in the midwest part of the site. Nearby there are bare areas in what is otherwise a very overgrown field. Finally, there is a depressed pit-type area in the mideast portion of the site, which Myers' sons claim was used to back vehicles into for loading. An inspection of the pit floor revealed a thin black layer of what appeared to be organic residuals at the surface of the soil.

After inspecting the site, Messrs. Murphy and Watkin proceeded to St. Joseph's County offices in South Bend, Indiana. They visited the Health, Land Planning, and Court divisions of local government to gather background information and determine the current status of the estate. Land Planning and Health Department personnel reported that the area was extremely sandy (Brem's fine sand) and had a ground water depth as shallow as 10 to 15'. Ground water flow is generally toward the St. Joseph's River to the south, with a slight westerly influence in the direction of the river's flow. Local water supplies around the Myers' dump are obtained from resident wells about which little is known. The St. Joseph's County Clerk's Office reported that the Galen Myers' estate was still open due to its being contested by family members but was expected to close soon. The total value, including real estate, was placed at less than \$30,000.

On June 27, 1984, Art Murphy and Geoff Watkin visited the site to gather samples and gain access to the locked buildings and trailers on site. Mr. Murphy attempted to contact Galen Myers' sons, Dwayne and Dixon, through their attorney, Mr. Phillips Skodinski, of 203 Chamber of Commerce Building, South Bend, Indiana, to obtain keys for the locks but the Myers could not be reached. However, water samples for organic analyses were obtained from five residents' wells near the Myers' property. Also, five soil samples were taken

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at various locations on the property. Mr. Murphy maintained his efforts of obtaining keys and after contacting Dwayne and **01** 0564 Dixon Myers, arranged a meeting on the site for July 13, 1984. Also attending this site visit were Mr. Jack Barnette, OSC, U.S. EPA, Region V, and Geoff Watkin and Paul Aronian of TAT. After inspecting the storage buildings and trailers, investigators were satisfied that they contained no hazardous materials. They were used primarily by Galen Myers' surviving family to store property of value, pending the decision on the estate. Inspectors again surveyed the site and discussed it in terms of the environmental hazards present and potential actions to resolve them.

3.0 THREAT TO HUMAN HEALTH AND THE ENVIRONMENT

Regulatory and environmental interest in the Myers' dump site did not begin until the last month of its operation and in the year since the death of Mr. Myers. Therefore, virtually no historical information concerning the operation of this site is available, nor is there any sampling or analytical data to provide insight into the specific materials accepted there or the extent of contamination resulting from the operation. The only sampling done on or around the site has been done by the TAT and results of the analyses were not available at the time of this writing. However, based on the several site visits by U.S. EPA personnel and contractors, the Myers' dump site was found to pose direct and indirect threats to human health and the environment. These threats include fire and/or explosion, direct human contact, and ground water drinking water contamination.

The 20 reddish-brown 55 gallon drums with liquid contents at the front of the site, the 15 white 55 gallon drums stacked on their sides, and the numerous paint waste drums found throughout the site are suspected to contain flammable materials. Some of these drums are bulged and one of the paint waste drums hissed with pressure during the July 13, 1984, site visit. Flammable and combustible liquid labels can be found on both empty and full drums throughout the site. The flammable components of paint waste are normally petroleum distillates, such as Varnish Makers and Painters (V, M and P) naptha whose flash points range between 40 and 100°F. Acetone, which has a flash point of 15°F, is also suspected in some of the wastes. Di-t-butyl peroxide, of which a 15 gallon drum was found on site, has a flash point of 65°F, is a strong oxidizer and may ignite if it comes in contact with organic materials or explode if shocked or in contact with reducing agents. Adding to the potential for fire and/or explosion is the heavily overgrown nature of the site which an accidental fire or act of vandalism could ignite.



The Myers' property, as a whole, is easily accessible from 01 0565 all directions. A three-strand wire fence surrounds the site 01on all but the front or south side. The fence is broken in some areas and is easily passable. It is an inviting property for children to play on, and Dwayne and Dixon Myers stated that they have experienced trespassers and vandals. Due to its accessibility, the potential for direct human contact with hazardous materials is high on the site. Although the specific chemicals contained in the drums, in residues on the driveway and in the materials dumped in the disposal pit are not known, the suspected contaminants would pose a toxicity threat. Solvent, heavy metal, and cyanide containing wastes are strongly suspect on the site due to the quantity of paint waste and the empty drum of pure cyanide found on site. The physical nature of the site compounds the potential for direct exposure to wastes. The open pits, irregular terrain, overgrown fields, and haphazard distribution of metal debris and drums on the site all contribute to hazards awaiting unwary trespassers and vandals.

The third human health and environmental threat posed by the Myers' dump site is the potential for contaminating ground water thus, and drinking water supplies. All homes on the Myers' site are on residence wells as was the Myers' property itself. The soil in the area of the site is extremely sandy as described in Section 2.0 and the ground water level is only 12 to 15' below the surface. As is evident from the disposal pit on the site, Mr. Myers dumped domestic garbage directly into excavated holes on his property. It is not known whether he dumped hazardous waste into these pits, but his sons claim that they routinely dumped residues onto the driveway area. Water samples have been taken of five residences along Edison Road; four of these west, and one east of the Myer's property. Results have not been received at the time of this report.

4.0 RECOMMENDED ACTIONS

From this Site Assessment, made at the Myers' dump site in Osceola, Indiana, it is apparent that hazardous chemical wastes were improperly disposed of on the property. In terms of its potential for fire and/or explosion, directly exposing humans and contaminating ground water and drinking water supplies, the site is considered to pose imminent threats to human health and the environment. Therefore, the following recommendations are made in lieu of an Emergency Action Plan:

o Classify and remove the drums on the surface of the site and dispose of them properly.



- o Conduct a sampling survey to define type and extent of soil and ground water contamination (initial activi-01 0566 ties addressing this recommendation have been implemented by the TAT who obtained five site soil grab samples and five resident well samples).
- Excavate and dispose of grossly contaminated soils as dictated by the sampling survey and/or fill in the currently open disposal pit on site.
- o If necessary, provide for monitoring of ground water downgradient from the site.

These recommendations are generalized because of the lack of information concerning the wastes Myers accepted and his operations for handling them. A high degree of hazard is recognizable and action is warranted for many of the drums on site. Particularly this would include the organic peroxide and flammable waste drums. Also, since local soils are so permeable and the drinking water supplies of nearby residents are highly vulnerable, further sampling to define any contamination in these areas should be conducted.

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ATTACHMENT ONE

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First ISBH Assessment Report

STATE BOARD OF HEALTH

INDIANAPOLIS

DFFICE MEMORANDUM

DATE:

THRU:

April 12, 1983

Williams Company RCRA File

Lee Langlotz LWF Guinn Doyleg Ag

FROM:

TO:

David Koepper OK 4/15/53 Division of Land Pollution Control

SUBJECT:

211

Improper Storage/Transport of Hazardous Waste

OD April 5, 1983, I inspected the property of Mr. Galen Myers after receiving a complaint from the St. Joseph County Health Department about illegal bazardous waste activity. The inspection revealed that Mr. Hyers collects drums (55-gallon) from local industry and sells them for trash barrels. Over the years that he has done this, he has collected several drums which contained varying amounts of solids in them. Some of these drums remain on his property seemingly full of solid materials with the appearance of solidified paint waste. These drums are scattered about the property behind his house. Hr. Hyers also has in his possession ten 55-gallon drums of waste from the now closed Williams Company in Elkhart. Hr. Hyers said that these drums contained a liquid or semi-liquid. One of the drums is stenciled "Waste Acetone." One of the drums had developed a leak from the bung (all these drums are stacked on their sides) which had solidified shut with a black tarry substance. I was unable to obtain a sample because of the prone position of the drums.

After some inquiry I found out that the parent company of the Williams Company was beadquartered in Grand Rapids. The Leigh Products Company representative I spoke to seemed somewhat reluctant to do anything about these drums without more information. His name was Hr. Bush at 616/942-1440. He is inquiring into the matter and promised to get back in touch when he finds out anything.

Hr. Galen Hyers
11303 Edison
Osceola, Indiana
219/259-5946
Leigh Products Company
Grand Rapids, Michigan

616/942-1440 Mr. Bush--Environment

Bet sure to follow on this '.

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ATTACHMENT TWO

First TAT Assessment Report

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TO: Robert Bowden

23 June 1983

FROM: Technical Assistance Team TAT-05-F-00169

VIA: Site Assessment at Meyer's Dump Osceola, Indiana TDD# 5-8306-4

On 1 June 1983 the Technical Assistance Team was requested to conduct a preliminary assessment of Meyer's Dump, 11303 Edison Rd, Osceola, Indiana. The site was first recognized for possible illegal hazardous waste activity by the St. Joseph's County Health Department who notified the Indiana State Board of Health (ISBH). On 5 April 1983, Dave Koepper, Land Pollution Division, ISBH, inspected the property and found that the owner, Mr. Galen Meyers, seemed to be illegally storing hazardous waste on his propery. Mr. Koepper found that Meyer's operation recycled used 55 gallon drums from local industry into trash barrels. Over the years, Mr. Meyer had accumulated the residual solid wastes left in the drums and he stored these at the back of his property. Koepper also reported that he found ten 55 gallon drums that contained liquid, one of which was marked "Waste Acetone".

On 3 June 1983 TAT member Geoff Watkin conducted a site assessment at the Meyer's property. Upon arrival, Mr. Watkin was informed that Galen Myer's had died the previous night. Due to this and the fact that many friends and relatives were on the property, the assessment was somewhat hindered. There were many drums on the west side of the site, all of them empty and open topped. Markings indicated that most of the barrels had contained food products. The "Waste Acetone" drum Mr. Koepper of ISBH reported was not found although seven unmarked drums on the east side of the property were found to contain solids. The late Mr. Meyer's daughter indicated that it was her mother's intention to dipose of the drums and other collected debris on the property now that the business was to close.

Because it is the intention of the owner to cleanup the property it was recommended to Dave Koepper that the ISBH monitor activities at Myers' and if any hazardous materials are found that may require special funds for removal, the USEPA Spills Response Branch should be notified.

Very truly yours, Geoff Welkin

GW/js

ATTACHMENT THREE

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Second ISBH Assessment Report

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TO: File THRU: George Oliver, Jim Hunt, Guinn Doyle

FROM: David Koepper

RE: Galen Meyers Dump St. Joseph County

On April 24, 1984, Myself and Mr. David Berrey inspected the dump at the former Galen Meyers property (now deceased). We found the site to be in the same condition as my last inspection during the fall of last year. At that time I attempted to contact Duane Meyers at the only phone number I had for him. His phone was disconnected. He was not listed in the phone book either. It is my opinion that this site should be considered abandoned until evidence is found to the contrary.

I have some evidence of the following problems at the site:

1) There are about 10 drums of what appear to be waste flammable liquids on site. These drums are lying on the ground in a prone position stacked two high. The drums are intact for the most part but are deteriorating and may not last through the summer.

2) There are several (more than 30 drums) drums scattered thoughout the property behind Mr. Meyer's former residence. These drums are mostly in a state of decay and range from empty to full. The drums containing material appear to contain only solids (they could of contained liquids before they rusted through).

3) Mr. Meyers son told me that they emptied drums in the driveway on a routine basis for several years before cutting out the tops and selling them for trash barrels. He indicated that the emptied material was varied and that some of it was probably of a hazardous nature.

4) There is an indication that some areas of the property were disturbed by digging. These areas could contain buried drums or other materials although I have no direct evidence of this being done.

I believe that some sort of action should be initiated to remove the drums of liquid waste before it deteriorates. The county health department has been contacted and they indicated that they would try to track the progress of the estate settlement. This could be of some help if they are successful. The other problems would appear to be appropriate for ERRIS inspections and rating. Please contact me for any additional information on this site.

ATTACHMENT FOUR

ISBH Request for Federal Evaluation

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INDIANA STATE

STATE BOARD OF HEALTH AN EQUAL OPPORTUNITY EMPLOYER



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INDIANAPOLIS

Address Reply to: Indiana State Board of Health 1330 West Michigan Street P. O. Box 1964 Indianapolis, IN 46206-1964

May 15, 1984

Mr. Bill Sanders, Director U.S. EPA, Region V Federal Emergency Response Team 230 S. Dearborn Street Chicago, Illinois 60604

Dear Mr. Sanders:

Re: Galen Meyers' Property

On April 24, 1984, Mr. David Koepper and Mr. David Berrey conducted a follow-up inspection at the former Galen Meyers' Property at 11303 Edison, Osceola, Indiana, St. Joseph County. The inspection revealed approximately 10 drums of what appears to be waste flammable liquids and more than 30 drums scattered throughout the site in various stages of decay and containing varying amounts of unidentified solid materials. Some of the solid materials have the appearance of solidified paint waste.

The State of Indiana is hereby requesting an evaluation of this site for possible emergency action to remove all drums on-site due to the potential fire, explosion, and direct contact hazards posed by the presence of this material. After the drums have been removed, the site will be placed on the ERRIS List to be investigated under the 3012 Program for possible inclusion on the National Priority List.

Please direct any questions concerning this matter to Ms. Sherry Evans-Carmichael at AC 317/633-8546.

tra David D. Lamm. Director

Division of Land Pollution Control

Enclosures

cc: Bob Bowden, Emergency Response EPA – Sherry Evans-Carmichael, ISBH David Koepper, ISBH

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ATTACHMENT FIVE

Site Safety Plan

WESTON SPER

		~					Region Date	V 6/15/84	
				SAFET	Y PLAN		TDD#	<u>5-8405-4</u> 0 1	0576
A.	Incident	Descripti	on						
	1.	Location	Myer's I	Dump		2	2. Date	6/15/84	
			11303 Ed						
		· _	Osceola,	, Indiana					
	3.			Fire 🗾			-	ther	
	4.			property-use					
	5.			esSite as		: - inves	tigate si	te, determin	ne
	6.	Backgroun If par	d Review tial, why	: Complete y?	LXI Stat	Parti ce County	al /_/ Files		
	7.	Hazard Le Inhala	vel: Hid tion /X/		oderate		Low /y	Not well-de Unknown External / Physical	17
	8.	Site'Plan		Attached See File	Yes 🗾	7 No	<u>I</u> XI	Thysical	
	9.	Backgroun	d Materia	al attached le, also	Yes			L-t-butyl pe	roxide
B.	Material	Descripti	on						
	1.	Type: Li	quid /x/	Solid		Sludge	Ū	Vapor/Gas	\square
	2.	Chemical	Name/Clas	ss <u>Paint</u> was	stes, sus	spected p	lating wa	astes, waste	resing, tar
	_3.	Character	istics:	Corrosive	[]	Ignitab	le /	Volatile	1 <u>x</u> / al Agent <u>/</u> /
				Toxic <u>/x</u> /		Reactive	e <u>/x</u> / Peroxia		al Agent 🕖
	4.	•		<u> </u>		IDLH	<u> </u>		<u> </u>
	5.			hysical haza	-				
	6.	Acute Expo solvants w drowsiness	which may	nptomsper be present	roxide is	s powerfu se dizzin	l irritan ess, naus	nt, other or sea, euphori	ganic a

SMG:ss 11/24/82

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2. 3. 4.	Surrounding Population 2,000 in Osceola 100 in immediate area. Buildings/Homes Located on residential street with farms and homes.
•	Buildings/Homes Located on residential street with farms and homes.
4.	
	TopographyFlat
5.	Receiving Waters St. Joseph River 1 mile south.
6.	Weather Sunny, Clear
7.	Unusual Features Very sandy soil, abandoned home on site, unfenced. Debris, vehicles and barrels strewn throughout property, pits suspected of being seepage lagoons, mounds suspected of buried wastes.
8.	. Site History Owner who died in June 1983 ran burn barrel business and dumped burned wastes and fill barrels on property.

2.	If not B,	why?	Site i	s all	open	land,	drums	and	wastes	which	are s	spread
	throughout	nroper	<u>tv are</u>	exno	sed an	<u>d inve</u>	stigat	ore	did no	t hand	le mat	torials
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% O2 Radioactivity	Å	INU -		
OVA	C			
Was protective level (Up or Down graded to: Why				
Actual Change:				
Respirator Protective				
Respirator Protective	Equipment:			
Respirator Protective	Equipment: Chest Mount	Caniste	er Type Organic T ige Type	/apo:
Respirator Protective SCBA Gas Mask MSA - C Ultra Twin	Equipment: Chest Mount	Caniste	er Type Organic V	/apo1
Respirator Protective SCBA Gas Mask MSA - O Ultra Twin Dust Mask	Equipment: Chest Mount	Caniste Cartrid	er Type Organic V	/apo1
Respirator Protective SCBA Gas Mask MSA - C Ultra Twin Dust Mask Protective Clothing:	Equipment: Chest Mount	Caniste Cartrid Gloves	er Type Organic V ige Type Work Clothers	/apo1

7. Field Monitoring Equipment and Materials:

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HNU-PID	

E. Decontamination Procedures

- 1. Attach sketch showing Exclusion Zone, Contamination Reduction Zone, Support Zone and numerically labelled Decontamination Stations.
- 2. For each decontamination station note procedure and materials needed on an attachment page. Decontamination involved the removal of disposal clothing and placing in plastic trash bag.

F. General Information

	1.	Team members				
		G. Watkin		•		
		A. Murphy - ISBH				
	2.	Site Safety Coordinator	G. Watkin			
G. <u>Em</u>	ergeno	y Information				
	1.	Have nearby people been If yes ever how large a	evacuated: n area	Yes 🗾	No <u>X</u>	
	2.	First Aid Instructions				
	3.	Sources of help				
		N.	Name	Town	Phone	Notif: Yes
		Fire Police Ambulance Hospital Poison information Airport Heliport				

Site Telephone Nearest Telephone

4. Emergency Telephone Numbers

WESTON Hot Line WESTON NPO P. B. Lederman - NPM S. M. Gertz - HSO Medical Emergency EPA - ERT Emergency Chemtrec Central Disease Control National Pesticide Medical Emergency

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215-524-1925 or 1926 215-431-0797 or 0798 or 692-3030

513-421-3063 (National Service) 201-321-6660 800-424-9300 404-329-3311 (day) 404-329-3644 (night) 800-845-7633

(Regional Service)

Prepared by Date

G. WATKIN 6/15/84

Approved by Date

(For HSO Use Only)

Reviewed and Comments								
Action Required?	Yes /_/	No /_/	If yes, what action					
Followup.carried ou	ut? Date							

S. O. Signature

Date

ACID

1. Syn. paraperiodic acid. White delials. HIO: 2H₂O, mw. 228.0, mp^{-122^o}, £ 140°.

I r to skin, eyes and mu mem. See also

Mod, by chemical reaction; an oxidiz-Volent reaction with dimethyl sulfox-

rd. Dangerous; when heated to decomp-, toxic fumes of iodides, reacts Master-ucing materials.

e polyvinyl pyrrolidie

2 TE OF PULASH

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AL. Composition composition from nC` d cal

E _____iny are strong oudshing against manganese contract ids.

Mod, by chemical reaction with reduce

is rel. Mind, while she do have exposed lver permangar on an' off it metall's ates may deton the while exposed to high. n they are involud to fires or severaly ncy should be stated in a cool, ventilated from acute fire horards and easily oxire s. They may be disposed of by disiter Practically all permanentation

water React violently with ace is acid, $d = de_1 (H_1 SO_1 + C_2 H_2) [79]$

u gero s shuch or heat may ex-, the can read vigor of on contact nø eria's

I ACID. In solution and HMECL

mangarese composition and person notable > 31. Explosition of composition with Ikanes, aryl hydrol of a group source alkyl antines and a source of CCF 1 methanic door of 126

V. CHLORIDE.

H. Sc. 7, anganese complete 11 d. Mod, when exposed to heat at Differences, when heated to decomply tool, furies of chlorid s, will react el aleany to produce to kicland corres ve

* LEVELS OF RADIATION. Sc. S.

For Counter score different march Are

PERMISSIBLE RADIONUCHIDE COSCENERS TIONS IN AIR AND WATER ABO SENATUR M BACKGROUND. See Section 5 V

- **PERMONO SULFURIC ACi** \rightarrow Sym Carely acid H SO₅, mw: 114.1.
 - THP = HIGH corroside, toole in stellar. Set sufferie avail. It reacts viole it just in our or just of the parton, MhO, organic methy, Pt, Ag [19].

PERNAM BUCO. See brazili w 11

PERONINE. Syn morphics ben d ether h, drachbar ride. White, prismatic, crystalla 2, odorless powder, bitter taste C1-H: NO(OH)OC-H- HCl, mw 411.9. THR - HIGH via oral route A habit-forming drug

Narcotic and analgesic.

Disaster Hazard: Dangerous; when heated to decomp, emits highly toxic fumes

PEROXIDES, INORGAMC.

- THR = Variable They may cause injury on contact with skin or mu mem. See also hydrogen peroxide. Fire Hazard: Mod to dangerous, by chemical reaction with reducing agents and contaminants, strong
- oxidizing agents; contact with moisture may produce niu-1 heat. See also hydrogen peroxide and sodium perovide.
- Explosion Hazard: Mod. heat, shock or catalysts can cause violent decomp. Contact with reducing agents may give rise to explore they violent reactions.
- Disaster Hazard: Dang the schools, heat or moisture may cause explosion, reacts with reducing agents.

PEROAIDES, ORGANIC.

- THR These materials are irr to the skin, eves and mu n. n.
- Fire Haven's Dangerous, by chemical reaction with reducing agents or exposure to host. They are powerful inducers
- Explosion Honord Section when show the explosion heat is by sport of an interaction. Many period is are very a stable, Up in the structure during a terie' sull as on the matter, the surveys, [19] an explanation of the second
- $D_{n,0} = \left(\begin{array}{c} 1 \\ P_{n,0} \\ \end{array} \right) = \left(\begin{array}{c} 1 \\ D_{n,0} \\ \end{array} \right) = \left(\begin{array}{c} 1 \\ S^{n,0} \\ \end{array} \right) = \left(\left$ plast the second with a design of

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Fe. 11 · · · · · Deve to -PERONNEL Sec., PERGAY, ma Pat $\mathbf{TH}\mathbf{R} = \mathbf{V}$ PCF C : PERSIMA THE = V"PERSISTE S PERSEIT PERSPECT PERIO r., ' PEREMAN PERVIENE **PESTICIDE** FOR PESTOX: SU PETASITES JAP Toh. $THR = An \otimes$ PETN. See pept "PETRONOT -4 "PETROHOL" M PETROL. S. PETROLATENE nine + e 1 atinous e 11 - 1 sol in chi ver, Ngala 0.889 (57) IHR 11 in the second fo 🙏 👘 p. . . . $\Lambda_{P} = c_{A} c_{A} c_{A} c_{A}$ Ti w 11. PETER STAT . • PLOP · • ' 1. 11. 10 1.67 1.51 1'i PERP te 1.

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agent May explore when should on in contact with reducing materials Use High timps ture poly anization catalyst for vinyl and polyceter sins. Shipming in guidations. There less ong too, it mid, mains that if you have to be (At a National of the

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ince (as Sn) 0.1 mg per cubic omen of air

di tert-batyl & selfade ((CH), SSC(CH))

Proporties Frank (CH) SSC(CH) Proporties Frank (CH) SSC(CH) range 375 405 Frank (CH) (400 CF) frash point 100 Frank (CH) Combustible Use Inform fractional and jet fuel additive, lubn-

cant additive.

n-dibutyl ether. See hutyl ether.

dibutyl femarate (C. H.)OOCCB_CHCOO(C. B.).

COMBESTIME STORIES

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Herard Toxic by ingistion and inhalation, strong skin i ant

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direct by peroxide (tere' syle; reside Di BP) ar P = (CODC(CH)).

Program Clear, water-white liquid Sp. g. 0.791 (25.25) (L. fp. -40°C, b.p. 111 C refactive index (1.889 (20.C), flash point 65°F (clesed cap) Soluble in styrene, ketones, most aliphatic and atomatic hydroxactions, insoluble in water.

Hazard Moderately toxic. Flammable, dangerous fire hazard Strong oxidizing agent, may ignite orgame materials or explode when shocked or in confact with reducing materials.

Uses: Polymerization catalyst for resins, including olefins, styrene, styrenated alkyds, and silicones; ignition accelerator for diesel fuel, organic synthesis; interniediate.

Shipping regulations: Peroxides, organic, liquid, n.o.s. (Rail) Yellow label. (Air) Not acceptable.

2.4-discributylphenol [(CH.)-C]-C.H.OH.

 $\begin{array}{l} P_{1,0}p_{1,0}r_{1,0}r_{2,0}r_$ other, very slightly soluble in water. Combustible

Hazard, May be toxic, Sec phenol, Usex Informediate, antioxidant, stabilition, germicide

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DI-(p-tert-BUT PU PHENYL)MONOPHENDS P. OCTHATE 553 131. mw. 314.8. Disters-BUTYE PERONIDE: Creation white high uid (C.F. Or., may 14/62, n., - 40), bp 80, @ 254 min Provide 1511 (OF), d. 074 ven press 19.51 2 k2 [7] med the set of sur rj competer As Acid the data p ED (cat to 321) and kg [3] 1 tor flatt. HERE MODULA in ports, Powerful recommendant a dito decomp interim the An export need [3]. es, emits highly Fire Hore 1 See percenden on inford agencies vientous's with FX758 n.H. 2 So period to org. Sc Disastri Hazini Sel peroxili - organia To Fight First Watter may not well CH:(SO C.H.):. DI-sec-BUTYL PHENOL. Amber liquid (CH:CHC:H.):C.H.OH. mw 206.3. bp: 152--165-2: dir decomp, @ 25 mm, fp. = 50°, tlash p: 280° F, d: 0.936 @ 25° 4°. , will re-Acute tox data: Oral LDs₀ (rat) = 1320 mg/kg. [3] - and cor-THR = MOD via oral route. Fire Hazard: Slight, when exposed to heat or flame; slorless liquid. can react with oxidizing materials Ic hol and ether. To Fight Fire: Foam, CO₂, dry chemical, N nw: 143.3. d: 2,4-DI-tert-BUTYL PHENOL. Tan crystals. i: -62², flash p: HOC-H (C.H.); mw: 206.3, mp. 51°, bp. 260.8°, flash p: 265°E. d: 0.907 @ 60° 4°, vap. press: 1 5 mg kg. inhal mm @ 84.5 . ni, derma¹ | D . Acute to v data in $1 D_{co}$ (mouse) = 25 mg kg. [3] THR HIGH via ip route. r tes: HIGH da Fire Harrish Slight, when exposed to heat or flame. Violent reaction with HNOS [19] to heat or flame Disaster He and Mod dangerous: when heated to de-E' OL. Sec dicompliant's toxic fumes can react with oxidizing materia's A 158 3 To Fight Fire Foals, CO, dry climical, 12 · 12 1 - 14 NN/DE BUISE PRENTEN DIAMINE. p (+) car. [3 23] Like C. C.B. CHNHS Rev Hasters (2004) mp 17.8 [] OLCHON Half - 255 E 1000) d (194 195 g 245 24). Autor to fina Coal IID (rator 200 mg kg inhal <u>†</u> for each of the base derm of D. 11 13.1 • • N. S. Syle and the second state of Ne mi 3937. bp $\mathbf{1}_{12}$ · 15 198 ۱. · · · · · **(** ... 计可以 人名法法尔 J. $f_{1,2}$. Ł the high his line line ł 202 3 my 30 1. 2 14) 89-10 A $\mathbf{D}^{\mathbf{i}}$ Ł. т.р., a 1 1 to East or R. . . . 275 . . . 1.52 $F_1 > H$. • .

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ATTACHMENT SIX

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Photographs



 Driveway area showing waste drums next to east property boundary and abandoned vehicles.



2-3. Front area of property just north of driveway. CIBA GEIGY and combustible liquid drums are to right of tank in center of photograph. 20 to 30 drums are behind fence.

- - 4. CIBA-GEIGY drum labeled TINUVIN 292 RAMAC 01825 located in north part of drive. Way area, next to fence

5. Paint waste drums located just southwest and across access road from wooden building.

6. Paint waste drums located just northwest of wooden building.

 Closeup of paint waste drum in area just northwest of wooden building. Drum has "Inmont Corporation, Detro MI" markings.

8. Another closeup of drum in area just northwest of wooden building. Note: "lacquer thinning compound" and "flammable liquid" labels.

- Drum located between trailer and large storage building with Pennwalt - Lucidol markings identifying it as di-t-butyl peroxide.

 Closeup of di-t-butyl peroxide drum. Note: "flammable liquid" and "organic peroxide" labels.



proximately 15 drums suspected to contain flammable wastes. Located on east side of site just south of wooden building.



12. Deteriorated drums with residual wastes.



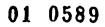
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 Drums scattered around the 15 white drums (middle background).

> 14. Waste drum labeled "Asbestos Fibre Root Coating".

15. Waste drums located behind dirt mound in extreme north part of site.

1 Historic Hill Sector Contact In the Province





16. Deteriorated waste drums scattered on site. These near disposal pit.

Waste drum with label of "The O'Brien Corp. - Paints" of South Bend, IN.

7.



18. Sodium Cyanide drum.



19. Disposal pit with drums and trash.