

Final Report
(Follow-up Work)
Nebraska National Forest Site #1
Halsey, Nebraska
TDD#F-07-8703-13 (FNE0011SB)
Site # 07X Project #001
Prepared by: E&E/FIT For Region VII EPA
Submitted to: Paul Doherty, RPO
Task Leader: Karen Koth
CERCLA PO: Cecilia Tapia
September 30, 1987

04-1

#178512

State	Nebraska
Site	NELE122390010
Page	1.7
Date	9-30-87



178512
SUPERFUND RECORDS

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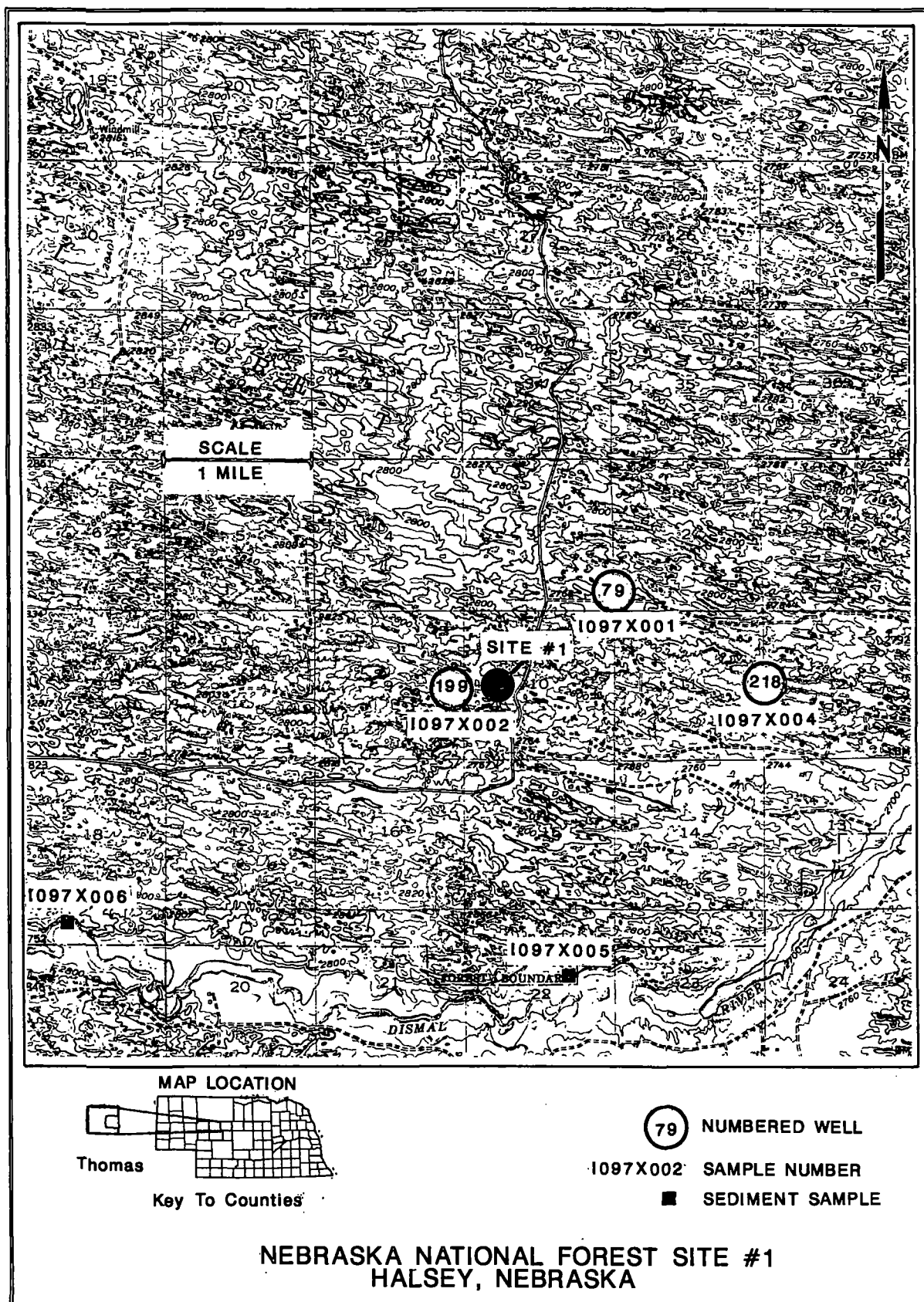
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SECTION 1. INTRODUCTION

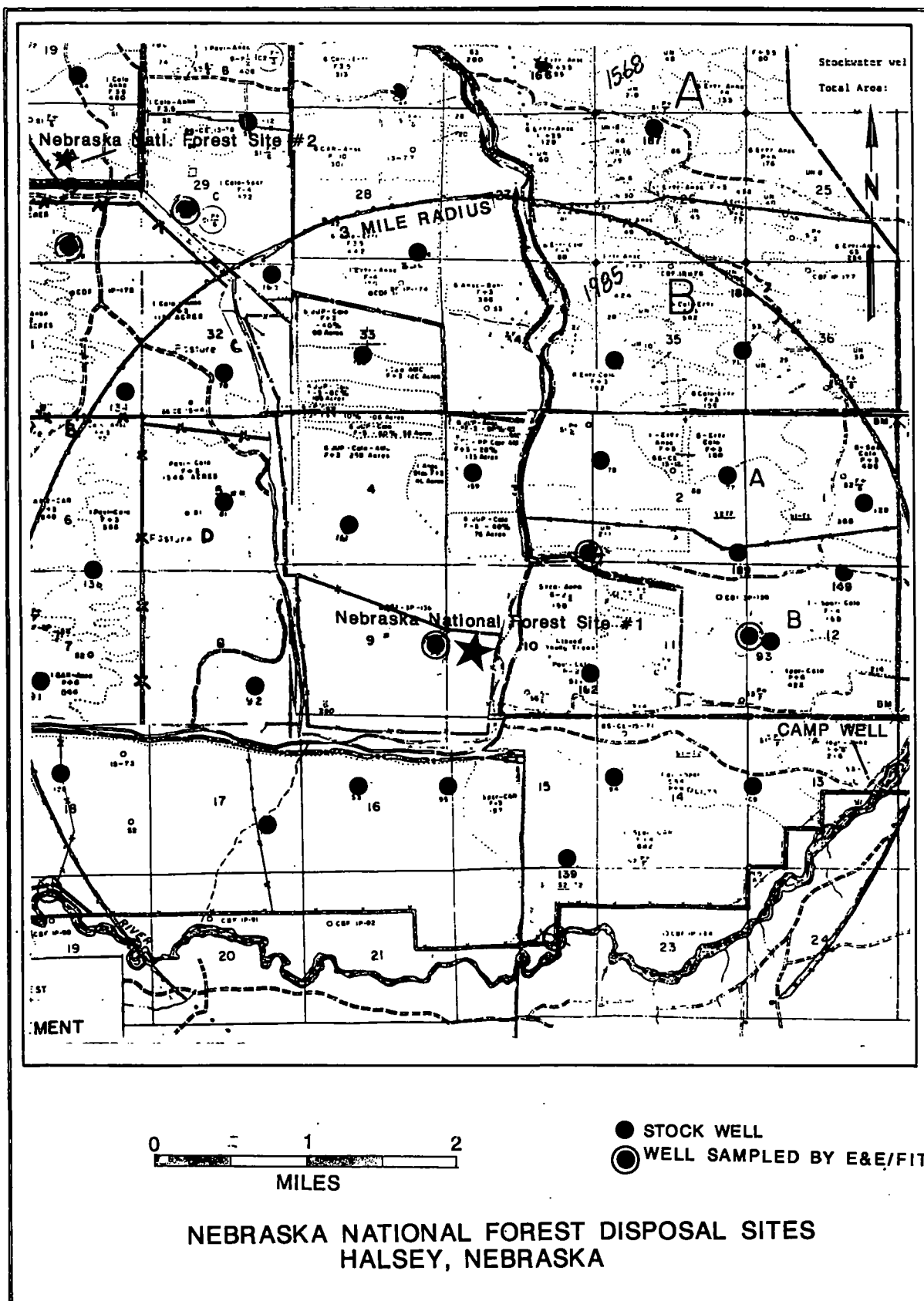
The Nebraska National Forest Site #1 is one of two known pesticide burial sites located in the Bessey Ranger District of the Nebraska National Forest, which is near Halsey, Nebraska (Figure 1 and 1A). The U.S. Environmental Protection Agency (EPA) requested that the Ecology and Environment Inc./ Field Investigation Team (E&E/FIT) investigate these sites (Nebraska National Forest sites #1 and #2) under the former FIT contract (#68-01-6692). A work plan detailing proposed work at site #1 was completed under the former FIT contract. The work plan proposed well and sediment sampling, geophysics, and soil borings around the waste burial unit. This report summarizes the analytical data for ground water and sediment samples collected by E&E/FIT in December 1986 and the geophysical survey that was completed concurrently. This initial sampling/reconnaissance was intended to determine the feasibility/necessity of completing soil borings around the burial area.



SOURCE: USGS 15' HALSEY, NE QUAD. 1948.

ECOLOGY & ENVIRONMENT/FIT 1987

FIGURE 1: SITE LOCATION



SOURCE: BESSEY RANGER DISTRICT
NEB. NATL. FOREST MAPS

ECOLOGY & ENVIRONMENT/FIT 1987

FIGURE 1A

SECTION 2: SITE LOCATION AND DESCRIPTION

The Nebraska National Forest Site #1 is located approximately 8 miles southwest of Halsey, Nebraska and is situated in the Sand Hills region of the northcentral portion of the state (Figure 1). The legal description of the site is: the W. 1/2 of Section 10, T.21N., R.26W. (Appendix A, Photo No.1).

Various sized dunes are present in the area, which is interspersed with nearly level to gently rolling valleys (Ref. 3). The topography of the disposal site has been observed to exhibit a 0 to 1 percent slope and runoff is expected to be minimal to nonexistent (Ref. 1). The burial site is marked with a permanent metal sign that reads: "Danger Chemicals, 1970, 6 ft. down" (See Appendix A - Site Photograph). The closest surface water body is the Dismal River, which is situated about 2 miles south of the site and flows to the east. (Refs. 3 and 4).

The closest private residence was reported to be about 3 miles southwest of the site; however, according to forest personnel there is no longer anyone living at this residence. Dunning (population 162) is the nearest town in a presumed downgradient direction of the site. It is located about 12 miles east-southeast.

SECTION 3: SITE HISTORY

During the 1960s, the Nebraska National Forest conducted a beetle control project which involved the utilization of large quantities of the pesticide Lindane. In 1970 the surplus Lindane and other chemical pesticides were disposed of in a sand blowout (estimated to be 1/20th of an acre) located approximately 8 miles southwest of the town of Halsey within the Bessey Ranger District of the Nebraska National Forest. The wastes, mostly containerized in drums of various volumes, were reportedly bulldozed for compaction purposes before being covered with approximately 6 feet of sand. The compaction caused the containers to rupture, and the Forest Service speculates that most or all of the waste materials have leaked from the drums and migrated from the burial site (Refs. 1 and 2).

The following quantities of pesticides were placed in this first site: 25 55-gallon drums of Lindane; five 5-gallon drums of sulfuric acid; 200 1-gallon pressurized cans of methyl bromide; 36 1-gallon cans of DDT (2% mixture with kerosene); and 10 gallons of malathion (Ref. 2).

An emergency assessment (EA) completed for the site by E&E/TAT in 1982 reported that concentrated DDT also was disposed of at the site. This information was provided through on-site interviews with Forest Service personnel (Ref. 1).

Water samples were taken in September 1982 from three livestock wells surrounding the site: well #162, 79, and 199 (See Figure 1 for well locations). The closest downgradient well is about 3/4 mile from the site. These wells, which range from 90 to 112 feet, are used primarily for watering livestock and for hikers who might occasionally pass by this remote area. Results of the 1982 sampling showed no detection of either Lindane, DDT, or malathion.

In December 1982 Robert L. Morby, Chief, Waste Management Branch, EPA, recommended in a letter to Dee Boe, Forest Supervisor, that future sampling at the site be expanded to include three additional wells: #94, 139, and possibly #109. Morby concluded that this sampling scheme would intercept any contaminants in the ground water downgradient of the site. He also recommended sampling the Dismal River, which is located approximately 2 miles south (downgradient) of the site. It is believed that the major recharge of this river originates from the potentially contaminated aquifer beneath the disposal area.

The most recent sampling at the site completed by Forest Service personnel occurred in September 1984. Six water samples were taken from the following stock wells: 79, 94, 95, 109, 162, and 199. Sample results showed no detection of Lindane, DDT, or malathion (Ref. 1).

SECTION 4: SOILS AND GEOLOGY

Soils in the vicinity of the site consist of the highly permeable Valentine fine sands. Valentine sands consist of a thin surface soil of a sandy or loamy texture underlain by a sand subsoil. This soil type is derived from an eolian sand and possesses a low available water capacity (.08 to .10 inches/inch of soil). Permeability is rapid at a rate of 5.0 to 10.0 inches per hour (Ref. 3).

Pleistocene age deposits overlie the bedrock aquifer that consists of Tertiary age Pliocene deposits. The bedrock deposits (up to 800 feet thick) consist of an aggregate of interlayered stream sediments, lake beds, and possibly wind-laid sediments. These sediments are referred to as "mortar bed" sediments cemented with calcium carbonate, that are interspersed with less cemented beds of sand and clay. This bedrock aquifer, combined with the overlaying alluvial deposits, is reported to have a 700 to 800 million acre-feet ground water reserve. Localized ground water flow is to the east-southeast toward the Dismal River (Ref. 5 and 6).

Surrounding towns in the area, Halsey and Dunning rely on ground water as a drinking water source. Halsey is located approximately 8 miles northeast and Dunning approximately 12 miles southeast of the site. The ground water is obtained from wells that penetrate the Ogallala formation. The livestock wells sampled during the E&E/FIT investigation also draw water from the Ogallala and have static water levels ranging from 53 to 77 feet (Table 1) below the ground surface (Ref. 1).

SECTION 5: CHARACTERISTICS OF POTENTIAL ON-SITE CONTAMINANTS

The following compounds are known to have been disposed of at the site: lindane, malathion, DDT, methyl bromide, and sulfuric acid (Ref. 2). All of these compounds, with the exception of sulfuric acid, are utilized as insecticides (Refs. 8 and 9).

Lindane, also known as gamma BHC and gamma HCH, is an insecticide for foliage application on fruit and nut trees, vegetables, timber, and wood. In 1975, the EPA set a drinking water standard of 0.004 ug/l and in 1980 they set a maximum of 0.4 ug/l in wastes (Refs. 8 and 9).

Malathion is an insecticide used on fruits, vegetables, and ornamental plants. It is water soluble to 145 ppm, miscible in most organic solvents; but has limited solubility in petroleum oils. An EPA criterion of 0.1 ug/l exists for the protection of freshwater and marine life (Refs. 8 and 9).

DDT (dichlorodiphenyltrichloroethane) is a highly toxic insecticide. It is almost insoluble in water, but is soluble in polar organic solvents. Because of its low water solubility and high lipophilicity, this compound bioaccumulates in the fatty tissues of warm-blooded animals. DDT and its degradation products; DDA-bis(chlorophenyl)acetic acid and DDE-dichlorodiphenyl dichloroethylene are toxicants with long term persistence in soil and water. DDE is the principal degradation product and exhibits properties similar to DDT. As of January 1, 1973, all uses of DDT were banned in the U.S., with the exception of emergency public health uses (Refs. 8 and 9).

Methyl bromide (bromomethane) is primarily an insect fumigant, but also is used as a chemical intermediate and methylating agent, a refrigerant; a herbicide; a fire

extinguishing agent; a low boiling solvent in aniline dye manufacture; a wool degreaser; for extracting oils from nuts, seeds, and flowers; and in ionization chambers. It also is used as an intermediate in the manufacture of many drugs. This compound is a colorless liquified gas which is handled as a liquid under pressure. It is readily soluble in lower alcohols, ethers, esters and ketones, halogenated hydrocarbons, aromatic hydrocarbons, and carbon disulfide. The permissible concentration in water to protect human health is preferably 0 (Ref. 8 and 9).

Sulfuric acid is a colorless greasy liquid that is miscible in both water and alcohols. It is commercially sold as 93 to 98 percent acid, the remainder being water. Sulfuric acid is utilized for many purposes, including use in synthetic fertilizers (Ref. 9).

SECTION 6: FIELD ACTIVITIES

6.1 GEOPHYSICAL SURVEYS

Two geophysical instruments, the Geonics model EM-31 (EM) conductivity meter and the EG&G model G-856 magnetometer (MAG), were employed at the site. Generally, the EM measures apparent terrain conductivity, which is related to electrolytes and metallic objects in the subsurface. Readings are measured in millimhos/meter (mmhos/m). The effective exploration depth of the EM-31 is a maximum of about 6 meters.

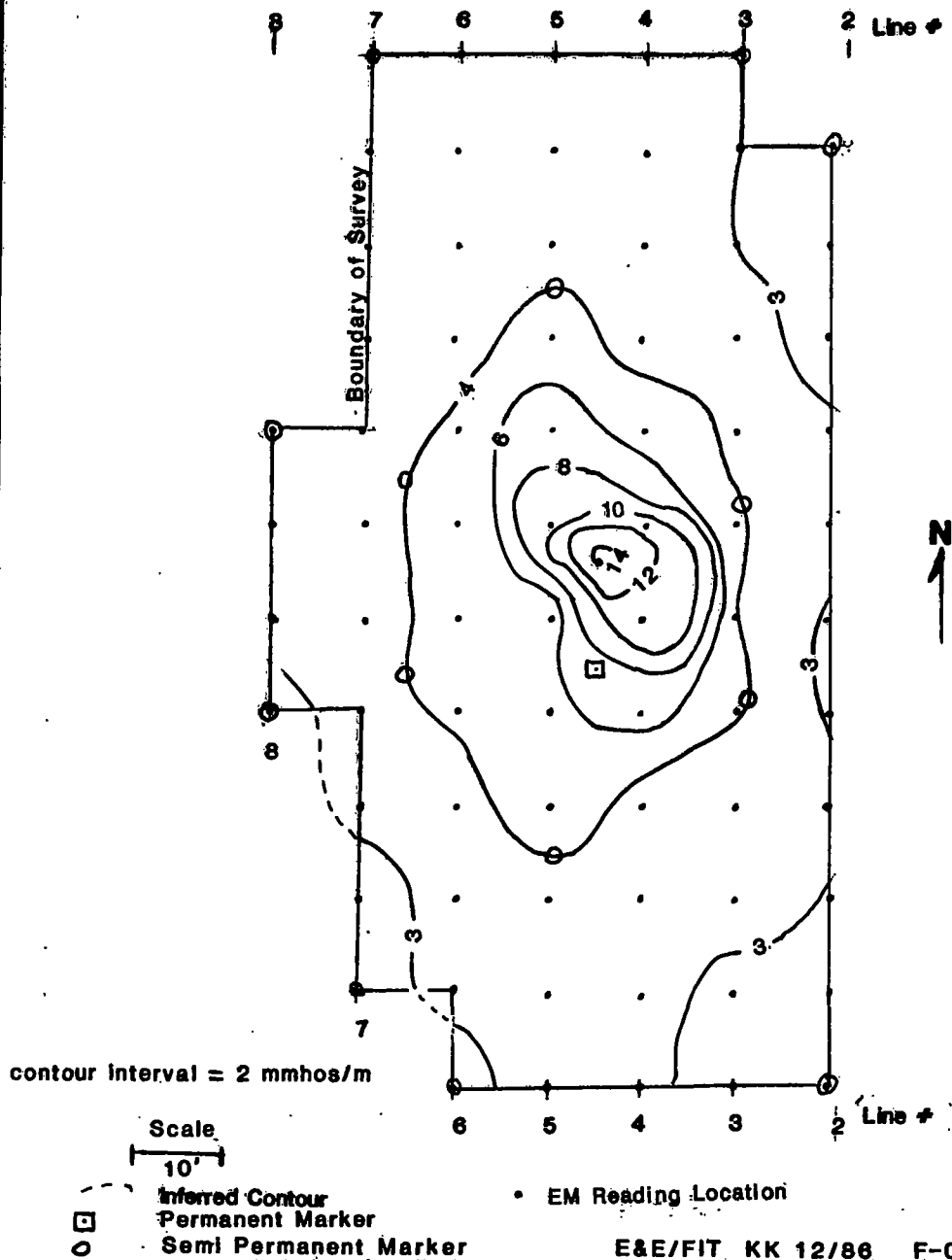
The MAG measures the magnetic field of the earth in gammas. Buried ferromagnetic objects disturb the earth's natural magnetic field and can therefore, be detected. Generally, a negative magnetic anomaly occurs north of a buried metal object that is oriented east-west, and a positive anomaly occurs south of the object, in mid-latitude areas. In most cases, the main mass (or object) is located in the area of greatest change in the magnetic field (highest gradient).

The results of the EM and MAG surveys performed at the Nebraska National Forest Site #1 are presented in Figures 2 and 3. A positive EM anomaly that centers approximately 10 to 15 feet north of the permanent marker present at the site was detected. The EM anomaly corresponds with MAG anomalies.

Contour intervals for the EM and MAG data plots were 2 mmhos/m and 100 gammas, respectively. The relatively low intensity of the EM anomaly is due to several factors, the arid condition of the site, the sandy soil found in the area, and the relatively small amount of metal thought to remain after 16 years of burial in very permeable sands.

Figure 2
Nebraska National Forest Site # 1
Halsey, Nebraska

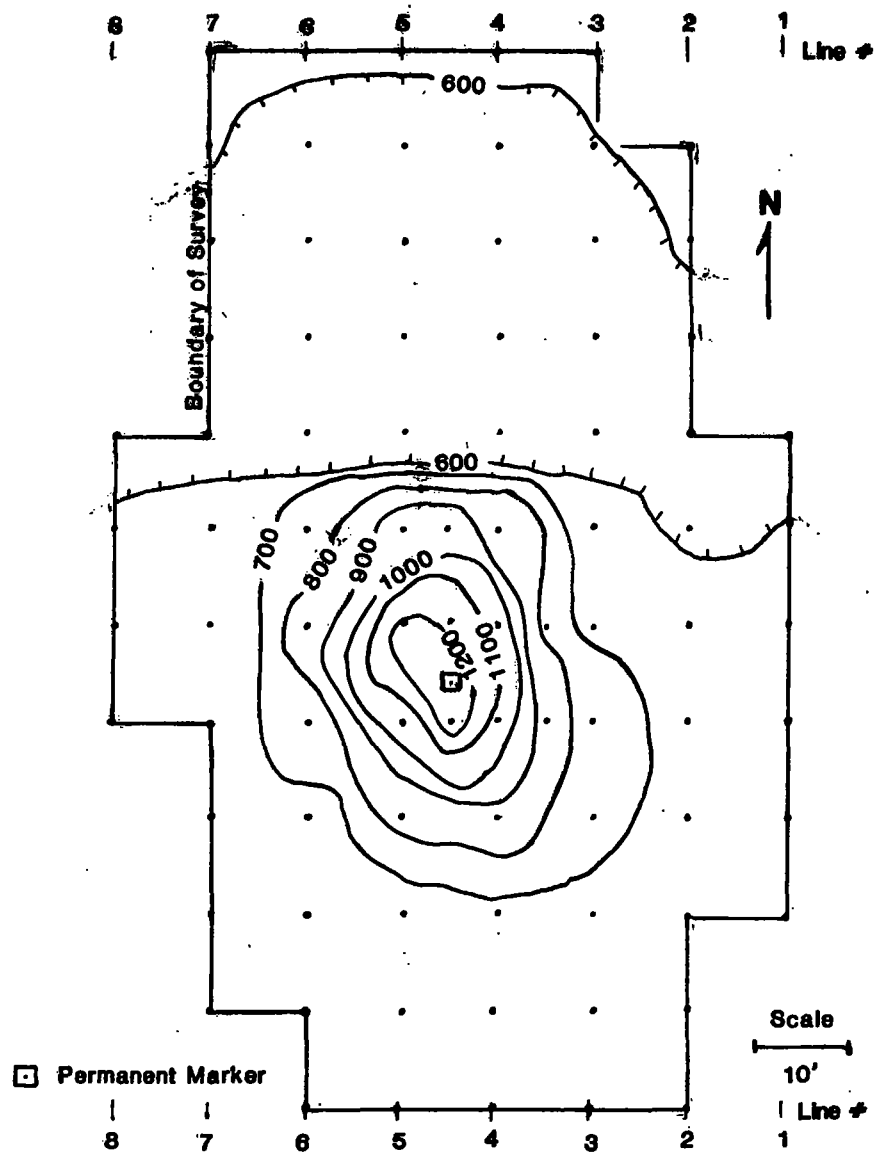
EM - 31 Survey
 (mmhos/M)
 (8 meter effective exploration depth)



**Nebraska National Forest Site #1
Halsey, Nebraska**

Magnetometer Survey

(Gammae + 56,000)
(8 foot sensor height)



Contour Interval = 100 gammas
• Magnetometer Reading Location

F-07-8611-69

E&E/FIT KK 12/86

A metal detector sweep also was performed over the previously surveyed area in an attempt to detect small containers that might be located away from the main burial unit. This survey did not reveal any anomalies.

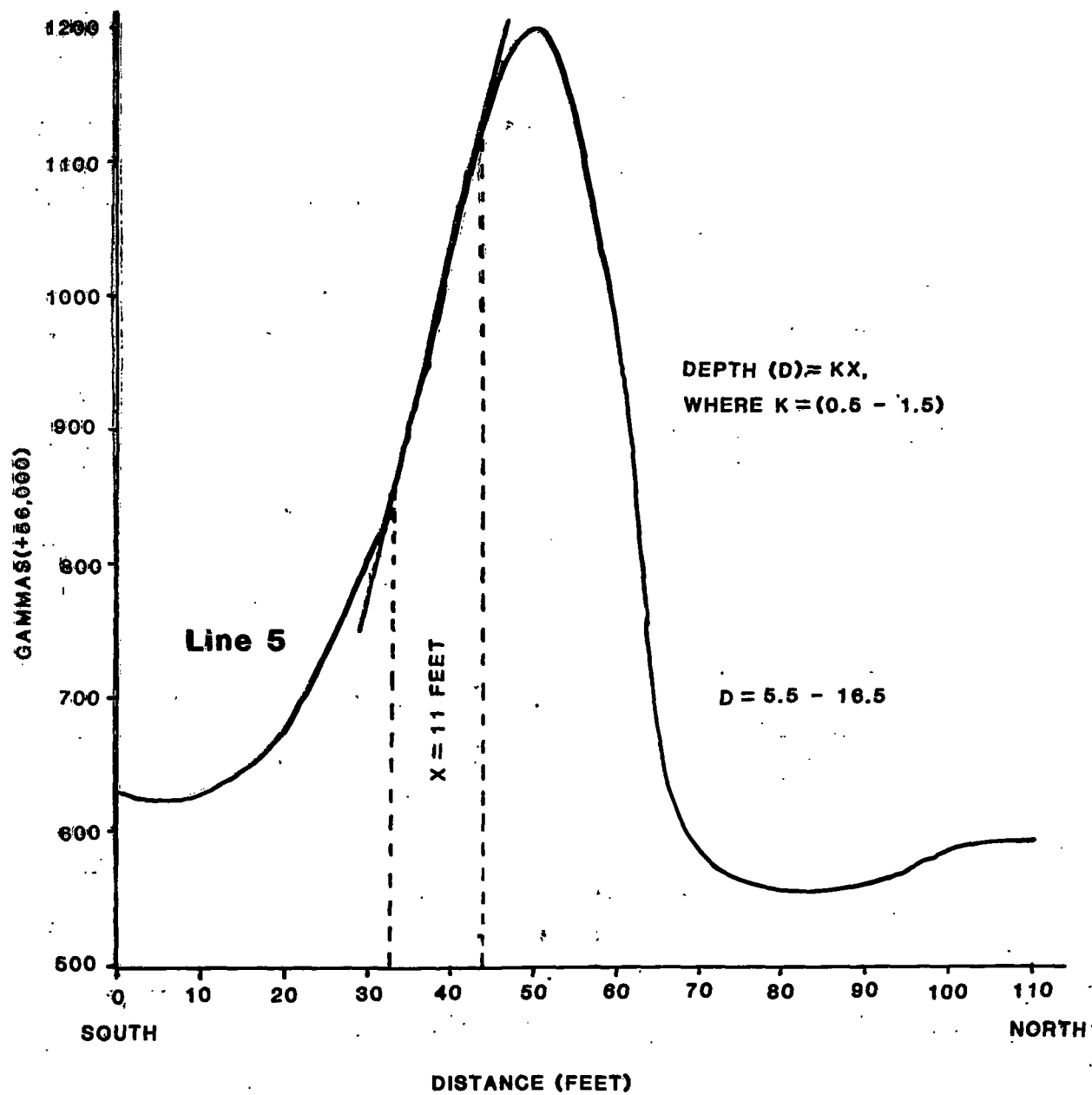
If future subsurface sampling or excavation of the buried materials is performed at this site, it was determined that the 4 mmhos/m contour (Figure 2) could be used as a guide to represent the "safe" distance for exploration in the area. It is expected that no buried containers would be encountered in excavating along this contour. Figure 4 shows the probable depth at which the containers are buried, based upon a MAG profile of the anomalous area. The depth estimation is derived using a slope equation where the depth (d) equals the distance between the steepest slope (x) measured from the line profile, multiplied by an empirically derived constant (k) which ranges from 0.5 to 1.5. The resulting equation is : $d = kx$ where $k = 0.5$ to 1.5 (Figure 4). Figure 4 shows the probable depth at which the containers are buried, a range of 5.5 to 16.5 feet. In general, the lower end of the range is thought to reflect the more accurate estimation of depth. This depth estimation correlates well with the forest service estimate of 6 feet (Ref. 7).

6.2 GROUND WATER SAMPLING

Ground water samples were collected from the outflow pipes of three windmill-powered livestock wells that surround the site: well #79 (I097X001), #199 (I097X002), and #218 (I097X004). The wells empty from a side discharge pipe, usually into large stock tanks. Most of the well outflow pipes had been disconnected for the winter (to prevent freeze damage) and so had to be reconnected for sampling purposes. Before sampling, the well was

Figure 4
Nebraska National Forest Site # 1
Halsey, Nebraska

Approximate Depth of Burial Unit



reattached to the windmill, if necessary, and the well allowed to pump water for a short period of time (10 to 15 minutes). Well sample locations are shown on Figure 1 . A downgradient and background sediment sample also was collected from the Dismal River (Figure 1). The Dismal River is thought to recharge almost entirely from the Ogallala aquifer that underlies the site. Both samples were collected with a stainless steel spoon, homogenized in a disposable aluminum pan, and placed in sample containers. The sediment and ground water samples both were submitted for volatile organic and pesticide fraction analyses. Well specifications are presented in Table 1 and a sample summary is presented in Table 2.

Table 1
STOCK WELLS SAMPLED AT
THE NEBRASKA NATIONAL FOREST SITE #1
December, 1986

<u>Well #</u>	<u>Location</u>	<u>Well Casing</u>	<u>Total Depth</u>	<u>Water Level</u>	<u>Aquifer</u>
79	Sec. 3, T.21N., R.26W.	81' X 2 1/2"	90'	77'	-----
199	NE 1/4 Sec. 9 T.21N., R.26W	93' X 2 "	101'	53'	gravel
218	Sec. 12, T.21N., R.26W.	3" diameter	unknown	unknown	gravel

Table 2
SAMPLE SUMMARY
NEBRASKA NATIONAL FOREST SITE #1
December, 1986

<u>Sample Number</u>	<u>Matrix</u>	<u>Location</u>	<u>Date Sampled</u>	<u>Requested Analyses</u>
I097X001	Water	Well #79, Sec. 3 T.21N., R.26W. (Located NE of Site #1)	12/2/86	BNA, VOA
I097X002	Water	Well #199, NE 1/4 Sec. 9, T.21N., R.26W. (Located Just West of site #1)	12/2/86	BNA, VOA
IK97X003F	Water	Field Blank	12/3/86	BNA, VOA
IK97X004	Water	Well #218, Sec. 12, T.21N., R.26W., (Located SE of Site #1)	12/4/86	BNA, VOA
I097X005	Sediment	Sediment From North Bank of The Dismal River Sec. 22, T.21N. R.26W.	12/3/86	BNA, VOA
I097X006	Sediment	Background Sediment from North Bank of the Dismal River Sec. 19, T.21N., R.26W.	12/4/86	BNA, VOA

SECTION 7: ANALYTICAL RESULTS

The analytical results of ground water samples collected showed no volatile or pesticide compounds present, with the exception of the field blank. Both methylene chloride and acetone were detected in the field blank sample at concentrations of 19.0 ppb and 11.0 J ppb, respectively. The "J" coded value indicates an estimated value. The detection of these compounds is probably due to laboratory contamination. Traces of two volatile compounds, 1,1,dichloroethane (DCA) and 1,1,1 trichloroethane (TCA), were found in both sediment samples at the following concentrations (values in parts per billion ppb):

	<u>1.1 DCA</u>	<u>1.1.1.TCA</u>
Background Sediment		
#I097X006	3.0M	2.0M
Downgradient Sediment		
#I097X005	2.0M	4.0M

The "M" code indicated that the compound was qualitatively identified; however, the quantitative value is less than the detection limit. Sources of the trace ammounts of these two compounds is unknown but are not thought to be related to the on-site pesticide disposal area. There is no reported burial of these substances at the site. Also, the downgradient sample does not contain significantly higher concentrations than the background sample. A complete laboratory data transmittal is included as Appendix B.

SECTION 8: CONCLUSIONS

A number of pesticide and other chemical compounds are known to have been buried in a remote section of the Nebraska National Forest. No volatile organic or pesticide compounds related to wastes known to have been disposed of at the site were detected in any of the livestock wells or sediment samples collected. The source of the trace amounts of chlorinated solvents in the sediment samples is unknown, but is not thought to be related to the pesticide burial area.

However, the geophysical survey indicated that there are wastes still present in the burial unit. It is not known whether the presence of materials detected by the geophysical survey still contain any of the pesticides and chemicals that the Forest Service reported buried during the 1970s.

An updated Site Inspection Form (EPA Form 2070-13) is included as Appendix C.

SECTION 9: REFERENCES

1. U.S. Environmental Protection Agency CERCLA Files-Nebraska National Forest Site, Site ID # NE6122390010.
2. Reply letter to Forest Supervisor, Nebraska National Forest from James F. Torrence, Regional Forester; Subject: Bessey Chemical Dumps, March 24, 1986.
3. Soil Survey of Thomas County Nebraska, U.S. Department of Agriculture, Soil Conservation Service, August 1965.
4. Halsey Nebraska Quadrangle 15 Minute Series Topographic Map, U.S. Geological Survey, 1948.
5. Dunes on the Plains - The Sand Hills Region of Nebraska, Resource Report No. 4, C.F. Keech and Ray Bentall, U.S. Geological Survey, Lincoln, Nebraska, March 1982.
6. Wetland Inventories of Nebraska's Sandhills, Resource Report No. 9, Donald C. Rundquist, Nebraska Remote Sensing Center, Conservation and Survey Division Institute of Agriculture and Natural Resources, The University of Nebraska, Lincoln, July 1983.
7. Applications Manual for Portable Magnetometers, S. Breiner, GeoMetrics, 1973.
8. Farm Chemicals Handbook, Meister Pub., 1982.
9. Handbook of Toxic and Hazardous Chemicals and Carcinogens, Second Ed., Marshall Sittig, 1985.

Appendix A
Site Photograph

Appendix A
ECOLOGY & ENVIRONMENT, INC.
PHOTOGRAPHIC RECORD

SITE

Nebraska National Forest Site #1

No.: 1

Subject

Disposal area,
note-permanent
metal sign at
arrow.

Photographer

K. Koth

Witness

S. Martin

Date/Time

12/86

Direction

Looking north



No.:

Subject

Photographer

Witness

Date/Time

Direction

END OF PHOTOGRAPHIC RECORD

Appendix B
EPA Data Transmittal



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

DATE: 2-6-87

MEMORANDUM

SUBJECT: NEBRASKA NATIONAL FOREST SITE #1

FROM: Charles P. Hensley *CPH*
Chief, EP&R/ENSV

TO: Robert L. Morby
Chief, SPFD/WSTM

Attached for your review is:

- ☒ Data Transmittal
- ☐ Work Plan
- ☐ Trip Report
- ☐ Preliminary Assessment
- ☐ HRS Form with Supporting Documentation
- ☐ Draft HRS Summary Form
- ☐

If you have any questions or comments, please contact Paul Doherty at 236-3888.

Attachments

- cc: ☒ E&E ✓
- ☐ LABO
 - ☐ EP&R
 - ☐ SPFD
 - ☐ TOPE
 - ☐ RCRA
 - ☐

RECEIVED

FEB 11 1987 ✓

E&E K.C.K.

John C. Wicklund
John C. Wicklund
Director, ENSV



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

Date: 2/3/87

MEMORANDUM

SUBJECT: Data Transmittal for Activity #: I097X,
Site Description: NE National Forest Site #1

FROM: Robert D. Kleopfer, Ph.D. *RDK*
Acting Chief, Laboratory Branch, ENSV

TO: Charles P. Hensley
Acting Chief, Emergency Planning and Response Branch, ENSV

ATTN: _____

Attached is the data transmittal for the above referenced site.

This should be considered a Partial Corrected ☒ Complete
data transmittal (completes transmittal of _____). If you
have any questions or comments, please contact D. Simmons at 236-3881.

Attachments

cc: Data File

EPA REGION VII
DATA QUALIFICATION CODES

- U - Compound was not detected.
- M - Compound was qualitatively identified; however, quantitative value is less than contract required detection limits (CLP data); or value is less than limit of quantitation (EPA data).
- J - Compound was qualitatively identified; however, compound failed to meet all QA criteria and therefore is only an estimated value.
- I - Analysis attempted, but no results can be reported.
- O - Sample lost or not analyzed.
- L - Value known to be higher than value reported.

```

-----
: Site Name: NEBRASKA NATL. FOREST SITE #1      Site Number:      :
: Location: HALSEY NEBRASKA                      Site Code:       :
-----

```

Sample Number: I097X001 SMO #:

: Sample Split (circle one): YES NO :

1000

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII

ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: NEBRASKA NATL. FOREST SITE #1

Site Number:

Location: HALSEY NEBRASKA

Site Code:

Collected: YR: 86 MO: 12 Day: 2 Time: 1010 Leader: K. KOTH

Sample Number: I097X002

SMD #:

Sample Media (circle one):

SOIL, DUST, RINSATE, SEDIMENT, (WATER,) OTHER: _____

Sample Split (circle one): YES

NO

Sample Container : Tag Color : Preservative : Analysis Requested

1 - 80oz JUG : PURPLE : ICED : PESTICIDES

2-40ml VIALS : LIME : ICED : VOA

Depth: Pan #: Aliquots:

Samplers: S. MARTIN

K. ROTH

COMMENTS OF FIELD PERSONNEL

Site Description: STOCK WELL # 199

IBM-PC

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII

ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: NEBRASKA NATL. FOREST SITE #1

Site Number:

Location: HALSEY NEBRASKA

Site Code:

Collected: YR: 86 MO: 12 Day: 3 Time: 1500 Leader: K. KOTH

Sample Number: I097X003F

SMD #:

Sample Media (circle one):

SOIL, DUST, RINSATE, SEDIMENT, (WATER,) OTHER: _____

Sample Split (circle one): YES ☒ NO ☐

NO

Sample Container : Tag Color : Preservative : Analysis Requested

1 - 800z JUG

PURPLE

ICED

PESTICIDES

2-40ml VIALS

LIME

ICED

VOA

Depth:

Par #: _____

Aliquots: _____

Samplers: ~~XXXXXXXXXX~~

K. LOTH

COMMENTS OF FIELD PERSONNEL

Site Description:

FIELD BLANK (TRIP BLANK)

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-----
: Site Name: NEBRASKA NATL. FOREST SITE #1      Site Number:      :
: Location: HALSEY  NEBRASKA                    Site Code:       :
-----
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Collected: YR: 86 MD: 12 Day: 4 Time: 1000 Leader: K. KOTH
Sample Number: I097X004 SMD #:
Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER OTHER: _____
Sample Split (circle one): YES NO

: Sample Container : Tag Color : Preservative : Analysis Requested :

[illegible]

Depth: _____ Pan #: _____ Aliquots: _____
 Samplers: S. MARTIN
R. KOTH

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:
: Site Description:      STOCK WELL #218
:
:
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: Site Name: NEBRASKA NATL. FOREST SITE #1      Site Number:
: Location:  HALSEY NEBRASKA                    Site Code:

```

Collected: YR: 86 MO: 12 Day: 3 Time: 1030 Leader: K. KOTH

Sample Number: I097X005 SMO #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER: _____

Sample Split (circle one): YES NO

[illegible]

Depth: 0-6" Pan #: Aliquots: 4
Samplers: S. MARTIN
K. KOTH

Site Description: SEDIMENT FROM DISMAL RIVER - BELOW SITE, SECTION 22.

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-----
: Site Name: NEBRASKA NATL. FOREST SITE #1      Site Number:      :
: Location: HALSEY NEBRASKA                     Site Code:       :
-----

```

Collected: YR: 86 MO: 12 Day: 4 Time: 1030 Leader: K. KOTH
Sample Number: I097X006 SMD #:
Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER: _____
Sample Split (circle one): YES NO

[illegible]

Site Description: BACKGROUND SEDIMENT FROM THE OJUAL RIVER,
SECTION 19.

ANALYSIS TYPE: VOLATILE ANALYSES

TITLE: NE NAT'L FOREST SITE #1
 LAB: IT CERRITOS
 SAMPLE PREP:----- ANALYST/ENTRY: E63

MATRIX: WATER
 METHOD: 9302M01
 REVIEWER: *ACS*

UNITS: UG/L
 CASE: 6626
 DATE: 01/22/87

SAMPLE NUMBERS

COMPOUND	I097X001		I097X002		I097X003F		I097X004	
CHLOROMETHANE	10.0	U	10.0	U	10.0	U	10.0	U
BROMOMETHANE	10.0	U	10.0	U	10.0	U	10.0	U
VINYL CHLORIDE	10.0	U	10.0	U	10.0	U	10.0	U
CHLOROETHANE	10.0	U	10.0	U	10.0	U	10.0	U
METHYLENE CHLORIDE	7.00	U	5.00	U	19.0		5.00	U
ACETONE	10.0	U	10.0	U	11.0	J	10.0	U
CARBON DISULFIDE	5.00	U	5.00	U	5.00	U	5.00	U
1,1 DICHLOROETHENE	5.00	U	5.00	U	5.00	U	5.00	U
1,1 DICHLOROETHANE	5.00	U	5.00	U	5.00	U	5.00	U
TRANS-1,2,-DICHLOROETHENE	5.00	U	5.00	U	5.00	U	5.00	U
CHLOROFORM	5.00	U	5.00	U	5.00	U	5.00	U
1,2,DICHLOROETHANE	5.00	U	5.00	U	5.00	U	5.00	U
2-BUTANONE		I		I		I		I
1,1,1 TRICHLOROETHANE	5.00	U	5.00	U	5.00	U	5.00	U
CARBON TETRACHLORIDE	5.00	U	5.00	U	5.00	U	5.00	U
VINYL ACETATE	10.0	U	10.0	U	10.0	U	10.0	U
BROMODICHLOROMETHANE	5.00	U	5.00	U	5.00	U	5.00	U
1,1,2,2,-TETRACHLOROETHANE	5.00	U	5.00	U	5.00	U	5.00	U
1,2-DICHLOROPROPANE	5.00	U	5.00	U	5.00	U	5.00	U
TRANS-1,3-DICHLOROPROPENE	5.00	U	5.00	U	5.00	U	5.00	U
TRICHLOROETHENE	5.00	U	5.00	U	5.00	U	5.00	U
DIBROMOCHLOROMETHANE	5.00	U	5.00	U	5.00	U	5.00	U
1,1,2-TRICHLOROETHANE	5.00	U	5.00	U	5.00	U	5.00	U
BENZENE	5.00	U	5.00	U	5.00	U	5.00	U
CIS-1,3-DICHLOROPROPENE	5.00	U	5.00	U	5.00	U	5.00	U
2-CHLOROETHYL VINYL ETHER	10.0	U	10.0	U	10.0	U	10.0	U
BROMOFORM	5.00	U	5.00	U	5.00	U	5.00	U
2-HEXANONE	10.0	U	10.0	U	10.0	U	10.0	U
4-METHYL-2-PENTANONE	10.0	U	10.0	U	10.0	U	10.0	U
TETRACHLOROETHENE	5.00	U	5.00	U	5.00	U	5.00	U
TOLUENE	5.00	U	5.00	U	5.00	U	5.00	U
CHLOROBENZENE	5.00	U	5.00	U	5.00	U	5.00	U
ETHYL BENZENE	5.00	U	5.00	U	5.00	U	5.00	U
STYRENE	5.00	U	5.00	U	5.00	U	5.00	U
TOTAL XYLENES	5.00	U	5.00	U	5.00	U	5.00	U

ANALYSIS TYPE: VOLATILE ANALYSES

TITLE: NEB NATL FOREST #1

LAB: IT

SAMPLE PREP:----- ANALYST/ENTRY: E34

MATRIX: SEDIMENT

METHOD: 9001M06

REVIEWER: *[Signature]*

UNITS: UG/KG

CASE: 6626

DATE: 01/13/87

SAMPLE NUMBERS

I097X005

I097X006

COMPOUND

CHLOROMETHANE	15.0	U	15.0	U
BROMOMETHANE	15.0	U	15.0	U
VINYL CHLORIDE	15.0	U	15.0	U
CHLOROETHANE	15.0	U	15.0	U
METHYLENE CHLORIDE	20.0	U	30.0	U
ACETONE	25.0	U	27.0	U
CARBON DISULFIDE	7.30	U	7.40	U
1,1 DICHLOROETHENE	7.30	U	7.40	U
1,1 DICHLOROETHANE	2.00	M	3.00	M
TRANS-1,2,-DICHLOROETHENE	7.30	U	7.40	U
CHLOROFORM	7.30	U	7.40	U
1,2,DICHLOROETHANE	7.30	U	7.40	U
2-BUTANONE	15.0	U	15.0	U
1,1,1 TRICHLOROETHANE	4.00	M	6.00	M
CARBON TETRACHLORIDE	7.30	U	7.40	U
VINYL ACETATE	15.0	U	15.0	U
BROMODICHLOROMETHANE	7.30	U	7.40	U
1,1,2,2,-TETRACHLOROETHANE	7.30	U	7.40	U
1,2-DICHLOROPROPANE	7.30	U	7.40	U
TRANS-1,3-DICHLOROPROPENE	7.30	U	7.40	U
TRICHLOROETHENE	7.30	U	7.40	U
DIBROMOCHLOROMETHANE	7.30	U	7.40	U
1,1,2-TRICHLOROETHANE	7.30	U	7.40	U
BENZENE	7.30	U	7.40	U
CIS-1,3-DICHLOROPROPENE	7.30	U	7.40	U
2-CHLOROETHYL VINYL ETHER	15.0	U	15.0	U
BROMOFORM	7.30	U	7.40	U
2-HEXANONE	15.0	U	15.0	U
4-METHYL-2-PENTANONE	15.0	U	15.0	U
TETRACHLOROETHENE	7.30	U	7.40	U
TOLUENE	7.30	U	7.40	U
CHLOROBENZENE	7.30	U	7.40	U
ETHYL BENZENE	7.30	U	7.40	U
STYRENE	7.30	U	7.40	U
TOTAL XYLENES	7.30	U	7.40	U

ANALYSIS TYPE: PESTICIDES

TITLE: NE NAT'L FOREST #1

LAB: IT CERRITOS

SAMPLE PREP:----- ANALYST/ENTRY: E64

MATRIX: WATER

METHOD: 9302M01

REVIEWER: *CS*

UNITS: UG/L

CASE: 6626

DATE: 01/22/87

SAMPLE NUMBERS

COMPOUND	I097X001		I097X002		I097X003F		I097X004	
ALPHA-BHC	0.05	U	0.05	U	0.05	U	0.05	U
BETA-BHC	0.05	U	0.05	U	0.05	U	0.05	U
DELTA-BHC	0.05	U	0.05	U	0.05	U	0.05	U
GAMMA-BHC	0.05	U	0.05	U	0.05	U	0.05	U
HEPTACHLOR	0.05	U	0.05	U	0.05	U	0.05	U
ALDRIN	0.05	U	0.05	U	0.05	U	0.05	U
HEPTACHLOR EPOXIDE	0.05	U	0.05	U	0.05	U	0.05	U
ENDOSULFAN I	0.05	U	0.05	U	0.05	U	0.05	U
DIELDRIN	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U
ENDRIN	0.1	U	0.1	U	0.1	U	0.1	U
ENDOSULFAN II	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDD	0.1	U	0.1	U	0.1	U	0.1	U
ENDRIN ALDEHYDE	0.1	U	0.1	U	0.1	U	0.1	U
ENDOSULFAN SULFATE	0.1	U	0.1	U	0.1	U	0.1	U
4,4'-DDT	0.1	U	0.1	U	0.1	U	0.1	U
ENDRIN KETONE	0.1	U	0.1	U	0.1	U	0.1	U
METHOXYCHLOR	0.5	U	0.5	U	0.5	U	0.5	U
CHLORDANE	0.5	U	0.5	U	0.5	U	0.5	U
TOXAPHENE	1.00	U	1.00	U	1.00	U	1.00	U
AROCLOR-1016	0.5	U	0.5	U	0.5	U	0.5	U
AROCLOR-1221	0.5	U	0.5	U	0.5	U	0.5	U
AROCLOR-1232	0.5	U	0.5	U	0.5	U	0.5	U
AROCLOR-1242	0.5	U	0.5	U	0.5	U	0.5	U
AROCLOR-1248	0.5	U	0.5	U	0.5	U	0.5	U
AROCLOR-1254	1.00	U	1.00	U	1.00	U	1.00	U
AROCLOR-1260	1.00	U	1.00	U	1.00	U	1.00	U

ANALYSIS TYPE: PESTICIDES

TITLE: NEB NATL FOREST #1

LAB: IT

SAMPLE PREP:----- ANALYST/ENTRY: E35

MATRIX: SEDIMENT

METHOD: 9001M06

REVIEWER: *ACH*-----

UNITS: UG/KG

CASE: 6626

DATE: 01/13/87

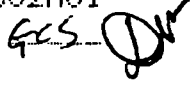
SAMPLE NUMBERS

I097X005

I097X006

COMPOUND

ALPHA-BHC	11.0	U	11.0	U
BETA-BHC	11.0	U	11.0	U
DELTA-BHC	11.0	U	11.0	U
GAMMA-BHC	11.0	U	11.0	U
HEPTACHLOR	11.0	U	11.0	U
ALDRIN	11.0	U	11.0	U
HEPTACHLOR EPOXIDE	11.0	U	11.0	U
ENDOSULFAN I	11.0	U	11.0	U
DIELDRIN	22.0	U	22.0	U
4,4'-DDE	22.0	U	22.0	U
ENDRIN	22.0	U	22.0	U
ENDOSULFAN II	22.0	U	22.0	U
4,4'-DDD	22.0	U	22.0	U
ENDRIN ALDEHYDE	22.0	U	22.0	U
ENDOSULFAN SULFATE	22.0	U	22.0	U
4,4'-DDT	22.0	U	22.0	U
ENDRIN KETONE	22.0	U	22.0	U
METHOXYCHLOR	110	U	110	U
CHLORDANE	110	U	110	U
TOXAPHENE	220	U	220	U
AROCLOR-1016	110	U	110	U
AROCLOR-1221	110	U	110	U
AROCLOR-1232	110	U	110	U
AROCLOR-1242	110	U	110	U
AROCLOR-1248	110	U	110	U
AROCLOR-1254	220	U	220	U
AROCLOR-1260	220	U	220	U

TITLE: NE NAT'L FOREST #1 MATRIX: WATER UNITS: UG/L
LAB: IT CERRITOS METHOD: 9302M01 CASE: 6626
ANALYST/ENTRY: GCS REVIEWER: GCS  DATE: 01/22/87

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.	COMPOUND NAME**	FRACTION	EST.	CONC.*
I097X001	NOTHING SIGNIFICANT FOUND	VOA		
I097X002	NOTHING SIGNIFICANT FOUND	VOA		
I097X003F	NOTHING SIGNIFICANT FOUND	VOA		
I097X004	NOTHING SIGNIFICANT FOUND	VOA		

*This is a crude estimation based on response relative to an internal standard. An authentic standard has not been run.

**The compounds were identified using a library search routine. Authentic standards have not been analyzed to verify compound mass spectra and retention times.

TITLE: NEB NATL FOREST #1 MATRIX: SEDIMENT UNITS: UG/KG
LAB: IT METHOD: 9001M06 CASE: 6626
ANALYST/ENTRY: LT REVIEWER: BGM DATE: 1-13-87

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.	COMPOUND NAME**	FRACTION	EST.	CONC.*
I097X006	NOTHING SIGNIFICANT FOUND	VOA		
I097X005	UNKNOWN	VOA	200	J

*This is a crude estimation based on response relative to an internal standard. An authentic standard has not been run.

**The compounds were identified using a library search routine. Authentic standards have not been analyzed to verify compound mass spectra and retention times.

Case No.: 6626

Laboratory: IT

Contract No.: 68-01-6962

Method No.: 9302M01

SMO No.: GD429-430

EPA No.: 1097X

Site: Nebraska Nat'l Forest #1

Matrix: Soil

We have reviewed the above case. The following are our findings:

1. Analysis was performed on a set of two soil samples for volatiles and pesticides.
2. Methylene chloride, Acetone and Toluene were found in the blanks. The blank rules were used to qualify the associated data.
3. Several compounds were outside of data review control limits in the initial and continuing calibrations. This did not, however, result in the qualification of data.
4. There were no field blanks nor performance evaluation samples included with this set.

Appendix C

Updated SI Form

Updated Form



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
STATE NE SITE NUMBER 6122390010

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common or descriptive name of site) Nebraska National Forest Site #1		02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER Bessey Ranger District P. O. Box 38	
03 CITY Halsey		04 STATE NE	05 ZIP CODE 69142
		06 COUNTY Thomas	
09 COORDINATES LATITUDE 41° 40' 22" N LONGITUDE 099° 12' 11" W		10 TYPE OF OWNERSHIP (Check one) <input type="checkbox"/> A PRIVATE <input checked="" type="checkbox"/> B FEDERAL <u>USDA</u> <input type="checkbox"/> C STATE <input type="checkbox"/> D COUNTY <input type="checkbox"/> E MUNICIPAL <input type="checkbox"/> F OTHER <input type="checkbox"/> G UNKNOWN	

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 12 / 02 / 87 MONTH DAY YEAR		02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE		03 YEARS OF OPERATION 1970 1970 BEGINNING YEAR ENDING YEAR		UNKNOWN	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A EPA <input checked="" type="checkbox"/> B EPA CONTRACTOR <u>E & E / Fit</u> <input type="checkbox"/> C MUNICIPAL <input type="checkbox"/> D MUNICIPAL CONTRACTOR <input type="checkbox"/> E STATE <input type="checkbox"/> F STATE CONTRACTOR <input type="checkbox"/> G OTHER							
05 CHIEF INSPECTOR Karen Koth		06 TITLE Site Leader		07 ORGANIZATION E & E/FIT		08 TELEPHONE NO. (913) 432-9961	
09 OTHER INSPECTORS Sharon Martin		10 TITLE		11 ORGANIZATION E & E/FIT		12 TELEPHONE NO. (913) 432-9961	
						()	
						()	
						()	
						()	
						()	
13 SITE REPRESENTATIVES INTERVIEWED Mack Deveraux		14 TITLE Dist Ranger		15 ADDRESS See above		16 TELEPHONE NO. (308) 533-2251	
Jerry Teahon				"		(308) 533-2251	
						()	
						()	
						()	
						()	
						()	
17 ACCESS GAINED BY (Check one) <input type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT		18 TIME OF INSPECTION		19 WEATHER CONDITIONS			

IV. INFORMATION AVAILABLE FROM

01 CONTACT Mack Deveraux		02 OF (Agency, Organization) See above		03 TELEPHONE NO. (308) 533-2251	
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Karen Koth		05 AGENCY E&E	06 ORGANIZATION FIT	07 TELEPHONE NO. 913/432-9961	08 DATE 8/28/87 MONTH DAY YEAR



03 WASTE CHARACTERISTICS (Check all that apply)

<input checked="" type="checkbox"/> A TOXIC	<input checked="" type="checkbox"/> F SOLUBLE	<input type="checkbox"/> I HIGHLY VOLATILE
<input type="checkbox"/> B CORROSIVE	<input type="checkbox"/> G INFECTIOUS	<input type="checkbox"/> J EXPLOSIVE
<input type="checkbox"/> C RADIOACTIVE	<input type="checkbox"/> H FLAMMABLE	<input type="checkbox"/> K REACTIVE
<input checked="" type="checkbox"/> D PERSISTENT	<input type="checkbox"/> M IGNITABLE	<input type="checkbox"/> L INCOMPATIBLE
		<input type="checkbox"/> N NOT APPLICABLE

EPA FORM 2070-13 (7-81)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NE 6122390010

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

No Population w/in 3 miles of the site other than cattle which rely on local stockwells for a seasonal water supply. The stock wells draw from Ogallala aquifer ~70 feet below the ground surface.

01 ☐ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

The Dismal River is located approximately 2 Miles south of the site. There is no overland migration path present from the site to the river; however, the Dismal is recharged by the Ogallalla aquifer beneath the site.

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None Known

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None Known

01 ☐ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

The site is in a remote area of the National Forest. The only persons potentially affected are forest service employees or transient hunters/hikers.

01 ☐ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: < 1

(Acres)

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

Wastes were placed in a sand blowout

01 ☐ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

The closest downgradient drinking water well is located approximately 12 miles to the south in the town of Dunning.

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None known, there are 12-70 persons employed at the Bessey Ranger District of the National Forest. This number varies seasonally.

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None known



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1 IDENTIFICATION
CITY STATE COUNTY SITE NUMBER
NE 6122390010

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
No population w/i 3 miles of the site other than cattle which rely on local stockwells for a seasonal water supply. The stock wells draw from the Ogallala aquifer ~ 70 feet below the ground surface.

01 ☐ B SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
The Dismal River is located approximately 2 miles south of the site. There is no overland migration path present from the site to the river; however, the Dismal is recharged by the Ogallala aquifer beneath the site.

01 ☐ C CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
None known

01 ☐ D FIRE EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
None known

01 ☐ E DIRECT CONTACT 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
The site is in a remote area of the National Forest. The only persons potentially affected are forest service employees or transient hunters/hikers.

01 ☐ F CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
Wastes were placed in a sand blowout

01 ☐ G DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
down gradient
The closest/drinking water well is located approximately 12 miles to the south in the town of Dunning

01 ☐ H WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
None known, there are 12-70 persons employed at the Bessey Ranger District of the National Forest. This number varies seasonally.

01 ☐ I POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
None known



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I IDENTIFICATION

01 STATE 02 SITE NUMBER
NE 6122390010

II HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

None known

01 ☐ K DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name of species)

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

None known

01 ☐ L CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

Unknown

01 ☐ M UNSTABLE CONTAINMENT OF WASTES
(Solid, liquid, or gaseous waste) (Include name of waste)
03 POPULATION POTENTIALLY AFFECTED _____

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Waste drums were apparently crushed causing leakage at the time of burial in 1970

01 ☐ N DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

None Known

01 ☐ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☐ P ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

See M. Above

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: See E. & H

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references e.g. State law, EPA analysis reports)

See Part 2, V1



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NE 6122390010

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	1646	gallons	<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	$\leq 1/8$ (Acres)
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

The 1646 gallons listed above, consists of: 25 55 gallon drums of lindane, 5-5 gallon jugs of sulfuric acid, 200-1 gallon pressurized cans of methyl bromide, 36-1 gallon cans of DDT(2%) and 10 gallons of malathion.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Wastes were crushed upon burial (Drums) and covered with approximately 6 feet of sand. The site is in a remote area of the forest and is marked with a permanent metal sign reading: "Danger Chemicals, 1970, 6 ft. down".

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO
02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

See Part 2, VI



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NE 6122390010

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	02 STATUS	03 DISTANCE TO SITE															
<table><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A. <input type="checkbox"/></td><td>B. <input checked="" type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C. <input type="checkbox"/></td><td>D. <input type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A. <input type="checkbox"/>	B. <input checked="" type="checkbox"/>	NON-COMMUNITY C. <input type="checkbox"/>	D. <input type="checkbox"/>	<table><tr><td>ENDANGERED</td><td>AFFECTED</td><td>MONITORED</td></tr><tr><td>A. <input type="checkbox"/></td><td>B. <input type="checkbox"/></td><td>C. <input type="checkbox"/></td></tr><tr><td>D. <input type="checkbox"/></td><td>E. <input type="checkbox"/></td><td>F. <input type="checkbox"/></td></tr></table>	ENDANGERED	AFFECTED	MONITORED	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	A. 8 (mi) B. (mi)
SURFACE	WELL																
COMMUNITY A. <input type="checkbox"/>	B. <input checked="" type="checkbox"/>																
NON-COMMUNITY C. <input type="checkbox"/>	D. <input type="checkbox"/>																
ENDANGERED	AFFECTED	MONITORED															
A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>															
D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>															

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)				
<input checked="" type="checkbox"/> A. ONLY SOURCE FOR DRINKING <input type="checkbox"/> B. DRINKING (Other sources available) COMMERCIAL INDUSTRIAL IRRIGATION (No other water sources available) <input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) <input type="checkbox"/> D. NOT USED, UNUSEABLE				
02 POPULATION SERVED BY GROUND WATER		03 DISTANCE TO NEAREST DRINKING WATER WELL 6 (mi)		
04 DEPTH TO GROUNDWATER ≈ 70 (ft)	05 DIRECTION OF GROUNDWATER FLOW South-Southeast	06 DEPTH TO AQUIFER OF CONCERN (ft)	07 POTENTIAL YIELD OF AQUIFER (gpd)	08 SOLE SOURCE AQUIFER <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)
A municipal well is located in the town of Halsey, NE located 8 miles north of the site (purported upgradient direction). The closest well in a downgradient direction from the site is located approximately 12 miles south of the site.

10 RECHARGE AREA	11 DISCHARGE AREA
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS The Ogallala aquifer beneath the site is thought to recharge the Dismal River, 2 miles south	<input type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)		
<input checked="" type="checkbox"/> A. RESERVOIR, RECREATION DRINKING WATER SOURCE <input type="checkbox"/> B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES <input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL <input type="checkbox"/> D. NOT CURRENTLY USED		
02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER		
NAME:	AFFECTED	DISTANCE TO SITE
Dismal River	<input type="checkbox"/>	2 (mi)
	<input type="checkbox"/>	(mi)
	<input type="checkbox"/>	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A. 0 NO. OF PERSONS	TWO (2) MILES OF SITE B. 0 NO. OF PERSONS	THREE (3) MILES OF SITE C. 0 NO. OF PERSONS	8 (mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE		04 DISTANCE TO NEAREST OFF-SITE BUILDING (mi)	
05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)			
No population W/in 3 miles of the site.			



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE NE 02 SITE NUMBER 6122390010

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-8} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

650 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

-22 (in)

07 ONE YEAR 24 HOUR RAINFALL

1.5-2 (in)

08 SLOPE

SITE SLOPE
0-3 %

DIRECTION OF SITE SLOPE
variable

TERRAIN AVERAGE SLOPE
very variable %

09 FLOOD POTENTIAL

SITE IS IN (none) YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. NA (mi)

B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: None known

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. _____ (mi)

B. 0 (mi)

C. _____ (mi) D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The disposal area is located within the National Forest. Wastes were deposited in a sand blowout caused by wind erosion forces. The disposal area itself is fairly flat. Access to the site is limited by a stand of young pine trees which make the site fairly inaccessible. A photograph of the burial site is contained in the Final Report (Follow Up Work) for the Nebraska National Forest Site #1, f-07-8703-13/FNE0011S8, E&E/FIT, 9-87.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

See Part 2, VI.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NE 6122390010

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATE DATE RESULTS AVAILABLE
GROUNDWATER	3	Region VII EP Lab - CLP	available
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	2	Region VII EP Lab - CLP	available
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Geophysical Survey	EM-31 and Magnetometer study delineated the <i>approximate</i> boundaries of the burial unit. See Final Report for the Nebraska National Forest Site #1 TDD # F-0708703-13 (FNE0011S8), E&E/FIT, 9-87.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>USEPA</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>USEPA, NE National Forest Offices, NE National Forest-Halsey NE</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references e.g. state files, bottom analysis, reports)

See Part 2 VI.



EPA FORM 2070-13 (7-81)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART B - OPERATOR INFORMATION

I IDENTIFICATION
01 STATE 02 SITE NUMBER
NE 6122390010

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (If applicable)			
01 NAME None		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					
III. PREVIOUS OPERATOR(S) (List most recent first. Provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)			
NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references to EPA, State, and other agency reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I IDENTIFICATION
01 STATE 02 SITE NUMBER
NE 6122390010

II. ON-SITE GENERATOR

01 NAME See current owner	02 D+B NUMBER
03 STREET ADDRESS (P O Box RFD # etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P O Box RFD # etc.)	04 SIC CODE	03 STREET ADDRESS (P O Box RFD # etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P O Box RFD # etc.)	04 SIC CODE	03 STREET ADDRESS (P O Box RFD # etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P O Box RFD # etc.)	04 SIC CODE	03 STREET ADDRESS (P O Box RFD # etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P O Box RFD # etc.)	04 SIC CODE	03 STREET ADDRESS (P O Box RFD # etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (List specific references to all data sources used in preparing this report)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NE 6122390010

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A WATER SUPPLY CLOSED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D SPILLED MATERIAL REMOVED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> E CONTAMINATED SOIL REMOVED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> F WASTE REPACKAGED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G WASTE DISPOSED ELSEWHERE 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> H ON SITE BURIAL 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I IN SITU CHEMICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K IN SITU PHYSICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L ENCAPSULATION 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M EMERGENCY WASTE TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N CUTOFF WALLS 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P CUTOFF TRENCHES/SUMP 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q SUBSURFACE CUTOFF WALL 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NE	6122390010

II. PAST RESPONSE ACTIVITIES (Continue)

01 <input type="checkbox"/> R BARRIER WALLS CONSTRUCTED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> S CAPPING/COVERING 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> T BULK TANKAGE REPAIRED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> U GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> V BOTTOM SEALED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> W GAS CONTROL 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> X FIRE CONTROL 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Y LEACHATE TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Z AREA EVACUATED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 1 ACCESS TO SITE RESTRICTED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 2 POPULATION RELOCATED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 3 OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION None known	02 DATE _____	03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references, e.g., State Reg. Agency, previous reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I IDENTIFICATION	
01 STATE	02 SITE NUMBER
NE	6122390010

II ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL STATE LOCAL REGULATORY/ENFORCEMENT ACTION

None

III. SOURCES OF INFORMATION (Cite specific references, e.g., State Reg. Action Agency Reports)