FORT MCCOY UST REMOVAL INVENTORY 03/30/95

	TANK		TANK	TANK		CLEAN	DNR
BLDG	CAPACITY	TANK	CONSTRUCTION	INSTALL	REMOVAL	CLOSURE	SITE ID
NUMBER	GAL	PRODUCT	INFORMATION	DATE	YEAR	YES/NO/UNK	NUMBER
659	250			10/3	1002	NO	007
1010	500	GASOLINE		- 2	1992	VES	097
1553	3 000	GASOLINE	BARE STEEL	1975	1992	NO	721
1557	340	GASOLINE	BARE STEEL	1964	1992	YES	121
1562	500	FUEL OIL	BARE STEEL	1071	1002	NO	906
1565	500	FUEL OIL	FIBERGI ASS	1977	1992	NO	905
1656	750	FUEL OIL	BARE STEEL	1972	1992	NO	900
1680	4 000	FUEL OIL	FIBERGI ASS	1972	1992	NO	1003
1849	750	FUEL OIL	BARE STEEL	1943	1992	NO	895
1853	750	FUEL OIL	BARE STEEL	1943	1992	VES	896
2197	500	FUEL OIL		1977	1992	YES	904
2204	1 000	FUEL OIL	BARE STEEL	1943	1992	YES	004
2541	1,000	FUEL OIL	BARE STEEL	1946	1992	YES	892
2569	1,000	FUEL OIL	BARE STEEL	1943	1992	NO	1004
2572	500	FUEL OIL	BARE STEEL	1977	1992	YES	894
2852	1 000	FUEL OIL	BARE STEEL	1961	1992	YES	004
5007	550	DIESEI	COATED STEEL?	1985	1992	YES	
5014	?	FUEL OIL	BARE STEEL	1942	1992	NO	354
5030	750	FUEL OIL	BARE STEEL	1943	1992	YES	
5030	750	FUEL OIL	BARE STEEL	1943	1992	NO	909
5040	500	FUEL OIL	BARE STEEL	1943	1992	YES	908
6062	500	DIESEL	COATED STEEL	1976	1992	YES	891
6062	500	DIESEL	COATED STEEL	1976	1992	YES	891
6062	500	DIESEL	COATED STEEL	1976	1992	YES	891
6065	500?	DIESEL	UNKNOWN	1975	1992	YES	
6250	140	DIESEL	UNKNOWN	1976	1992	YES	893
10111	12,000	FUEL OIL	BARE STEEL	1973	1992	YES	903
10137	500	DIESEL	UNKNOWN	?	1992	YES	
242	1,500	UNUSED SOLV	COATED STEEL	1977	1992	YES	
242	5,000	DIESEL	COATED STEEL	1971	1992	YES	
242	5,000	GASOLINE	COATED STEEL	1971	1992	YES	
242	10,000	FUEL OIL	COATED STEEL	1971	1993	YES	
3050	25,000	FUEL OIL	BARE STEEL	1975	1993	NO	837
3050	25,000	FUEL OIL	BARE STEEL	1975	1993	NO	837
3050	10,000	DIESEL FUEL	BARE STEEL	1975	1993	YES	
3050	1,500	FUEL OIL	FIBERGLASS	1976	1993	NO	837
3050	10,000	UNLEADED GA	BARE STEEL	1975	1993	NO	837
3050	7,500	USED ENG OIL	BARE STEEL	1975	1993	NO	837
5050	500	FUEL OIL	BARE STEEL	1943	1993	YES	
2190	12,000	UNLEADED GA	BARE STEEL	1943	1994	NO	1130
2190	1,000	DIESEL FUEL	BARE STEEL	1943	1994	NO	1130
2190	1,000	UNLEADED GA	BARE STEEL	1943	1994	NO	1130
2190	12,000	DIESEL FUEL	BARE STEEL	1943	1994	NO	1130
2190	12,000	UNLEADED GA	BARE STEEL	1943	1994	NO	1130
1553	14,000	UNLEADED GA	BARE STEEL	1965	1994	NO	721

FORT MCCOY UST REMOVAL INVENTORY 03/30/95

BLDG NUMBER	TANK CAPACITY GAL	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	REMOVAL YEAR	CLEAN CLOSURE YES/NO/UNH	DNR SITE ID NUMBER
1553	8,000	UNLEADED GA	COATED STEEL	1965	1994	NO	721
2177	1,000	LEADED GAS	BARE STEEL	UNK	1994	YES	

FORT MCCOY UST REMOVAL INVENTORY 03/30/95

	TANK		TANK	TANK		CLEAN	DNR
BLDG	CAPACITY	TANK	CONSTRUCTION	INSTALL	REMOVAL	CLOSURE	SITE ID
NUMBER	GAL	PRODUCT	INFORMATION	DATE	YEAR	YES/NO/UNK	NUMBER
2114	860	FUEL OIL	BARE STEEL	1947	1978	UNK	
1754	1,500	FUEL OIL	COATED STEEL	1972	1986	UNK	
106	1,500	FUEL OIL	BARE STEEL	1943	1989	YES	
-108	750	FUEL OIL	BARE STEEL	1943	1989	YES	
1266	12,000	WASTE OIL	BARE STEEL	1943	1989	NO	298
1266	12,000	WASTE OIL	BARE STEEL	1943	1989	NO	298
1358	12,000	GASOLINE	BARE STEEL	1943	1989	NO	299
1467	12,000	DIESEL	BARE STEEL	1943	1989	NO	300
1467	12,000	DIESEL	BARE STEEL	1943	1989	NO	300
-1550	750	FUEL OIL	BARE STEEL	1943	1989	NO	305
1550	750	FUEL OIL	BARE STEEL	1943	1989	NO	305
1554	12,000	FUEL OIL	BARE STEEL	1943	1989	NO	301
1658	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES	
1661	4.000	WASTE OIL	FIBERGLASS	1978	1989	YES	
1668	1.650	FUEL OIL	FIBERGLASS	1977	1989	NO	306
1668	1.650	FUEL OIL	FIBERGLASS	1977	1989	NO	306
-1669	12.000	GASOLINE	BARE STEEL	1943	1989	NO	302
-1669	12,000	DIESEL	BARE STEEL	1943	1989	NO	302
1857	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES	
1859	4 000	WASTE OIL	FIBERGLASS	1978	1989	YES	
1862	4 000	WASTE OIL	FIBERGI ASS	1978	1989	YES	
1879	12 000	GASOLINE	BARE STEEL	1943	1989	NO	303
- 1879	12,000	GASOLINE	BARE STEEL	1943	1989	NO	303
1938	860	FUEL OIL	BARE STEEL	1951	1989	YES	000
-2011	4 000	WASTEOU	EIRERGI ASS	1978	1989	YES	304
2011	750		2	2	1989	YES	004
2010	2,000	GASOLINE	2	2	1989	YES	
2110	2,000	ELIEL OIL	BARE STEEL	1947	1989	YES	
2113	4,000		BADE STEEL	10/3	1989	VES	
2190	4,000	DIESEI	DARE STEEL	1040	1000	VES	
2190	750	DIESEL	DARE SIEEL	1043	1909	VES	
2190	1000	DIESEL	EIDEDCI ASS	1943	1909	VES	
2773	4,000	WASTE UIL		1970	1909	VES	
6062	1,000	FUEL OIL	COATED STEEL	19/0	1909	VES	
	500	FUEL OIL	BARE STEEL	1943	1989	TES NO	254
5014	250	GASOLINE	BARE STEEL	1942	1990	NO	304
457	750	FUEL OIL	BARE STEEL	1943	1991	NO	440
1152	1,500	GASOLINE	BARE STEEL	1970	1991	YES	1000
1152	1,000	DIESEL	BARESTEEL	1970	1991	NO	1002
1409	4,000	FUEL OIL	FIBERGLASS	1978	1991	YES	704
1553	1,000	FUEL OIL	BARE STEEL	1943	1991	NO	721
1669	1,000	SOLVENT	BARE STEEL	1943	1991	YES	
1669	1,000	KEROSENE	BARE STEEL	1943	1991	YES	
2321	12,000	FUEL OIL	BARE STEEL	1943	1991	YES	
2846	1,500	FUEL OIL	BARE STEEL	1958	1991	YES	
105	750	FUEL OIL	BARE STEEL	1943	1992	YES	902

SITE ASSESSMENT REPORT FOR UNDERGROUND STORAGE TANK

11-24-92

FORT McCOY TOMAH, WISCONSIN Bldg. #10137

OGT I 9 1993

PREPARED FOR:

J&D ENTERPRISES, INC. 5197 LAVAQUE ROAD, DULUTH, MINNESOTA 55803

PREPARED BY:

REMEDIATION SERVICES, INC. 102 SOUTH 29TH AVENUE WEST, SUITE 100, DULUTH, MINNESOTA 55806 (218) 722-6013

JULY 9, 1993



 102 S 29th Ave W, Suite 100 • Duluth, Minnesota 55806

 Phone: (218) 722-6013
 Fax: (218) 722-6319

July 9, 1993

Ms. Rani Douville J&D Enterprises, Inc. 5197 LaVaque Road Duluth, Minnesota 55803

RE: Site Assessment Report for Underground Storage Tank Fort McCoy Military Reservation

Dear Ms. Douville:

Remediation Services, Inc. (RSI) has completed its services for the above-mentioned project. The scope of the project was to gather and interpret information obtained during the removal of twenty-nine UST systems from the above mentioned site.

Based on the laboratory analytical results of soils collected from the basin of the excavations, and the Document entitled *Site Assessment for Underground Storage Tanks Technical Guidance* (WD R PUBL-SW-175-92), it is the opinion of RSI that further environmental investigation of the soils and/or groundwater surrounding seven of these tanks is not needed, and can be classified as "Clean Closures". This report will serve to summarize information obtained during the closure of these tanks. A report summarizing the findings during the removal of the other twenty-two (22) USTs will follow under a separate cover within the next two weeks.

A copy of this report should be sent to the D R's central office in Madison. Please contact (608) 266-2111 for submittal information.

If you have any questions concerning this or any other aspect of the project, please call me at (218) 722-6013.

Sincerely,

REMEDIATION SERVICES, INC.

RÖBERT J. MASLOWSKI Project Manager

RJM:lmr

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Figure 1 Fort McCoy Site Map

Appendix A UST Program Profile Sheets Wisconsin DNR Manifest Forms

Appendix B Individual Site Information (photos, figures, etc.)

SITE BACKGROUND INFORMATION

The scope of this project was to perform site assessments during the removal of twenty-nine (29) underground storage tank systems (UST), all of which were owned and operated by the United States Army (Table 1). The site of this project, known as the Fort McCoy Military Reservation is located between Sparta and Tomah, on Highway 21. The Fort itself encompasses approximately 60,000 acres.

The underground storage tanks (UST's) involved were used in several different capacities. The majority of the tanks (18) were used to store fuel oil used to heat occupied buildings. Eight tanks contained diesel fuel to power the backup generators or water pumping systems, and three of the tanks contained gasoline (two for backup systems, one for vehicle refueling).

The tanks ranged in age from 5 to 50 years according to information provided by the Federal Government. All of the product feed lines had been separated from the furnace or pump motors by Government personnel prior to the tank removal.

The site has been a military installation since the early 1940's. Prior to that, it was used for agricultural purposes. The Fort has provided basic military training as well as heavy weapons and specialized training. These activities have caused numerous releases of a wide range of substances. The Wisconsin Department of Natural Resources (WDNR) LUST (Leaking Underground Storage Tank) computerized tracking system has recorded 11 petroleum contaminated sites within the Fort boundary and also ranks the entire Fort McCoy property as a high priority site (Table 2).

Of the twenty-nine underground storage tank systems which were scheduled for site assessments, only seven can be identified as clean sites as determined by field analysis and confirmed through laboratory testing. As a result, only these seven sites will be addressed in this report (Table 3).

Existing UST's scheduled for removal are listed in Table 4.

UST systems installed from 1990 through 1992 are listed in Table 5. These systems conform to all spill containment and overfill protection requirements established to this date.

CONTRACTOR INFORMATION

Site assessment services for this project were provided by RSI (William Donovan-DILHR Certification #00101). Laboratory analytical services were provided by SERCO Laboratories, Inc. of St. Paul, Minnesota. J&D Enterprises, Inc. (J&D), of Duluth, Minnesota was the General Contractor for the project as well as the certified tank removal/tank cleaning contractor. The DILHR certified representative for J&D Enterprises was Mark McKinnon (#00305). A list of all contractors involved in this project will be provided upon request.

Mr. James Daniels, a UST/AST inspector for the DILHR visited the site on November 19, 1992 to observe the tank removal process and to ensure that only those persons certified by the State of Wisconsin were performing the required duties and that regulations were adhered to.

Persons representing Fort McCoy for this project are as follows:

Maureen Storandt, Contracting Officer, Building 2103 Donald Schonasky, Project Inspector, Building 2111 Kurt Brownell, Environmental Department, Building 2160

GEOLOGY

Bedrock geology at this site consists of Precambrian igneous rock underlying numerous Cambrian age sandstone formations. The surficial geology of the area consists of stratified sands from glacial outwash along with the remains of the eroded bedrock.

Fort McCoy Military Reservation lies in a section of Wisconsin known as the driftless area. This area escaped the erosional destruction of the glacial ice flows only to be dissected by numerous rivers and streams from the melting glacial ice. The Fort itself lies in the LaCrosse River valley.

A surface layer of grayish brown or black fine sands (depending on organic matter content) can be found throughout the county at varying thicknesses. Generally this is underlain by a loose, brownish yellow to light yellow fine sand to depths of 2' to 8' or greater. The excavations did not exceed this depth.

HYDROGEOLOGY

Depth to groundwater varies throughout the site, however, it is generally found within twenty feet of the surface and in many cases it can be found within four to six feet.

TANK ACTIVITIES AND EXCAVATION

Individual sites will be discussed in greater detail later in this report.

TANK CLEANING AND DISPOSAL

Prior to the removal of the tanks from the basin, the interior atmosphere of each tank was measured with an explosimeter. If the readings indicated that a tank was unsafe to remove, the tank was purged of petroleum vapors with liquid nitrogen.

Once the tanks were removed from the basin and placed on level ground, a 3 foot diameter hole was cut in one end. This allowed access to the

interior of the tank for the removal of any remaining residual product. The interior was then wiped dry with petroleum absorbent pads. All residual tank contents as well as cleaning materials were placed in 55 gallon drums for disposal. The cleaned tanks were transported by J&D on a flatbed trailer to a staging area where they were cut into scrap. The final scrap metal was transported to a storage area (DRMO) to await disposal. This area is maintained by Fort McCoy personnel.

Surplus Product Management

All usable product removed from the tanks was transported to J&D headquarters in Duluth, Minnesota.

Tank Sludge Management

Since two types of petroleum products were involved in this project, the tank bottoms were categorized as either diesel or gasoline, and the like products were combined. Approximately 30 gallons of gasoline tank sludge was disposed of at Waste Research & Reclamation (WR&R) in Eau Claire, Wisconsin. The diesel fuel tank sludge was combined with the heating oil sludge and the entire 275 gallons was disposed of at WR&R also. A copy of the UST Program Profile Sheets and Wisconsin DNR Manifest forms for the tank bottoms has been provided by J&D Enterprises, Inc. (Appendix A).

INDIVIDUAL TANK INFORMATION

Following is a brief narrative describing individual site characteristics, UST system conditions and soil vapor results. Photographs, figures, lab reports, tank inventory forms and soil sample collection procedures can be found in Appendix B.

Building No. 5007

This site is used primarily as a water supply building which houses a well and pump. This site lies in an open grassy area adjacent to a large open vehicle storage area. Topography is level with no surface water features in the vicinity.

A 1000 gallon coated steel UST was installed in 1985 to power a backup pump for the well. Recently a switch was made to propane. The tank appeared in excellent condition with the sacrificial anodes still intact. All piping was tight with no evidence of leakage. The tank was perched on a concrete slab and secured with two metal straps. This concrete slab was removed to facilitate soil sampling.

Four soil samples were collected and field-analyzed with a portable photoionization detector (MicroTIP Model MP-1000). One sample was collected from beneath each end of the tank and one from each sidewall. All four samples showed no detection of petroleum vapors.

Two laboratory samples were collected from beneath each end of the tank as required by ILHR-10 and DNR PUBL-SW-175-92. These samples were tested for Diesel Range Organics (DRO) using the Wisconsin Modified method. Results of the analysis show no detection above the laboratory detection limits.

Weather conditions were sunny and calm with temperature in the 40's.

Groundwater was not encountered during this excavation.

Soils encountered at this site consisted of a thin layer (< 6") of organic material overlying grayish brown poorly graded sands.

Soil Vapor Readings

SAMPLE #	DEPTH	SOIL TYPE	SAMPLE LOCATION	PID READING
SS-1	9'	Grey/brown sand	Basin Floor South	0.0 ppm
SS-2	9'	Grey/brown sand	Basin Floor North	0.0 ppm
SS-3	8′	Grey/brown sand	South Wall	0.0 ppm
SS-4	81	Grey/brown sand	North Wall	0.0 ppm

Laboratory Analysis

SAMPLE #	DATE COLLECTED	LOCATION	RESULT	
5007-TI-1	11/23/92	South Floor (9')	<10 ppm DRO	
5007-TI-2		North Floor (9')	<10 ppm DRO	

Building No. 1557

This site is adjacent to building number 1555 which is the main Fire Station for Fort McCoy. Building number 1557 is a well house for use by the Fire Department. A gasoline powered well pump was used for back up purposes.

Topography is mostly level however, the tank location was elevated above existing grade. The surrounding area is wooded. Weather conditions were mild with very low humidity. Temperatures were in the upper 30's.

The tank (a steel 340 gallon UST) was installed in 1954. Piping from the tank to the well house had been removed prior to the tank removal. It was apparent that due to the location of the tank, the length of the product line was approximately 6 feet and was consumed in the tank removal excavation. No above ground tank for propane or gas was noted, therefore the backup system may now be powered by natural gas.

The tank showed some signs of corrosion however no obvious holes were observed. No petroleum odors were detected as well.

Field analysis of soils showed no detection for samples collected from

the floor and two sidewalls. Laboratory samples analyzed for Gasoline Range Organics (GRO) collected from the floor of the excavation were below the analytical detection limits.

Soils encountered at this site consisted of light to dark brown sands to approximately 7' overlying white sands of unknown depth.

Groundwater was not encountered at any point in the excavation.

Soil Vapor Readings

SAMPLE	#	DEPTH	SOIL TYPE	SAMPLE LOCATION	READING
				Deale Diese Meat	0.0
55-1	•	6,	Grey sand	Basin Floor West	0.0 ppm
SS-2		6 '	Grey sand	Basin Floor East	0,0 ppm
SS-3		51	Grey sand	North Wall	0.0 ppm
SS-4		51	Grey sand	South Wall	0.0 ppm

Laboratory Analysis

SAMPLE <u>#</u>	DATE COLLECTED	LOCATION	RESULT
1557-IT-1	12/3/92	East Floor (6')	<10 ppm GRO
1557-IT-2	12/3/92	West Floor (6')	<10 ppm GRO

Building No. 2204

This site is located west of the main Fort and is known as the waste water treatment plant. Surrounding the tank location are the concrete treatment ponds. This tank was used for heating oil and was replaced by two temporary 265 gallon above ground storage tanks. Natural gas will eventually replace heating oil altogether.

Topography is level with no surface waters nearby. Weather conditions were cold with temperatures in the 30's. Light snow was observed.

A 1000 gallon steel UST was installed 1943 to store heating oil for use on site. It was found to be in fairly good condition. The short pipe run (< 6 feet of copper line) was consumed in the tank excavation. A concrete walkway lay above the tank and a portion had to be removed. No petroleum odors were noticed in the excavation.

Three soil samples were collected from the floor of the tank basin and field tested using a PID. All three samples showed no detection of petroleum vapors.

Due to the size and content of this tank, it is not Federally regulated and therefore a site assessment is not required by law. Fort McCoy has required that a minimum of one laboratory sample be collected from the floor of the excavation to confirm a clean site. This sample was tested for DRO with the results being below the laboratory detection limits. Groundwater was not encountered during the excavation.

Soils encountered at this site consisted if a thicker layer of organic material (> 8") overlying poorly graded yellow to brown sands. Sampling depth did not go beyond 8 feet.

Soil Vapor Readings

SAMPLE #	DEPTH	SOIL TYPE	SAMPLE LOCATION	READING
aa 1		T]		0.0
SS-1	7.5'	Lt brown sand	Basin Floor West	
55-2	7.5	Lt brown sand	Basin Floor East	
		LC DIGHT DUIL		

Laboratory Analysis

SAMPLE #	DATE COLLECTED	LOCATION	RESULT
2204-IT-1	12/3/92	Floor (7.5')	<10 ppm DRO

Building No. 2852

This site is in a section of the Fort which appears to be used for vehicle storage and maintenance. Topography of this area is mainly flat with class V gravel as the primary road surface. Several buildings surround the site.

A 1000 gallon steel UST was installed in 1952 to store heating oil for use on site. Natural gas had been installed previously, eliminating the need for temporary above ground tanks. The pipe trench for the copper product feed lines was consumed in the tank excavation. The tank appeared to be rusted heavily in some sections, however, no holes could be found. Piping connections were tight and no staining was observed near the pipe joints. Ambient temperature was 30 degrees Fahrenheit, with no wind, and very low humidity.

Three soil samples were collected from the floor of the excavation and field tested using a PID. These samples were collected from under each end of the tank as well as under the center. All three samples showed no detection of petroleum vapors.

Due to the size and content of this tank, it is not Federally regulated and therefore a site assessment is not required by law. Fort McCoy has authorized a minimum of one laboratory sample to be collected from the base of the excavation and analyzed to confirm a clean site. This sample was tested for DRO with the results being below the laboratory detection limits.

Groundwater was not encountered during this excavation.

Soils at this site consisted of a thin layer of organic material overlying brown sandy soils containing small amounts of organics at

depths of 7 to 8 feet.

Soil Vapor Readings

SAMPLE #	DEPTH	SOIL TYPE	SAMPLE LOCATION	READING
SS-1	9'	White sand	Basin Floor East	mqq 0.0
SS-2	9'	White sand	Basin Floor West	mqq 0.0
SS-3	9'	White sand	Mid Basin Floor	mqq 0.0

Laboratory Analysis

SAMPLE #	DATE COLLECTED	LOCATION	RESULT
2852-TI-1	11/25/92	Mid-Floor (8')	<10 ppm DRO

Building No. 5030

This site is a private living quarters for command-type personnel. It is located in the northwest corner of the reservation on the banks of the Squaw Creek. Two buildings exist on site: the house; and a detached two car garage. The distance between the buildings is 80 feet. Topography is steep sloping to the northwest down to the creek.

A 500 gallon steel UST was installed in 1943 to store heating oil for consumption on site. It's location was approximately 8 to 10 feet from the south corner of the house. The vent pipe and the fill pipe openings were both directly above the tank. Upon excavation and removal from the tank basin, the tank appeared in relatively good condition. Some pitting was observed however no holes were found. No odors were noticed and soils were not visibly discolored.

Three soil samples were collected and field tested using a PID. One sample was collected from under each end of the tank and one from under the center. The depths of these samples were approximately 7 feet. Results of the field analysis showed no detection of petroleum vapors in any of the samples.

Due to the classification of this tank as non-Federally regulated, one soil sample was collected from beneath the center of the tank to determine if a petroleum release had occurred. This sample was collected at a depth of 7 feet and was analyzed for DRO.

Groundwater was not encountered during this excavation however the local flow direction is thought to be northwest toward the Squaw creek.

Soils encountered at this site consisted of a thin organic layer (< 6 inches) overlying grayish brown sands. At a depth of 6 to 7 feet, white to yellow sands were encountered. The excavation did not progress beyond that depth.

Unusual circumstances surrounding this site involved the assumed attachment of a remote fill pipe located approximately 75 feet from the tank to be removed. Once the tank was exposed, it became evident that a second tank was present on the site which incorporated the remote fill pipe as well as a normal fill pipe directly above the tank. A remote vent pipe was found to be attached to the house which ran beneath the sidewalk. This UST system was removed at a later date and will be addressed in detail in a separate report.

Soil Vapor Readings

SAMPLE #	DEPTH	SOIL TYPE	SAMPLE LOCATION	READING
SS-1	71	Grev sand	Basin Floor East	mag 0.0
SS-2	7 ′	Yel/white sand	Basin Floor West	mqq 0.0
SS-3	7 ′	Yellow sand	Mid Basin Floor	0.0 ppm

Laboratory Analysis

SAMPLE #	DATE COLLECTED	LOCATION	RESULT
5030-TI-1	11/25/93	Mid-Floor (7')	<10 ppm DRO

Building No. 6065

This site is used as a water supply building housing a well and pump. It is located approximately several hundred feet from the main water reservoir that supplies the airport. This area is level with no nearby surface waters.

A 500 gallon steel UST was installed in 1975 to store diesel fuel to power a backup pump. It was located adjacent to the building with both the fill and vent pipes directly above the tank. No evidence of surface spillage was observed.

Three soil samples were collected from the floor of the excavation and field tested using a PID. Vapors were detected in all three samples however, the levels recorded did not exceed 10 ppm. Two soil samples were collected from under each end of the tank at a depth of 9 feet. These samples were analyzed for DRO. Results show no detection above the laboratory detection limits. Due to the classification of this tank as a Federally regulated UST, two soil samples were collected from beneath each end of the tank as required by ILHR-10.

Soils encountered at this site consisted of an thin layer of organic material overlying grey to white medium sands.

Groundwater was not encountered during the excavation.

SITE ASSESSMENT REPORT FOR UNDERGROUND STORAGE TANK

Soil Vapor Readings

SAMPLE #	DEPTH	SOIL TYPE	SAMPLE LOCATION	READING
SS-1 SS-2	9' 9'	Grey sand White sand	Basin Floor North Mid Basin Floor	8.1 ppm 4.7 mag
SS-3	91	White sand	Basin Floor South	2.3 ppm

Laboratory Analysis

SAMPLE #	DATE COLLECTED	LOCATION	RESULT
6065-T1-1	11/19/92	North Floor (9')	<10 ppm DRO
6065-T1-2	11/19/92	South Floor (9')	<10 ppm DRO

Building No. 10137

This site is used primarily as a water supply building which houses a well and pump. This site lies in a section of the fort known as the hospital area. Building number 10111, which is adjacent to this site, was involved in extensive contaminated soil excavation from the removal of a UST.

Topography is level with no surface water features in the vicinity.

A 1000 gallon coated steel UST was installed in 1985 to power a backup pump for the well. The tank appeared in good condition with no obvious signs of a release. All piping was tight with no evidence of leakage.

Four soil samples were collected and field-analyzed with a PID. One sample was collected from beneath each end of the tank and one from each sidewall. All four samples showed no detection of petroleum vapors.

Two laboratory samples were collected from beneath each end of the tank and tested for DRO. Results of the analysis show no detection above the laboratory detection limits.

Weather conditions were sunny and calm with temperature in the 50's.

Groundwater was not encountered during this excavation.

Soils encountered at this site consisted of a thin layer (<6 inches) of organic material overlying light brown, poorly graded sands. These sands remained consistent to a depth of 7.5' feet.

Soil Vapor Readings

SAMPLE #	DEPTH	SOIL TYPE	SAMPLE LOCATION	READING
SS-1	7.5'	light brown sand	West Floor	0.0 ppm

SITE ASSESSMENT REPORT FOR UNDERGROUND STORAGE TANK

Soil Vapor Readings (continued)

<u>SAMPLE #</u>	DEPTH	SOIL TYPE	SAMPLE LOCATION	READING
SS-2	7.5′	light brown sand	East Floor	0.0 ppm
SS-3	51	Grey/brown sand	North Wall	0.0 ppm
SS-4	51	Grey/brown sand	South Wall	0.0 ppm

Laboratory Analysis

SAMPLE #	DATE COLLECTED	LOCATION	RESULT
10137-TI-1	11/24/92	West Floor (8')	<10 ppm DRO
10137-TI-2	11/24/92	East Floor (8')	<10 ppm DRO

SUMMARY

Based on qualitative and quantitative analysis of soil samples collected, it is the recommendation of RSI that additional sampling and investigation is not warranted for the above mentioned sites.

We appreciate the opportunity to have performed these site assessments for you. If you have any questions, please contact Robert J. Maslowski, or myself.

Sincerely,

REMEDIATION SERVICES, INC.

BILL DONOVAN Environmental Geologist

BD:lmr

REVIEWED BY:

ROBERT J. MASLOWSKI Project Manager

Table 1.	Fort McCoy	Underground	Storage	Tank	Information	for	project
	#HA00018-2E	2					

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<u>Building #</u>	Tank Capacity	Tank Product	Tank Installed	Tank Removal
105	750		1042	. 12/02/02
105	750	Fuel Oll	1943	12/02/92
659	750	Fuel Oll	1943	11/24/92
1010	500	Gasoline	Unknown	12/10/92
1553	3000	Leaded Gas	1965	12/10/92
1557	340	Gasoline	1964	12/02/92
1562	500	Diesel Fuel	1971	11/23/92
1565	500	Fuel Oil	1977	11/23/92
1656	750	Fuel Oil	1972	12/01/92
1680	4000	Fuel Oil	1978	12/02/92
1849	750	Fuel Oil	1943	11/30/92
1853	750	Fuel Oil	1943	12/01/92
2197	500	Fuel Oil	1977	12/09/92
2204	1000	Fuel Oil	1943	12/02/92
2541	1000	Fuel Oil	1946	11/30/92
2569	1000	Fuel Oil	1943	12/03/92
2572	500	Fuel Oil	1977	11/30/92
2852	1000	Fuel Oil	1961	11/25/92
5007	550	Diesel Fuel	1985	11/23/92
5014	500	Fuel Oil	1942	11/24/92
5030	500	Fuel Oil	1943	11/25/92
5040	750	Fuel Oil	1943	
6062	400	Diesel Fuel	1976	11/17/92
6062	400	Diesel Fuel	1976	11/17/92
6062	1000	Diesel Fuel	1976	11/17/92
6065	500	Diesel Fuel	1975	11/19/92
6250	140	Diesel Fuel	1976	11/19/92
10111	12000	Fuel Oil	1973	12/03/92
10137	500	Diesel Fuel	Unknown	11/24/92

Table 2. Active Leaking Underground Storage Tank Sites at Fort McCoy (From WDNR L.U.S.T Computer Tracking System, August 13, 1992)

Priori	ty Ranki	ng: 1	- High 2 - Medi	um 3 - Low 4	- Unknown
Distri	.ct	<u>ID#</u>	<u>Site Name</u>	Date Reported	<u>Priority</u>
Wester	n Dist.	128	(Fort McCoy Overal	.1) 10/27/88	1
11		298	Building 1266	10/27/88	4 ~
11	"	299	Building 1358 🗁	10/27/88	3 ~
11		300	Building 1467 🎨	10/27/88	3 ~
11	••	305	Building 1550	10/27/88	3
"		301	Building 1554 🔅	10/27/88	2 ~
11	**	306	Building 1668	10/27/88	3
11		302	Building 1669 (10/27/88	1 ~
	••	303	Building 1879	10/27/88	1 -
11		304	Building 2011	10/27/88	4
11	11	440	Building 457	10/12/90	4
"		722	Building 457	01/31/92	4
11		354*	Building 5014	07/11/90	3

* A UST was removed on 11/24/92

Table 3.	Underground	Storage	Tank	list	of	Clean	Closures,	Fort	McCoy
----------	-------------	---------	------	------	----	-------	-----------	------	-------

BUILDING NUMBER	REMOVAL DATE	INSTALL DATE	TANK CONTENTS	TANK SIZE (GALLONS)	TANK DIMENSIONS
1557	12/2/92	1964	Gas	340g	36" x 60"
2204	12/2/92	1943	Fuel Oil	1000g	64" x 72"
2852	11/25/92	1961	Fuel Oil	1000g	64" x 72"
5007 ¹	11/23/92	1985	Diesel	550g	48" x 72"
5030	11/25/92	1943	Fuel Oil	500g	48" x 72"
6065 ¹	11/19/92	1975	Diesel	500g	48" x 72"
10137 ¹	11/24/92	Unknown	Diesel Fuel	500g	Unknown

¹ Federally regulated tank

. Table 4.

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Existing UST's scheduled for closure. Information provided by the Fort McCoy Environmental Department.

Bldg	Capacity	Product	Installed	Projected <u>Removal</u>
2190	12,000	gasoline	1943	1993
2190	12,000	gasoline	1943	1993
2190	1,000	diesel	1943	1993
2190	12,000	diesel	1943	1993
2190	1,000	gasoline	1943	1993
3050	10,000	gasoline	1975	1993
3050	7,500	used eng oi	1 1975	1993
3050	1,500	fuel oil	1976	1993
3050	25,000	fuel oil	1975	1993
3050	10,000	diesel	1975	1993
1553	8,000	gasoline	1975	1994
1553	14,000	gasoline	1965	1994
5050	500	fuel oil	1943	1994
6188	1,500	fuel oil	1952	1995
7051	1,000	fuel oil	1969	1995

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Table 5. Recently installed UST systems. Information provided by Fort McCoy Environmental Department Personnel.

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Location	Capacity	Product	Installed
Bldg 242	3-unknown	Unknown	1992
Bldg 1370	1-2,500	Diesel	1990
Airport	4-20,000	Jet fuel	1992



APPENDIX A

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J&D ENTERPRISES



Remedial Environmental Services Co. A Division of Waste Research & Reclamation Co., Inc.

PROFILE SHEET FOR UST PROGRAM

A. General Information	EPA Number 4153310020563
Business Name (Tank owner) Site Address City, State, Zip	Dept of the Army Fort McCoy Building 2103 Headquarters Fort McCoy Ft. McCoy, WI 54656-5000
Contact Maureen Storan	dt Contracting Phone (608) 388-2924
Contractor: Name Address City, State, Zip	J & D Enterprises of Duluth, Inc. 5197 Lavaque Road Duluth, MN 55803
Contact Rani Douvill	e Phone (218) 729-9105
Bill to Generator	Contractor XX
B. Underground Tank Size	Capacity (Gal.) Various sizes from contract
Date tank was taken on Material currently in (Check one)	Leaded gasoline Diesel fuel Heating oil #5,#6 Waste oil
* Does the sludge contain Tank will be disposed of a Transportation, of sludge	PCB'S? YES NO \underline{XX} at WR&R: YES NO \underline{XX} , will be by:
	Contractor <u>XX</u> WR&R
Total gallons (projected) disposed of at	to be WR&R: 275

<u>Certification</u>: I, the undersigned, the generator, or an employee of the generator, and having proper authority granted by the generator, hereby certify the information above is a true representation of the waste. I have examined and am familiar with the information submitted in this form. To the best of my knowledge it is true and correct, and that all known and suspected hazards have been disclosed.

Generator Signature Date CONTRACTING OFFICER'S REPRESENTATIVE

WRR will accept this specific material for processing and disposal. Please contact Jim Wilkie at (715) 836-8796 prior to shipment for labeling and shipping information. *If the material contains FCB's when it arrives at our plant, it will not be accepted.



Remedial Environmental Services Co. A Division of Waste Research & Reclamation Co., Inc.

PROFILE SHEET FOR UST PROGRAM

A. General Information	EPA Number (1)7 32 100 20563
Business Name (Tank owner) Site Address	Dept of the Army Fort McCoy Bldg 2103, Headquarters Fort McCoy
CICAL PRACEL STD	Fort McCoy, W1 54656-5000
Contact <u>Maureen Storan</u>	dt Phone (608) 388-2924
Contractor:	
Name	J & D Enterprises of Duluth, Inc.
Address	5197 Lavague Road
City, State, Zip	Duluth, MN 55803
Contact <u>Rani Douvill</u>	e Phone (218) 729-9105
Bill to Generator	Contractor XX
B. Underground Tank Size Date tank was taken out Material currently in ((Check one) * Does the sludge contain :	Capacity (Gal.) <u>Various</u> sizes from contract DAKF61-92-C-0050 t of service <u>11-16-92</u> to 12-16-92 tank - Unleaded gasoline <u>X</u> Leaded gasoline <u>X</u> Diesel fuel Heating oil #1,#2 Heating oil #5,#6 Waste oil <u>C</u> Other PCB'87 YES NOXX
Tank will be disposed of a	t WRER: YES NO XX
Transportation, of sludge,	will be by:
	Contractor XX
Total gallons (projected)	to be
disposed of at 1	$WRER: \qquad 30$
<u>Certification</u> : I, the undersignerator, and having proper a the information above is a true and am familiar with the information above is a true and a familiar with the info	gned, the generator, or an employee of the uthority granted by the generator, hereby certify a representation of the waste. I have examined mation submitted in this form. To the bast of my

knowledge it is true and correct, and that all known and suspected hazards have been disclosed. Generator Signature Date (1-9-93)CONTRACTING OFFICER'S REPRESENTATIVE

WRR will accept this specific material for processing and disposal. Please contact Jim Wilkie at (715) 836-8796 prior to shipment for labeling and shipping information. *If the material contains PCB's when it arrives at our plant, it will not be accepted.



174		-729-6031 STATE OF Chapter 144. Wis. Form 4400-66P	J&D ENTERPRIS WISCONSIN Stats. Rev. 10-92	BES J	St Departme Bureau of Soll Madh	1 Inte of Wisconsi ent of Natural R id and Hazardon Box 8094 Ion, Wisconsin 5	57 Pú 1 1 1 20001000 1 1 20001000 1 1 1 1 1 1	B JUL 9	12 '93 D R DN F	Ø9:37 I UBE ONLY	
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	11. US DOT D	escription (Including	Proper Shipping Name	, Hazard Class, c	and ID Numi	bery No.	Тура	Quantity	Wt/Vol	Waste No.	ű.
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- #	b. BQ-MAST	s TURL OIL, 3.	ERIPPO, PRIII			A A #	141 B				
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APPENDIX B

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BUILDING NUMBER 10137



Excavation site at Building No. 10137



Final extent of excavation at Building No. 10137

Contraction of the second seco	A CREEK	BLDG IDI37 BLDG IDI37 BOOGAL DIESEL FUEL CREEK	$\frac{1}{10}$
		·	
REV. NO. DATE	DESCRIPTIC	N	BY
PROJ. NO. HA (0018-2P	DATE JL	N 1992
O. & M. 07/	DIRECTORATE OF E	NGINEERING AND	HOUSING
SAFETY! Rutter	FORT McC	OY, WISCO	NSIN
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1931 West County Road C2, St. Paul. Minnesota 55113 Phone (612) 636-7173 (AX (612) 636-7178

LABORATORY ANALYSIS RE 12/16/92	PORT NO: :	24335	PZ	AGE 4
SERCO SAMPLE NO:	119272	119282	119292	119302
SAMPLE DESCRIPTION:	5007~TI~ 1	5007-TI- 2	10137-TI 1	1013 7- TI 2
ANALYSIS:				
Diesel Range Organics C10-C28,	<10	<10	<10	<10
Analytical Method for MOD DRO Date of Extraction for MOD DRO Date of Analysis for MOD DRO Total Solids, percent	MOD DRO 11/25/92 12/08/92 92.6	MOD DRO 11/25/92 12/08/92 86.4	MOD DRO 11/25/92 12/08/92 96.1	MOD DRO 11/25/92 12/08/92 96.1
SERCO SAMPLE NO:	119312	119692	119702	
SAMPLE DESCRIPTION: ANALYSIS:	Detect. Limits Not Dry Weight	Para meter Numbers	Water Detect Limit	
Diesel Range Organics C10-C28,	10			
dry weight, mg/kg Diesel Range Organics, C10-C28, ug/L Acenaphthene, ug/L Acenaphthylene, ug/L Anthracene, ug/L	-	78919 34205 34200 34220	100 1.5 14 0.17	
Benzo(a)anthracene, ug/L		34526	0.010	
Benzo(a)pyrene, ug/L		34247	0.039	
Benzo(ghi)perylene, ug/L Benzo(k)fluoranthene, ug/L		34521 34242	0.017	
Chrysene, ug/L Dibenzo(ah)anthracene, ug/L Fluoranthene, ug/L Fluorene, ug/L Indeno(1,2,3-cd)pyrene, ug/L		34320 34556 34376 34381 	0.052 0.011 0.077 0.60 0.017	

< means "not detected at this level". 1 mg = 1000 ug.



MEMBER

State of onsin Department of Namral Resources CHAIN OF CUSTODY RECORD LUST PROGRAM Form 4400-151 11-91

Page 1022

Sample Collector(s) [Title/Work Station/Con					mpany ,				e Number (in	clude area co	de)	
BILL DONOVAN ENTAL GEOI					GEOLOGI	BIST / R.ST. 218-722-6013						
Property Owner			100		Property Address		Telephone Number (include				clude area co	area code)
NON SCHON	ASKY (CONST.	INSP.		FORT MCCOU,	WI			348-	608-25	10-:346de	>
I hereby c	crify that I	received, j	properly han	dled, and dispose	ed of these samples as noted below		12 0	in P.				
Relinquished By	(Signature	:)	Date/Tir	ne	· Received By (Signature)		Temperature o	f temperature bli	ank:			
Relinquished By	(Signature	.)	Date/Tir	De	Received By (Signature)		If samples wer	e received on ice	and there w	vas ice remai	ning, you me	y report the
Romiquined Dy	(0.8	,,					temperature as	"received on ice	". If all of i	he ice was m	elted, the ter	nperature
Relinquished By	(Signature	2	Date/Tin	192 2'2	P Received for Laboratory B	y (Signature)	P 11/2	clas r		Sample C	andition	
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Number	Collected	Collected	Type 1 Dev	vice Type	(see footnote ²)	Туре	Number	Containers	/Broken	Scaled	Condition	Comment
16-11-1	11/22/2-	1:20	Sau		MID FLOOR. 6.5'	DRO		3				
S-41-1	11/23/92	1.30	JOOL			DRY WT	·					-
565-71-6W	5825/11	1:45	GW			· PVDC.		ų į				
562-TI-1·	11/23/92	S:00	SOL		SOUTH FLOOR 61	DEL		- 3				
(12-71-2	11/22/02	2.00	Stul		NORTH FLOOR 61			3				
	110000	0.00				DED PAH		,				
62-11-GW	11/23/92	2:15	GW			PLOC						
007-71-1	11/23/92	.4:00	Solc	~	Deuth 4 LOBR 71	DRU WIT		3				
007-T1-2	11/23/92	4:00	SOIL	-	KADRITH FLOOR 9'			3				
0137-TI-1	11/24/22	# 45	Spil	7	WEST FLOOR BI	_		3	1.			
0127-71-2	11/24/92	1:45	Soll	1	LEAST FLOOR 8'			- 3				
¹ Specify group	ndwa er. su	rface water	soil leach	ate, sludge, etc.	L							
² Sample descr	ription mus	t clearly co	orrelate he s	ample ID to he	sampling location.							
and the second second	DEPA	RTMENT	JSE/OPTION	AL FOR SOIL SA	AMPLERS			DEPARTMENT	USE ONLY	ente e transmissionen.	and a second	
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1-218-729-6031

	J&D	ENTERPRISES
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PETROLEUM PRODUCT

991	PEI7	JUN	11	'93	13:50
		P.O. Box	790	4	

Madison, WI 53707
Telephone (508) 267-5280

The Oliver of I	PETRO	LEUM PRODUCT	P.Q. Box 7309				
For Office Use Only: Tank ID #	TAN	K INVENTORY	Madison, WI \$3707 Telephone (608) 267-5280				
This form is to be completed pursuant to Section 101.142, Wis, Stats., to register all underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.							
This registration applies to a tank that is (check 1. In Usa Abandoned With Product A Abandoned No Product (empty) In Abandoned No Product (empty) 	one): Ibandonad - Tank Removed Ibandoned - filled With nert Material	B., Changed Ownership (Indicate new owner in section A. 4. below)	Fire Department Fronding Fire Coverage Where Tank & Located & In: City [] Village [] Town of				
or With Water 7. 🗋 C	Dut of Service	the second s	Tomah, WI				
A. IDENTIFICATION: (Please Print) 1. Installation Name Fort McCov		2. Mailing Name if Differen	nt Than #1				
Installation Street Address		Mailing Address if Differ	ent Than #1				
<u>- 1312 a 10137</u>		Contracting	, Building 2103				
Fort McCov.	D Town of:	D City	Village D Town of:				
State WI ZipCode 54656	County Monroe	State WI	pCode , County 54656 Monroe				
3. Name of Contact Person		4. Owner Name II Differen	t Than #3				
Street Address	مېرونو وې د وې د وې د وې د وې د وې د وې وې د وې وې د وې	Street Address	Army				
Building 2103		Headquarter	5				
Cry Town Stat	Zip Code	City Town	Suite Zip Code				
County Telephone No	(include area code)	County	Talaphone No. (include area code)				
Monroe 608-3	88-2924	Monroe	608-388-2924				
2. Jane Age costs installed it known: of has	Soo	UOKOOW	61.1 Jenue (ILTUCANU)				
B. TYPE OF USER (check one); 1. □ Gas Station 2. □ 5. □ Industrial 6. 5. 9. □ Agricotrural 10. 0.	lulk Storage Sovernmant Rher (spucify):	1. [] Utiliny 7.] School	4. 🗇 Mercantile 8. 💭 Residentus!				
C. TANK CONSTRUCTION: 1. Bare Steel 2 11 3. Coated Steel 4. 11 6 Relined 7. 11	Lathodically Protected and Co iderglass steel - Fiberplass Reinforced P	stad Staal (s.) Secrificial A 5. Oth S. Oth	nodes or b. D Impressed Current) er (specify):				
Approval 1 ANTIStd 2. DUL 3.	MOther: N/St-	and the second se	tant Double Walled? [] Yes Yd No				
Overfill Protection Provided? DYes KIN	Hyes, identify type:	<u> </u>	Spill Containment? Ves No				
Tank leak detection method. 1. Automat	ic tank gauging control and tightness testing	2. U Vapor monitoring 3. Triterstrial monitor	3. Groundwater monitoring Sting 6. 12 Not required at present				
 D. PIPING CONSTRUCTION 1. D. Bare Steel 2. Cathodically Protect 4. Fiberglass 5. Other (specify): 	ted and Coated or Wrapped S	teel (a [] Sacrificial Anodes	or b. [] Impressed Current) 3. [] Costed Stee 9. [] Unknown				
Piping System Type: 1. Pressurized piping	with: a.] euto shutoff; b.	alarm; or c [] flow restricto	2. Suction piping with check valve attank				
Piping leak detection method, used if pressure	red or check valve at lank: 1.	Vapor monitoring	Dinterstrial monitoring				
3. [] Groundwater monitoring 4. [] Tightness testing 3.	Line Lask Detector	NENgt Required				
Approval: 1. Nat'istd 2. UL	Dother: NA	And the second	Double Walled: Yes DNo				
1 "Ser Dustel 2 1"	hebee	the based of	4. C Evel Oil				
5. 🖸 Gasohol 6. 🗍	Other	7. D Empty	8. Sand/Gravel/Slurny				
9. 🖸 Unknown 10. 🖸	Premix	11. D Weste Oil	12. 🖸 Propane				
13. Chemical "		14. 🔲 Keroséne	15. [] Aviation				
" If # 13 is checked, indicate the chemical nar	ne(s) or number(s) of the chen	nical or Weste.					
HTank Abandoned, Give Date (mo/daylyr): 11-24-92	مى يەرىپى يېرىپى بىلىغان يېرىپى ي يېرىپى يېرىپى	Has a site assessment been	tompleted? (see reverse side for details)				
If installation of a new tank is being reported,	indicate who performed the in	nstallation inspection:	NIA				
Signature of Perion Completing Banon	and the second se	Oate t	oped:				
Rane Dors 11	I.d.		6-11-93				
\$80-7437 (R. 09/89) Rani Douvi	lle, J&DEr	nterprises					

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

This underground tank inventory is being established to help identify the need for future actions required to clear up potential problems before they occur. Your help in identifying abandoned, "in use" and "new use" tank locations will greatly assist this effort to protect Wisconsin's ground water.

SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23,1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

j.

(a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

"(e) Vapor monitoring." This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.

"(f) Ground-water monitoring." This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

Bureau of Petroleum Inspection and Fire Protection P.O. Box 7969 Madison, WI 53707

Site assessments are to be submitted to <u>both</u> the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection	Bureau of Solid and Hazardous Waste Management				
P.O. Box 7969	P.O. Box 7921				
Madison, WI 53707	Madison, WI 53707				



DEPARTMENT OF THE ARMY HEADQUARTERS, FORT MCCOY OFFICE OF THE COMMANDER SPARTA, WISCONSIN 54656



EP 27 1993

REPLY TO ATTENTION OF

Environmental Management Division

Mr. Tim Baker Area Hydrogeologist Wisconsin Department of Natural Resources 910 Highway 54 East Black River Falls, Wisconsin 54615

Dear Mr. Baker:

Enclosed are two site assessment reports and an addendum to the reports for the removal of 29 underground storage tanks (USTs) at Fort McCoy. Nineteen of the removal sites appear to be clean closures and ten sites need additional investigation.

Laboratory results indicate contamination at Buildings 659, 1553, 1562, 1565, 1656, 1680, 1849, 2869, 5014, and 5030 (1 of 2 tanks). Remediation Services Incorporated of Duluth, Minnesota will perform remedial investigations at these sites later this year, with the exception of Building 1553 (PX gas station). Building 1553 is presently being investigated by Braun Intertec Environmental Incorporated of Mendota Heights, Minnesota.

No further work is planned at the 19 sites which laboratory results show to be clean. These sites are located adjacent to Buildings 105, 1010, 1853, 2197, 2541, 2572, 5040, 6062 (3 tanks), 6250, 5007, 1557, 2204, 2852, 5030 (1 of 2 tanks), 6065, and 10137. We request that the Wisconsin Department of Natural Resources declare these 19 tank removals clean closures.

If you have any questions or comments regarding Fort McCoy's UST program, please contact Mr. Kurt Brownell of the Environmental Management Division at (608) 388-4789.

Sincerely,

enlathame LTC Acting Car

VScott W. Hyatt Colonel, U.S. Army Commanding

Enclosures

Copy Furnished (wo/encls):

Commander, Headquarters U.S. Army Reserve Command, ATTN: AFRC-ENS-E (Debbie Richert), 3800 North Camp Creek Parkway Southwest, Atlanta, Georgia 30331-5099

Called 10/4/93 & requested corr of reports (talked to Debbie, Kurt was out)

	4	FORT	IC COY UNDERGROUND	STORAGE TANK INVE	NTORY		r	ot complete
BI	LDG ‡	TANK CAP GAL	TANK PRODUC T	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	TANK STATUS	PROJECTED REMOVAL YEAR	
	1370	2,500	DIESEL FUEL	FIBERGLASS	1990	IN USE	N/A	
	105	750	FUEL OIL	BARE STEEL	1943	IN USE	1992	
	659	250	FUEL OIL	BARE STEEL	1943	IN USE	1992	
	1010	500	DIESEL FUEL	UNKNOWN	?	ABAN	1992	
	1553	3,000	LEADED GAS	BARE STEEL	1975	ABAN	1992	
	1557	340	GASOLINE	BARE STEEL	1964	IN USE	1992	
	1562	500	FUEL OIL	BARE STEEL	1971	IN USE	1992	
	1000	200	FUEL OIL	FIBERGLASS	1977	IN USE	1992	
	1690	100	FUEL OIL	DARE STEEL	1972	IN USE	1992	
	1849	750	FUEL OIL	RADE CALLSS	19/0	IN UCE	1992	
	1853	750	FUEL OIL	BARE STEEL	1943	IN USE	1992	
	2197	500	FUEL OIL	INKNOWN	1977	IN USE	1992	
	2204	1.000	FUEL OIL	BARE STEEL	1943	IN USE	1992	
	2541	1.000	FUEL OIL	BARE STEEL	1946	IN USE	1992	
	2569	1.000	FUEL OIL	BARE STEEL	1943	IN USE	1992	
	2572	500	FUEL OIL	BARE STEEL	1977	IN USE	1992	
	2852	1,000	FUEL OIL	BARE STEEL	1961	IN USE	1992	
	5007	550	DIESEL FUEL	COATED STEEL?	1985	IN USE	1992	
	5014	?	FUEL OIL	BARE STEEL	1942	IN USE	1992	- i la anticio
	5030	750	FUEL OIL	BARE STEEL	1943	IN USE	1992 -	- 2 tanks removed this
	5040	500	FUEL OIL	BARE STEEL	1943	IN USE	1992	(0 carron (30 30)
	6062	500	DIESEL FUEL	COATED STEEL	1976	IN USE	1992	
	6062	500	DIESEL FUEL	COATED STEEL	1976	IN USE	1992	
	6062	500	DIESEL FUEL	COATED STEEL	1976	IN USE	1992	
	6000	500?	DIESEL FUEL	UNKNOWN	1975	ABAN	1992	
	10111	12 000	DIESEL FUEL	BADE STEET	19/6	IN USE	1992	
	10137	12,000	DIESEL FILEL	DAKE SIEEL	1973	ADAM	1992	
	242	1 500	INNISED SOLVENT	COLTED STEET	1077	TH HCE	1992	x
	242	10,000	FUEL OIL	COATED STEEL	1971	IN USE	1993	
	242	5.000	DIESEL FUEL	COATED STEEL	1971	IN USE	1993	
	242	5.000	UNLEADED GAS	COATED STEEL	1971	IN USE	1993	•
	2190	500	DIESEL	BARE STEEL	1943	ABAN 1979	1993	
	2190	12,000	UNLEADED GAS	BARE STEEL	1943	ABAN	1993	
	2190	12,000	UNLEADED GAS	BARE STEEL	1943	IN USE	1993	
	2190	12,000	DIESEL FUEL	BARE STEEL	1943	IN USE	1993	
	2190	1,000	UNLEADED GAS	BARE STEEL	1943	IN USE	1993	
	2190	1,000	DIESEL FUEL	BARE STEEL	1943	IN USE	1993	
	3050	25,000	FUEL OIL	BARE STEEL	1975	IN USE	1993	
	3050	25,000	FUEL OIL-	BARE STEEL	1975	IN USE	1993	
	1020	10,000	DIESEL FUEL	BARE STEEL	1975	IN USE	1993	
	3050	1,000	TULL UIL	PIDERGLASS	1976	ABAN	1993	
	3050	-10,000	UNLEADED GAS	DARL STELL	1975	IN USE	1993	
	5050	500	TIFI ATI	DARE SILLL	19/3	IN USE	1993	
	6199	1 500	FUEL OIL	BARE STEEL	1050	TN HCE	1005	
	7051	1,500	FUEL OIL	BARE STEEL	1040	IN HCE	1002	
	1553	8 000	INLEADED CAS	COATED STEEL	1965	IN HOF	1000	
	1553	14,000	UNLEADED GAS	BARE STEEL	1965	IN USE	1998	

INVENTORY OF FORT MCCOY UST REMOVALS

3LDG NUMBER	TANK CAPACITY GAL	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	REMOVAL YEAR	CLEAN CLOSURE YES/NO/UNK
2114	860	FUEL OIL	BARE STEEL	1947	1978	UNK
1754	1,500	FUEL OIL	COATED STEEL	1972	1986	UNK
106	1,500	FUEL OIL	BARE STEEL	1943	1989	YES
108	750	FUEL OIL	BARE STEEL	1943	1989	YES
1266	12,000	WASTE OIL	BARE STEEL	1943	1989	HO
1256	12,000	WASTE OIL	BARE STEEL	1943	1989	OF.
1358	12,000	GASOLINE	BARE STEEL	1943	1989	NO
1467	12,000	DIESEL	BARE STEEL	1943	1989	NO
1467	12,000	DIESEL	BARE STEEL	1943	1989	NO
1550	750	FUEL OIL	BARE STEEL	1943	1989	YES
1550	750	FUEL OIL	BARE STEEL	1943	1989	TES
1554	12,000	FUEL OIL	BARE STEEL	1943	1989	NO
1658	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES
1661	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES
1668	1,650	FUEL OIL	FIBERGLASS	1977	1989	YES
1668	1,650	FUEL OIL	FIBERGLASS	1977	1989	YES
1669	12,000	GASOLINE	BARE STEEL	1943	1989	ЯO
1669	12,000	DIESEL	BARE STEEL	1943	1989	NO
1857	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES
1859	4,000	WASTE OIL	FIBERGLASS	-1978	1989	YES
1962	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES
1379	12,000	GASOLINE	BARE STEEL	1943	1989	ЯO
1879	12,000	GASOLINE	BARE STEEL	1943	1989	NO
1938	860	FUEL OIL	BARE STEEL	1951	1989	YES
2011	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES
2013	750	FUEL OIL	?	?	1989	YES
2110	2,000	GASOLINE	?	?	1989	YES
2113	4,000	FUEL OIL	BARE STEEL	1947	1989	YES
2190	4,000	GASOLINE	BARE STEEL	1943	1989	YES
2190	750	DIESEL	BARE STEEL	1943	1989	YES
2190	750	DIESEL	BARE STEEL	1943	1989	YES
2773	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES
6062	1,000	FUEL OIL	COATED STEEL	1976	±1989	YES
10111	500	FUEL OIL	BARE STEEL	1943	1989	YES
- 457	750	FUEL OIL	BARE STEEL	1943	1991	NO
-1152	1,500	GASOLINE	BARE STEEL	1970	1991	TES
- 1152	1,000	DIESEL	BARE STEEL	1970	1991	_= NO
- 1409	4,000	FUEL OIL	FIBERGLASS	1978	1991	YES
- 1553	1,000	FUEL OIL	BARE STEEL	1943	1991	NO
- 1669	1,000	SOLVENT	BARE STEEL	1943	1991	YES
-1669	1,000	KEROSENE	BARE STEEL	1943	1991	YES
-2321	12,000	FUEL OIL	BARE STEEL	1943	1991	YES
2846	1,500	FUEL OIL	BARE STEEL	1958	1991	YES

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