GSE Engineering & Consulting, Inc.

LIMITED ENVIRONMENTAL SITE ASSESSMENT

NEWBERRY WWTF EXPANSION SITE
NEWBERRY, ALACHUA COUNTY, FLORIDA

GSE PROJECT NO. 16024A

Prepared For:

CHW PROFESSIONAL CONSULTANTS, INC.

JULY 2023

GSE Engineering & Consulting, Inc.

July 3, 2023

Robert Walpole, P.E.
CHW Professional Consultants, Inc.
11801 Research Drive
Alachua, Florida 32615

Report of a Limited Environmental Site Assessment
Newberry WWTF Expansion Site
Newberry, Alachua County, Florida
GSE Project No. 16024A

GSE Engineering & Consulting, Inc. (GSE) is pleased to submit this Limited Environmental Site Assessment (LESA) for the Wastewater Treatment Facility (WWTF) Expansion Site in Newberry, Alachua County, Florida.

Our services were completed consistent with the scope of services outlined in GSE Proposal No. 2023-174A dated May 11, 2023. You provided authorization for these services.

We appreciate the opportunity to be of assistance with this important matter. If you have any questions concerning the contents of this report, need clarification, or if we may be of further assistance, please contact us.

Sincerely,

GSE Engineering & Consulting, Inc.

Collin P. Goodwin, E.I.
Staff Engineer

JOAKIM B. NORDQVIST
LICENSE
No. 42681
STATE OF FLORIDA
PROFESSIONAL ENGINEER

This item has been digitally signed and sealed by

on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Principal Engineer
Florida Registration Number 42681

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EXECUTIVE SUMMARY

GSE has completed a Limited Environmental Site Assessment (LESA) for the Newbery WWTF Expansion site. The project area is generally located northeast of the SW 266 Street and SW 30th Avenue intersection.

The City of Newberry is developing an industrial park and expanding the existing WWTF. The project is in the planning phase. Alachua County has expressed interest in developing up to 15 acres on the western portion of the planned industrial park site.

As part of the due diligence evaluation, Alachua County raised concerns related to a site referred to as the North Florida Crop Dusting (NFCD) site, which represents a former airfield and operation to the north of the area being considered by County. The area was historically operated as a base for agrochemical aerial spraying. The site is listed under the Florida Department Environmental Protection (FDEP) Facility ID ERIC_8857 as the *North Florida Crop Dusting* site.

According to a 1985 Florida Department of Agriculture and Consumer Services (FDACS) report, pesticide rinsate generated during cleaning of the airplane tanks was discharged to an unlined pit and ground surface at the NFCD airfield site. Six areas of visibly impacted soil and/or stressed vegetation were noted. The FDACS investigation identified high concentrations of pesticides in soil.

In the 1989 site assessment conducted by Camp Dresser & McKee, Inc. (CDM) confirmed the extent of soil and groundwater impacts related to pesticides for the former airfield operation and Newberry Landfill. Remediation was conducted in 1989 consisting of removal and off-site disposal of approximately 1,000 cubic yards of pesticide impacted soil from six (6) areas on the NFCD site. Toxaphene represented the most prominent contaminant of concern. Soil removal was completed to a toxaphene cleanup target level of 50 mg/kg. The current toxaphene State default residential soil cleanup target level (SCTL) is 0.9 mg/kg (Chapter 62-777 FAC).

A background soil sample was collected by CDM south of the air strip operation within an agricultural field area as part of the 1989 assessment. Toxaphene was not identified at the background location. The 0-0.5 feet sample identified 4,4'-DDE was reported at 16 mg/kg. This concentration is above the current State default residential SCTL of 2.9 mg/kg. Other targeted parameters were not detected. The 0.5-2 feet sample at the background location did not identify detectable concentrations of targeted parameters.

Four groundwater monitoring wells (MW-6 through MW-9) were installed and sampled on the NFCD site as part of the 1989 CDM site assessment. Initially detected targeted constituents were reported as being below "*State of Florida standards*". Additional groundwater testing at the site was documented in a CDM report dated January 30, 1990. Detectable concentrations of toxaphene (10 µg/l) and chlordane (1.8 µg/l) were reported at one monitoring well (MW-8), exceeding the FDER guidance concentrations at the time of 10 and 0.1 µg/l, respectively. The current default GCTL is 3 µg/l for toxaphene and 2 µg/l for chlordane (Chapter 62-777 FAC).

The site was formally closed by the FDER (FDEP) upon completion of the remedial activities and groundwater sampling event. Further details related to site conditions and closure are included in the FDER Interoffice Memorandum titled *Newberry Deletion File* dated July 30, 1991; the signed *FDER Deletion Criteria Checklist – Newberry Airstrip/Landfill* dated August 29, 1991; and the *Final Report, Site Inspection Prioritization, North Florida Crop Dusting Site* prepared by Ecology & Environment, Inc. dated July 1995. The July 1995 document concluded that no CERCLA action was warranted at the NFCD site and stated that the combined NFCD and Newberry Landfill site was delisted from the State Action Sites List by the FDEP Bureau of Waste Cleanup in August 1991.

As part of the GSE LESA, seven (7) hand auger were performed across the subject site in May 2023. The borings were advanced to 4 feet bls. Representative soil samples (0-0.5, 0.5-2, & 2-4 feet depth intervals) were collected and selected for Organochloride Pesticide constituent laboratory analysis.

Detectable concentrations of Endosulfan I (B-2, B-6), Endosulfan (alpha + beta + sulfate) (B-6), Endrin (B-3), and p,p-DDT (B-2, B-3) in the 0-0.5 feet depth interval samples were reported for three (3) of the seven (7) boring locations. Detected concentrations were orders of magnitude below the applicable SCTLs. There are no applicable SCTLs for Endosulfan I. No detectable concentrations of targeted constituents were detected with the remaining depth intervals (0.5-2 & 2-4 feet).

The laboratory test results suggest the residual low-level concentrations of pesticides in soil are likely related to historical field application as part of crop production. Surface applications represent an intended use of the agrochemicals. Since Endosulfan I was identified on the NFCD site, it is conceivable this finding is a residual level associated with the former site activities. No concentrations exceeding the State default SCTLs.

As part of the LESA, groundwater samples were collected from MW-6 & MW-9 on the NFCD site in May 2023. The samples were also analyzed for Organochloride Pesticide constituents. No concentrations exceeding the laboratory method detection limits of the targeted constituents were detected. As a result, no groundwater impacts exceeding applicable GCTLs were detected.

The findings documented herein do not indicate an impact to soil or groundwater related to targeted constituents is present on the subject site. No indications of an impact of regulatory consequence were identified in association with the subject site. No supplemental characterization of the subject site for the targeted constituents is necessary based on these findings.

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- FDER Deletion Criteria Checklist – Newberry Airstrip/Landfill signed August 29, 1991
- Final Report, Site Inspection Prioritization, North Florida Crop Dusting Site prepared by Ecology & Environment, Inc. dated July 1995

1.0 BACKGROUND INFORMATION

GSE was requested to conduct this limited environmental site assessment (LESA) for the City of Newberry Wastewater Treatment Facility (WWTF) Expansion Site.

This LESA was performed on behalf of the City of Newberry at the request of and under the authorization of Robert Walpole, P.E. with CHW Professional Consultants (CHW). Our services were completed consistent with GSE Proposal No. 2023-174A dated May 11, 2023.

1.1 Project Description

The City of Newberry is developing an industrial park and expanding the existing WWTF. The project is in the planning phase. The project area is generally located northeast of the SW 266 Street and SW 30th Avenue intersection (Figure 1).

Alachua County has expressed interest in developing up to 15 acres on the western portion of the planned industrial park site. Alachua County provided a site plan illustrating the general area under consideration. Alachua County is considering locating a meat processing facility and rural waste collection center in the area.

As part of the due diligence evaluation, Alachua County raised concerns related to a site referred to as the North Florida Crop Dusting (NFCD) site, which represents a former airfield and operation to the north of the area being considered by the County. The area was historically operated as a base for agrochemical aerial spraying. The site is listed under the Florida Department Environmental Protection (FDEP) Facility ID ERIC_8857 as the *North Florida Crop Dusting* site.

1.2 Summary of North Florida Crop Dusting Site

GSE completed a review of FDEP regulatory file information related to the above site. A brief summary of the former NFCD site regulatory information is provided below.

According to a 1985 Florida Department of Agriculture and Consumer Services (FDACS) report, pesticide rinsate generated during cleaning of the airplane tanks was discharged to an unlined pit and ground surface at the NFCD airfield site. Six areas of visibly impacted soil and/or stressed vegetation were noted. FDACS conducted an investigation that identified high concentrations of pesticides in soil.

In September 1986, NFCD was cited for using registered pesticides in a manner inconsistent with labeling. A nearby unpermitted Newberry Landfill was used as a disposal facility by the NFCD until 1977.

In January 1988, the FDEP used the Water Quality Assurance Trust Fund to fund remedial actions at the site. In July 1988, FDEP elected to combine the NFCD and Newberry Landfill site due to them being in close proximity and having similar contaminants of concern.

In the 1989 site assessment conducted by Camp Dresser & McKee, Inc. (CDM) confirmed the extent of soil and groundwater impacts related to pesticides for the former airfield operation and Newberry Landfill. The findings were summarized by CDM and submitted to the Florida Department of Environmental Regulation (FDER, predecessor to FDEP) in a report titled *Contamination Assessment, Newberry Airstrip/Landfill Site* dated August 29, 1989 (File No. 6072-005-CD-FINAL).

The CDM report indicated several businesses were in operation at the airstrip from the 1960s until 1986.

For the NFCD site, toxaphene was detected at concentrations ranging between 480 and 7,200,000 µg/kg. In addition, gamma BHC (Lindane) and Endosulfan I at maximum concentrations of 230,000 and 570,000 µg/kg were also detected at elevated levels in one area (designated by CDM as Area 6).

A background soil sample was collected by CDM south of the air strip operation within an agricultural field area. The approximate location is illustrated on Figures 2 & 3. Toxaphene was not identified at the background location. The 0-0.5 feet sample identified 4,4'-DDE was reported at 16 µg/kg. This concentration is below the current State default residential soil cleanup target level (SCTL) of 2.9 µg/kg (Chapter 62-777 Florida Administrative Code (FAC)). Other targeted parameters were not detected. The 0.5-2 feet sample at the background location did not identify detectable concentrations of targeted parameters.

As part of the assessment, four (4) approximately 48 to 54 feet deep 2-inch diameter groundwater monitoring wells (MW-6 through MW-9) were installed on the NFCD site. The CDM monitoring well locations are shown on Figures 2 & 3. The groundwater was analyzed for chlorinated pesticides/PCBs, volatile organic compounds, base/neutrals, acid extractables, and metals. Detectable concentrations of Alpha-BHC (MW-7 (0.010 µg/l), MW-8 (0.036 µg/l), Beta-BHC (MW-8 (0.14 µg/l), Endrin (MW-9 (0.72 µg/l)), Zinc (ranging between 0.011-0.030 µg/l), and Phenolics (ranging between 0.011-0.015 µg/l) were reported as being below "*State of Florida standards*".

Remediation was conducted between August 12 and 25, 1989 to address soil impacts identified as part of the assessment. The remediation program was summarized in the CDM document titled *Remedial Action Report for Newberry Airstrip/Landfill Site* dated November 9, 1989.

The report documented removal and off-site disposal of approximately 1,000 cubic yards of pesticide impacted soil from six (6) areas on the site. The approximate extents of the excavated areas are illustrated on Figure 3. Toxaphene represented the most prominent contaminant of concern. Soil removal was completed to a toxaphene cleanup target level of 50 mg/kg. Confirmation laboratory analysis was conducted to demonstrate adequate removal was achieved. The current toxaphene default residential SCTL is 0.9 mg/kg.

Additional groundwater testing at the site was documented in a CDM report dated January 30, 1990 (Appendix D). The four on-site monitoring wells (MW-6 through MW-9) were sampled and analyzed for pesticide extractables and organophosphates. Detectable concentrations of toxaphene (10 µg/l) and chlordane (1.8 µg/l) were reported at one monitoring well (MW-8), exceeding the FDER guidance concentrations at the time of 10 and 0.1 µg/l, respectively. The current default GCTL is 3 µg/l for toxaphene and 2 µg/l for chlordane (Chapter 62-777 FAC).

The site was formally closed by the FDER (FDEP) upon completion of the remedial activities and groundwater sampling event. Further details related to site conditions and closure are included in the FDER Interoffice Memorandum titled *Newberry Deletion File* dated July 30, 1991; the signed *FDER Deletion Criteria Checklist – Newberry Airstrip/Landfill* dated August 29, 1991; and the *Final Report, Site Inspection Prioritization, North Florida Crop Dusting Site* prepared by Ecology & Environment, Inc. dated July 1995 (Appendix D). The July 1995 document concluded that no CERCLA action was warranted at the NFCD site and stated that the combined NFCD and Newberry Landfill site was delisted from the State Action Sites List by the FDEP Bureau of Waste Cleanup in August 1991.

Multiple discussions were held with the Alachua County Environmental Protection Department (ACEPD) representatives related to this former operation and above summarized environmental condition.

1.3 Summary of Historical Aerial Photographs

A review of historical aerial photographs dating back to the 1960s confirmed the airstrip and associated operational area were not present in 1964 or 1971. The airfield and operations are readily visible on the 1982 aerial. CDM reported several "*businesses were in operation at the airfield from 1960s to 1986*". Aerial photographs indicate the air field and operations were actually not present until sometime after 1974.

The operational area was located on the northwest corner of the Newberry WWTF Expansion site. The 1982 aerial confirms the operational area did not extend onto the property under consideration by the County. The "take-off and landing" air strip did extend southward across the western portion of the property, including the area being considered by the County.

The larger WWTF Expansion property appears to have been in row crop production in the 1970s and 1980s. In 1964 trees appear to have been recently harvested in the middle/southern portion of the property. By 1971 the balance of the trees had been harvested across the larger site. There were no indications of agricultural or other operational areas having been present on the balance of the Newberry WWTF Expansion Site between 1964 and 1982.

Figures 5, 6 & 7 include aerial photographs of the site dated 1982, 1971 & 1964, respectively.

1.4 Purpose and Approach

This LESA was intended to establish if an impact to soil or groundwater related to the former NFCD site is present in the area of the proposed Alachua County improvements.

Considering the findings of the assessment and completed remedial work conducted at the NFCD site, this site assessment focused on the presence of residual pesticides in near surface soils. It is expected that residual concentrations that may be present would represent a surface application source. Accordingly, impacts to soil that may be present would be expected to be identified in the near surface.

Proposed test locations, sampling approach, and selected parameters considered the location of the former off-site operation, regulatory information & status, and historical agricultural row crop production across the site. GSE and Alachua County collaborated to develop the sampling strategy and selected test locations. Seven soil test locations were selected for soil analysis. In addition, groundwater samples would be collected from the two monitoring wells located in closest proximity to the subject site (MW-6 & MW-9).

Hand auger borings were advanced to 4 feet below land surface (bls). GSE collected soil samples at 0-0.5, 0.5-2, and 2-4 feet depth intervals. In addition, the City of Newberry elected to have two existing monitoring wells sampled on the former NFCD site. The laboratory soil and groundwater analysis targeted pesticide constituents (including parameters historically detected at the former NFCDS operation) by EPA Test Method 8081.

2.0 FIELD AND LABORATORY TESTING PROGRAM

The following sections summarize the field and laboratory services.

2.1 Soil Sampling Program

Seven (7) hand auger (HA) borings (B-1 through B-7) were manually advanced to approximately 4 feet bls. The borings were terminated at their intended depths. The borings were conducted on May 25, 2023. The approximate HA boring locations are shown on Figure 2.

The borings encountered poorly graded sand (SP), sand with silt (SP-SM), and sand with clay (SP-SC) to the boring termination depths. Groundwater was not encountered within the explored depth. The soil samples were observed for visual indications of uncharacteristic staining and odor. The HA boring logs are included in Appendix A.

Representative soil samples were collected from 0-0.5, 0.5-2 feet, and 2-4 feet intervals at each location. The samples were placed in an ice-filled cooler and delivered via chain-of-custody protocol to Advanced Environmental Laboratories, Inc. (AEL) in Gainesville, Florida for analysis.

2.2 Groundwater Sampling Program

The City of Newberry retained AEL to collect groundwater samples from two existing monitoring wells (MW-6 & MW-9) on the former NFCD site. In addition, groundwater depth measurements were obtained from four (4) groundwater monitoring wells (MW-6, MW-7, MW-8 & MW-9) on the former NFCD site. The approximate monitoring well locations are shown on Figures 2 & 3. The groundwater sampling and depth measurements were conducted on May 15, 2023.

Groundwater samples were collected with an electric submersible pump with dedicated low-density polyethylene tubing. Purging and sampling were conducted consistent with FDEP Standard Operating Procedures (SOP). The groundwater sampling (and groundwater depth measurement) logs are included in the AEL Laboratory Test Report (Appendix B).

In order to estimate the groundwater flow direction across the site, top of casing elevations were established through a survey conducted by CHW. The locations of the monitoring wells were also surveyed. The survey elevation data for the monitoring wells is provided on Figure 4.

2.3 Soil Analysis and Results

Soil samples were analyzed for Organochloride Pesticides (EPA Test Method 8081). The following Table 1 summarizes the test results. State Default Soil Cleanup Target Levels (SCTLs) consistent with Chapter 62-777 Florida Administrative Code (FAC) for the analyzed constituents are included in the table.

Table 1 - Summary of Soil Analysis Results

Location	Depth (ft)	Date Collected	Target Constituent				Unit
			Endosulfan I	Endosulfan (alpha+beta+sulfate)	Endrin	p,p-DDT	
B1	0-0.5	5/25/2023	0.00048 U	0.00048 U	0.00057 U	0.0006 U	mg/kg
	0.5-2	5/25/2023	0.00013 U	0.000091 U	0.00023 U	0.00024 U	mg/kg
	2-4	5/25/2023	0.00013 U	0.00009 U	0.00023 U	0.00023 U	mg/kg
B2	0-0.5	5/25/2023	0.00063 I	0.0006 U	0.00056 U	0.0021	mg/kg
	0.5-2	5/25/2023	0.00047 U	0.00047 U	0.00056 U	0.00059 U	mg/kg
	2-4	5/25/2023	0.00047 U	0.00047 U	0.00056 U	0.00059 U	mg/kg
B3	0-0.5	5/25/2023	0.00047 U	0.00047 U	0.00057 I	0.0016 I	mg/kg
	0.5-2	5/25/2023	0.00049 U	0.00049 U	0.00058 U	0.00061 U	mg/kg
	2-4	5/25/2023	0.00049 U	0.00049 U	0.00059 U	0.00061 U	mg/kg
B4	0-0.5	5/25/2023	0.00047 U	0.00047 U	0.00056 U	0.00059 U	mg/kg
	0.5-2	5/25/2023	0.00047 U	0.00047 U	0.00056 U	0.00059 U	mg/kg
	2-4	5/25/2023	0.00046 U	0.00046 U	0.00054 U	0.00057 U	mg/kg
B5	0-0.5	5/25/2023	0.00048 U	0.00048 U	0.00057 U	0.0006 U	mg/kg
	0.5-2	5/25/2023	0.00047 U	0.00047 U	0.00056 U	0.00058 U	mg/kg
	2-4	5/25/2023	0.00047 U	0.00047 U	0.00056 U	0.00058 U	mg/kg
B6	0-0.5	5/25/2023	0.00067 I	0.00067 I	0.00058 U	0.0006 U	mg/kg
	0.5-2	5/25/2023	0.00046 U	0.00046 U	0.00055 U	0.00058 U	mg/kg
	2-4	5/25/2023	0.00048 U	0.00048 U	0.00057 U	0.0006 U	mg/kg
B7	0-0.5	5/25/2023	0.00049 U	0.00049 U	0.00058 U	0.0006 U	mg/kg
	0.5-2	5/25/2023	0.00047 U	0.00047 U	0.00056 U	0.00058 U	mg/kg
	2-4	5/25/2023	0.00048 U	0.00048 U	0.00057 U	0.0006 U	mg/kg
Regulatory Guideline Cleanup Target Levels*	Direct Exposure - Residential		N/A	450	25	2.9	mg/kg
	Direct Exposure - Commercial/Industrial		N/A	7600	510	15	mg/kg
	Leachability for Groundwater		N/A	3.8	1	11	mg/kg

Notes:

*Chapter 62-777 Florida Administrative Code (FAC) Default Soil Cleanup Target Levels (SCTL)

I - Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

U - The compound was analyzed for but not detected

The complete AEL soil analytical laboratory test report including the chain of custody is included in Appendix B.

2.4 Groundwater Analysis and Results

The groundwater samples were analyzed for Organochlorine Pesticides (EPA Method 8081). Targeted constituents were not detected above the reported method detection limits. The complete AEL groundwater analytical laboratory test report including the groundwater sampling logs is included in Appendix C.

3.0 EVALUATION OF RESULTS

Seven (7) hand auger were performed across the subject site. The borings were advanced to 4 feet bls. Representative soil samples (0-0.5, 0.5-2 & 2-4 feet depth intervals) were collected and selected for Organochloride Pesticide constituent laboratory analysis (EPA Test Method 8081).

Detectable concentrations of Endosulfan I (B-2, B-6), Endosulfan (alpha + beta + sulfate) (B-6), Endrin (B-3), and p,p-DDT (B-2, B-3) in the 0-0.5 feet depth interval samples were reported for three (3) of the seven (7) boring locations. Detected concentrations were orders of magnitude below applicable SCTLs. There are no applicable SCTLs for Endosulfan I. No detectable concentrations of targeted constituents were detected with the remaining depth intervals (0.5-2 & 2-4 feet).

The laboratory test results suggest the residual low-level concentrations of pesticides are most likely related to historical field application as part of crop production. Surface applications represent an intended use of the agrochemicals. Since Endosulfan I was identified on the NFCD site, it is conceivable this is a residual level associated with the former site activities. No concentrations were detected exceeding the State default SCTLs.

Groundwater samples collected from MW-6 & MW-9 were also analyzed for Organochloride Pesticide constituent laboratory analysis (EPA Test Method 8081). No concentrations exceeding the laboratory method detection limits of the targeted constituents were detected. As a result, no groundwater impacts exceeding applicable GCTLs were detected.

The groundwater depth at the site is currently on the order of 40 feet below existing grade. Three of the monitoring well (MW-6, MW-7 & MW-8) elevations were considered in establishing the groundwater gradient and flow direction. The calculated groundwater elevation for monitoring well MW-9 appears to represent an anomalous condition outside the expected range of the other wells. The groundwater direction is interpreted to generally be towards the east. Figure 4 includes the groundwater depths, elevations, and interpreted groundwater flow. The CDM April 1985 interpreted groundwater flow was towards the northeast.

4.0 CONCLUSION

The City of Newberry is developing an industrial park and expanding the existing WWTF. The project is in the planning phase. Alachua County has expressed interest in developing up to 15 acres on the western portion of the planned industrial park site.

As part of the due diligence evaluation, Alachua County raised concerns related to a site referred to as the North Florida Crop Dusting (NFCD) site, which represents a former airfield and operation to the north of the area being considered by County. The area was historically operated as a base for agrochemical aerial spraying. The site is listed under the Florida Department Environmental Protection (FDEP) Facility ID ERIC_8857 as the *North Florida Crop Dusting* site.

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A background soil sample was collected by CDM south of the air strip operation within an agricultural field area as part of the 1989 assessment. Toxaphene was not identified at the background location. The 0-0.5 feet sample identified 4,4'-DDE was reported at 16 mg/kg. This concentration is above the current State default residential SCTL of 2.9 mg/kg. Other targeted parameters were not detected. The 0.5-2 feet sample at the background location did not identify detectable concentrations of targeted parameters.

Four groundwater monitoring wells (MW-6 through MW-9) were installed and sampled on the NFCD site as part of the 1989 CDM site assessment. Initially detected targeted constituents were reported as being below "*State of Florida standards*". Additional groundwater testing at the site was documented in a CDM report dated January 30, 1990. Detectable concentrations of toxaphene (10 µg/l) and chlordane (1.8 µg/l) were reported at one monitoring well (MW-8), exceeding the FDER guidance concentrations at the time of 10 and 0.1 µg/l, respectively. The current default GCTL is 3 µg/l for toxaphene and 2 µg/l for chlordane (Chapter 62-777 FAC).

The site was formally closed by the FDER (FDEP) upon completion of the remedial activities and groundwater sampling event. Further details related to site conditions and closure are included in the FDER Interoffice Memorandum titled *Newberry Deletion File* dated July 30, 1991; the signed *FDER Deletion Criteria Checklist – Newberry Airstrip/Landfill* dated August 29, 1991; and the *Final Report, Site Inspection Prioritization, North Florida Crop Dusting Site* prepared by Ecology & Environment, Inc. dated July 1995. The July 1995 document concluded that no CERCLA action was warranted at the NFCD site and stated that the combined NFCD and Newberry Landfill site was delisted from the State Action Sites List by the FDEP Bureau of Waste Cleanup in August 1991.

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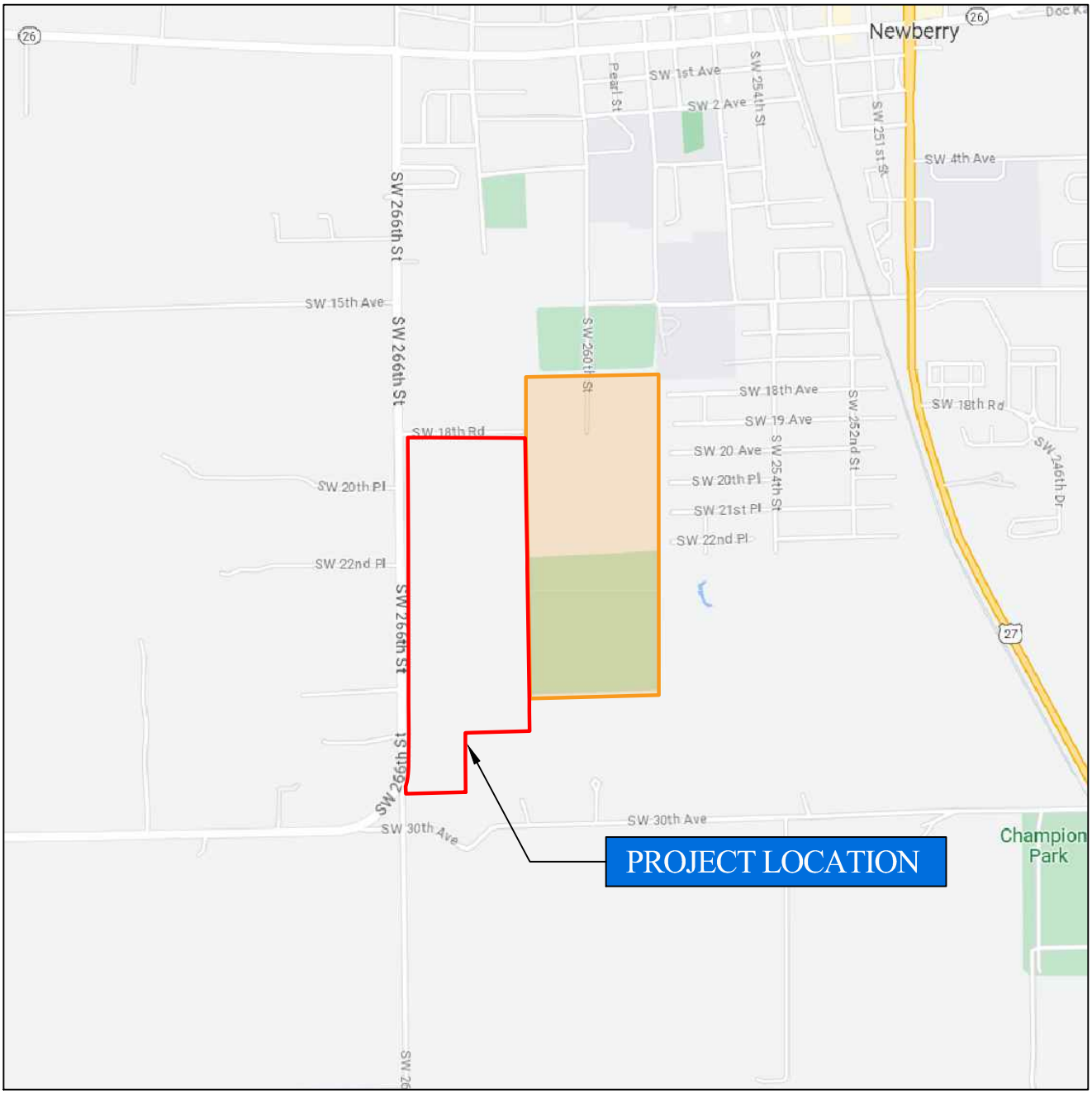
The laboratory test results suggest the residual low-level concentrations of pesticides in soil are likely related to historical field application as part of crop production. Surface applications represent an intended use of the agrochemicals. Since Endosulfan I was identified on the NFCD site, it is conceivable this finding is a residual level associated with the former site activities. No concentrations exceeding the State default SCTLs.

As part of the LESA, groundwater samples were collected from MW-6 & MW-9 on the NFCD site in May 2023. The samples were also analyzed for Organochloride Pesticide constituents. No concentrations exceeding the laboratory method detection limits of the targeted constituents were detected. As a result, no groundwater impacts exceeding applicable GCTLs were detected.

The findings documented herein do not indicate an impact to soil or groundwater related to targeted constituents is present on the subject site. No indications of an impact of regulatory consequence were identified in association with the subject site. No supplemental characterization of the subject site for the targeted constituents is necessary based on these findings.

FIGURES



LEGEND:

PROPOSED ADDITIONS TO WWTF

EXISTING WWTF SITE

NORTH

NOT TO SCALE

NEWBERRY WWTF CONTAMINATION REVIEW
NEWBERRY, ALACHUA COUNTY, FLORIDA
GSE PROJECT NO. 16024A

PROJECT SITE LOCATION MAP

DESIGNED BY: CPG
CHECKED BY : JBN
DRAWN BY : EEW

GSE Engineering & Consulting, Inc.

FIGURE 1

REFERENCE: AERIAL PHOTOGRAPH (2021) GOOGLE EARTH

LEGEND:

- SUBJECT PROPERTY
- EXISTING WWTF
- GSE HAND AUGER BORINGS
- POTABLE WELL (2023)
- CDM MONITORING WELLS
- BACKGROUND CDM BORING

NORTH

0 650'

SCALE: 1" = 650' APPROX.

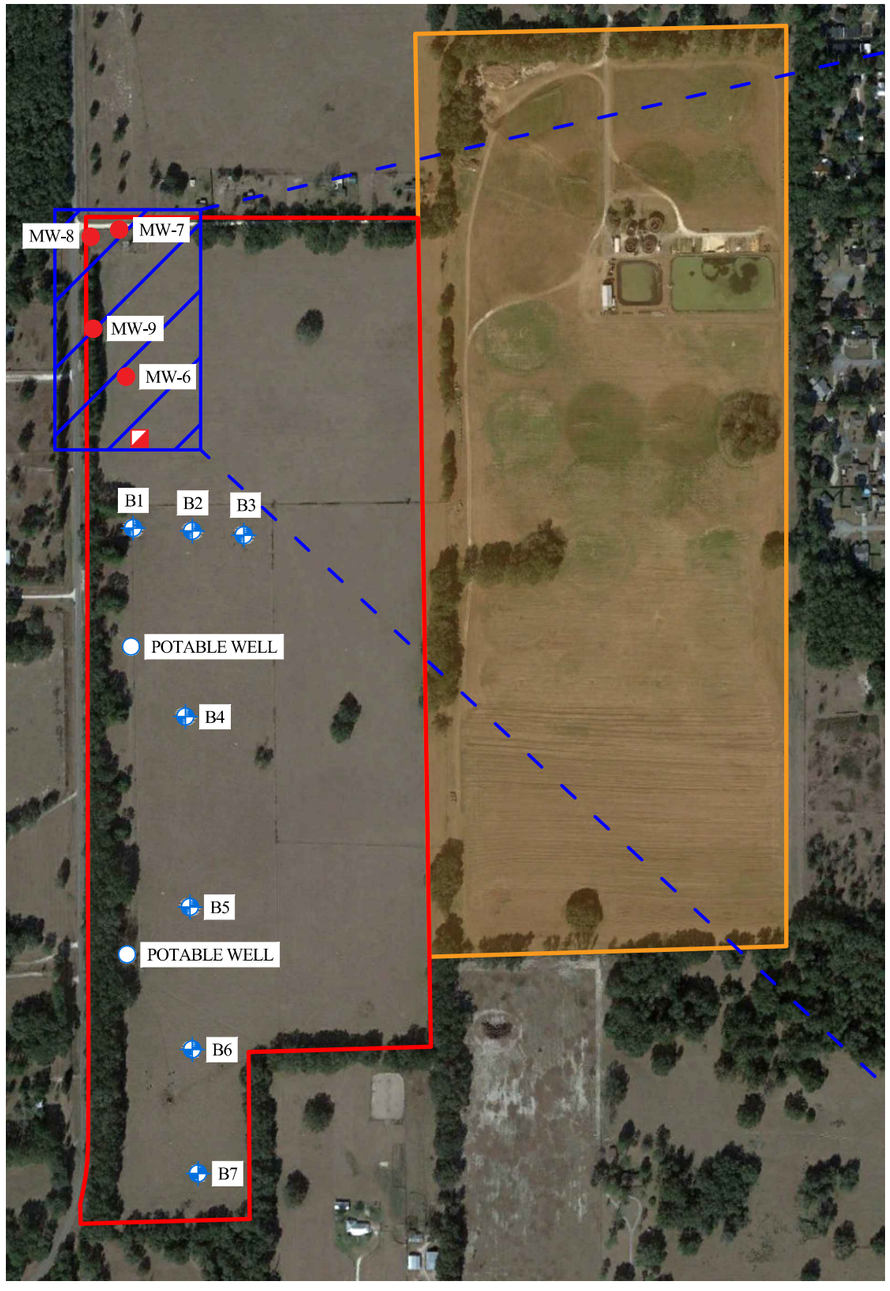
NEWBERRY WWTF CONTAMINATION REVIEW NEWBERRY, ALACHUA COUNTY, FLORIDA
GSE PROJECT NO. 16024A

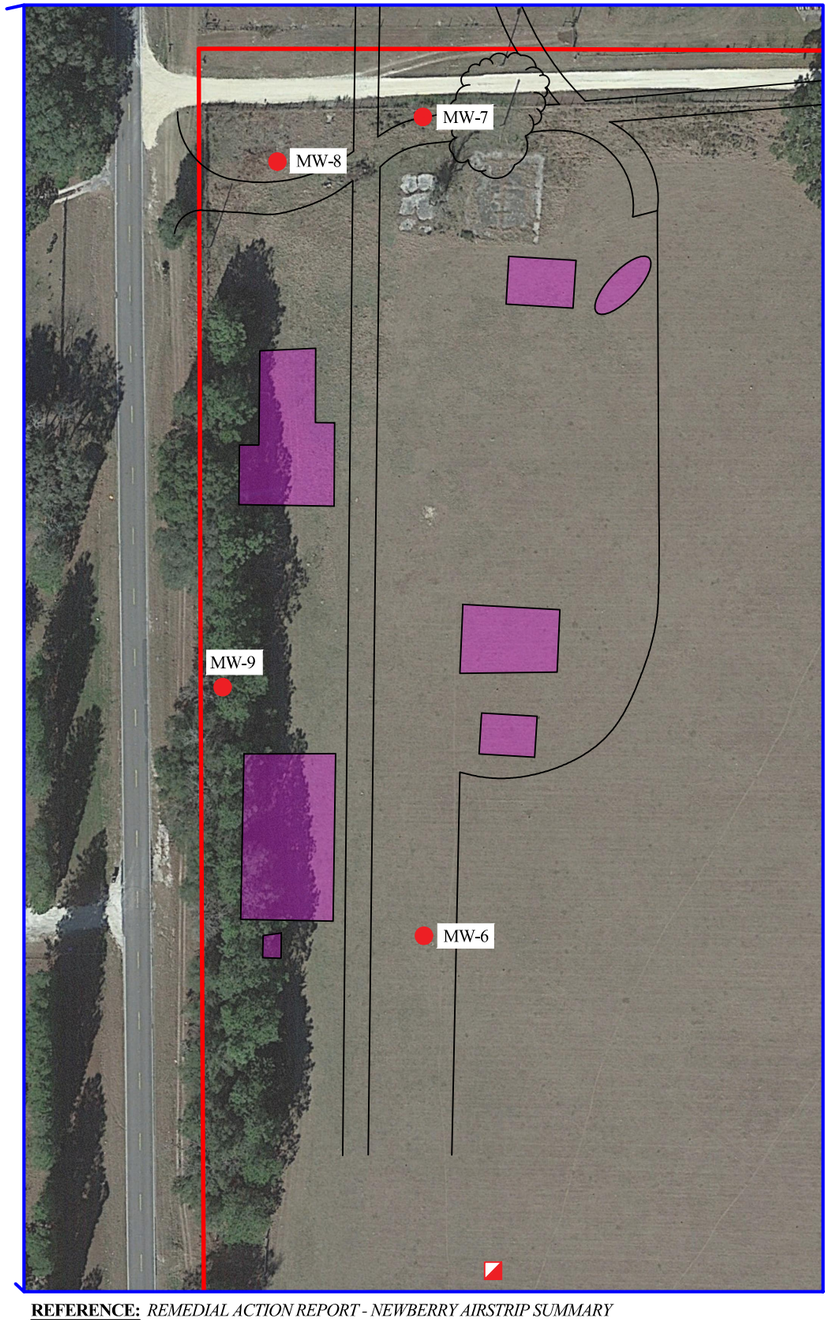
SITE PLAN SHOWING EXISTING SITE FEATURES & APPROXIMATE FIELD TEST LOCATIONS

DESIGNED BY: CPG
CHECKED BY : JBN
DRAWN BY : EEW

GSE Engineering & Consulting, Inc.

FIGURE 2





LEGEND:

- SUBJECT PROPERTY
- EXISTING WWTF
- CDM REMEDIATION EXCAVATED AREA (1989)
- GSE HAND AUGER BORINGS
- POTABLE WELL (2023)
- CDM MONITORING WELLS
- BACKGROUND CDM BORING

REFERENCE: *REMEDIAL ACTION REPORT - NEWBERRY AIRSTRIP SUMMARY*
PREPARED BY CAMP DRESSER & MCKEE, INC. (CDM) DATED NOVEMBER 9, 1989

NORTH

0 100'

SCALE: 1" = 100' APPROX.

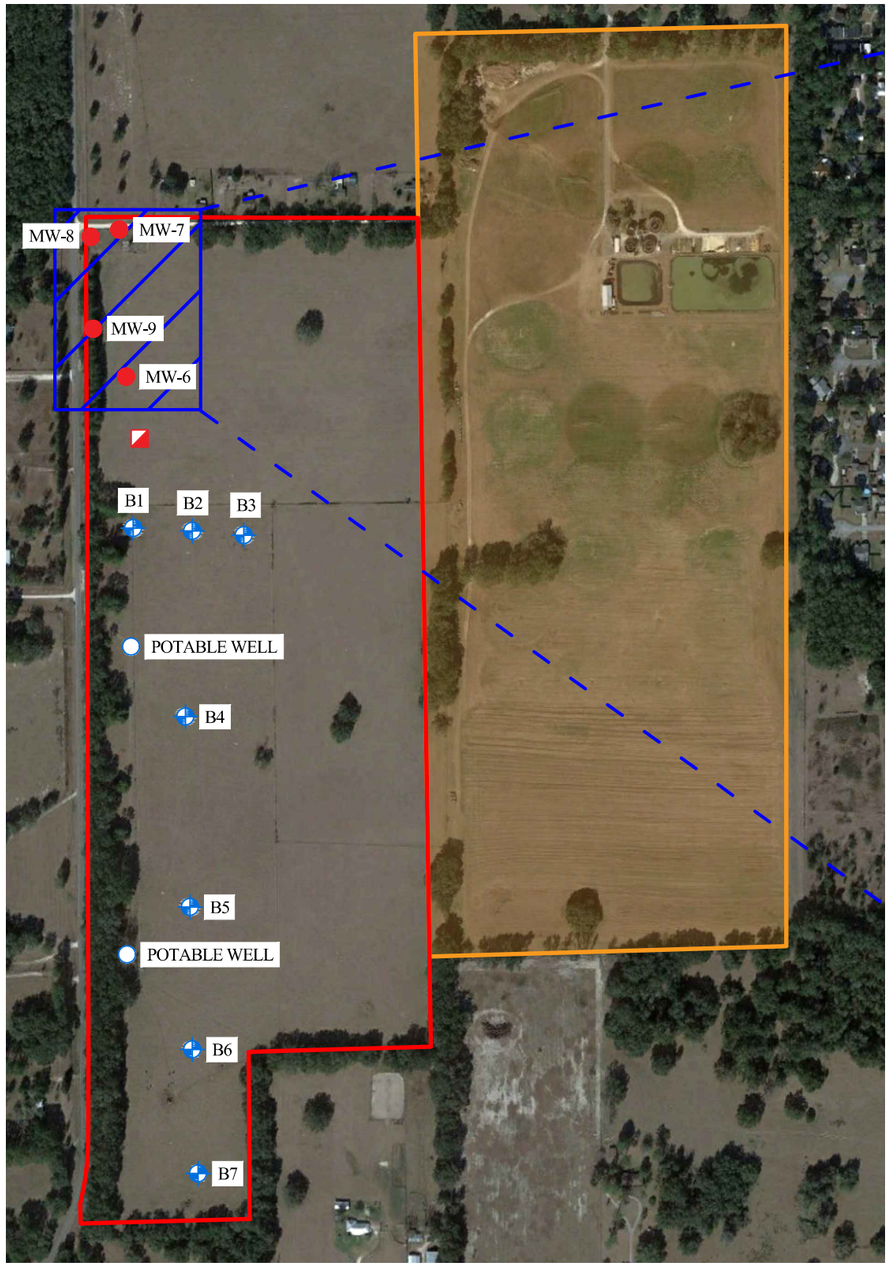
SITE PLAN ILLUSTRATING HISTORICAL CDM
ASSESSMENT AND REMEDIATION DATA

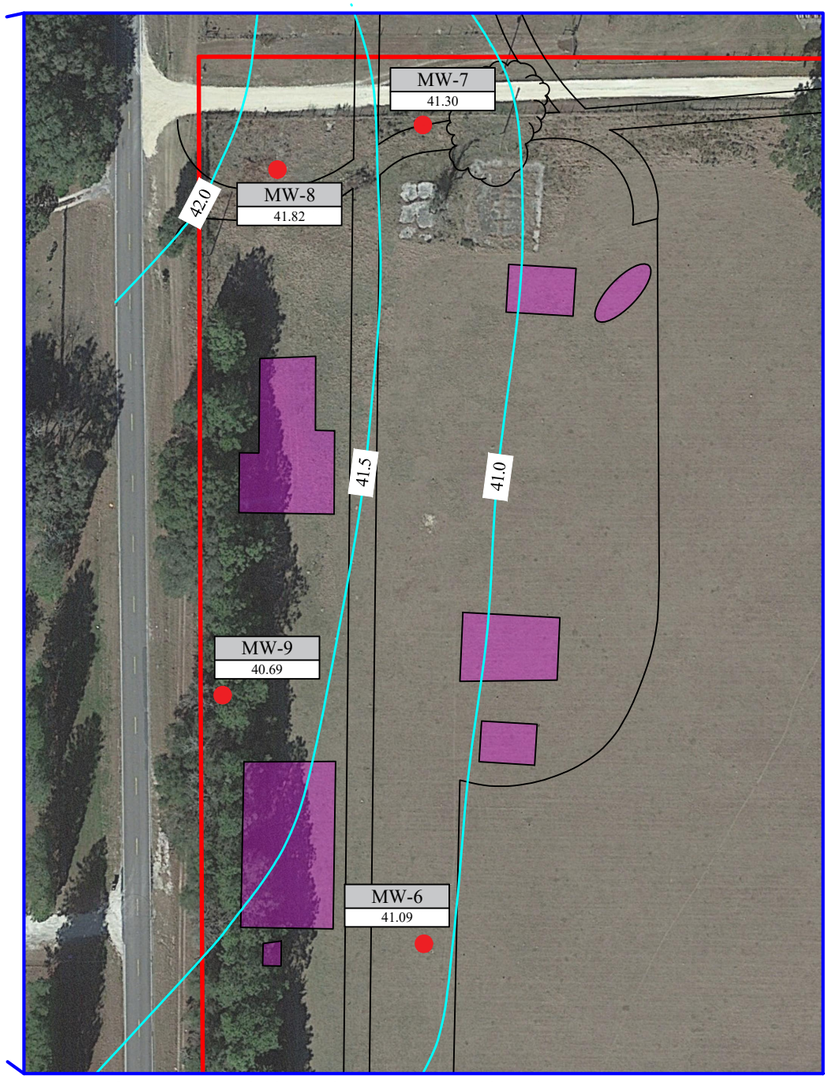
FIGURE 3

DESIGNED BY : CPG
CHECKED BY : JBN
DRAWN BY : EEW

GSE Engineering & Consulting, Inc.

NEWBERRY WWTF CONTAMINATION REVIEW
NEWBERRY, ALACHUA COUNTY, FLORIDA
GSE PROJECT NO. 16024A





REFERENCE: *REMEDIAL ACTION REPORT - NEWBERRY AIRSTRIP SUMMARY*
PREPARED BY CAMP DRESSER & MCKEE, INC. (CDM) DATED NOVEMBER 9, 1989

MONITORING WELL	TOP OF CASING ELEVATION (FT)	DATE	DEPTH TO GROUNDWATER (FT)	GROUNDWATER ELEVATION (FT)
MW-6	79.94	5/15/2023	38.85	41.09
MW-7	80.14	5/15/2023	38.84	41.30
MW-8	81.53	5/15/2023	39.71	41.82
MW-9	78.42	5/15/2023	37.73	40.69

LEGEND:

- SUBJECT PROPERTY
- EXISTING WWTF
- CDM REMEDIATION EXCAVATED AREA (1989)
- GSE HAND AUGER BORINGS
- POTABLE WELL (2023)
- CDM MONITORING WELLS
- BACKGROUND CDM BORING
- MONITORING WELL / GROUNDWATER DEPTH (FT)

NORTH

0 100'

SCALE: 1" = 100' APPROX.

SITE PLAN SHOWING INTERPRETED GROUNDWATER FLOW DIRECTION

FIGURE 4

GSE Engineering & Consulting, Inc.

DESIGNED BY : CPG
CHECKED BY : JBN
DRAWN BY : EEW

NEWBERRY WWTF CONTAMINATION REVIEW
NEWBERRY, ALACHUA COUNTY, FLORIDA
GSE PROJECT NO. 16024A

NORTH

0 300'

SCALE: 1" = 300' APPROX.

NEWBERRY WWTF CONTAMINATION REVIEW
NEWBERRY, ALACHUA COUNTY, FLORIDA
GSE PROJECT NO. 16024A

AERIAL PHOTOGRAPH - 1982

DESIGNED BY: CPG
CHECKED BY : JBN
DRAWN BY : EEW

GSE Engineering & Consulting, Inc.

FIGURE

5

NEWBERRY WWTF CONTAMINATION REVIEW
NEWBERRY, ALACHUA COUNTY, FLORIDA
GSE PROJECT NO. 16024A

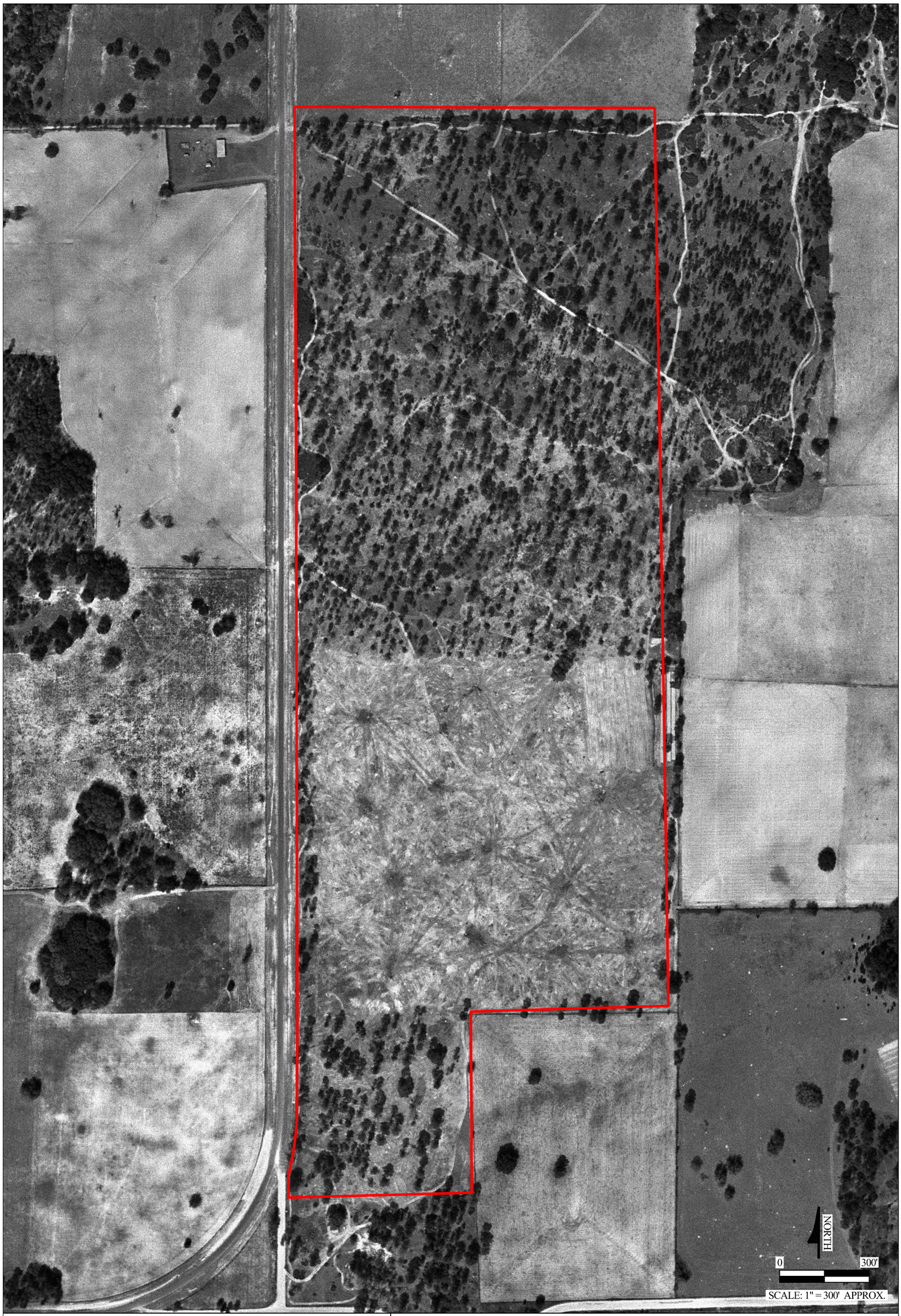
AERIAL PHOTOGRAPH - 1971

DESIGNED BY: CPG
CHECKED BY : JBN
DRAWN BY : EEW

GSE Engineering & Consulting, Inc.

FIGURE

6



AERIAL PHOTOGRAPH - 1964

NEWBERRY WWTF CONTAMINATION REVIEW
NEWBERRY, ALACHUA COUNTY, FLORIDA
GSE PROJECT NO. 16024A

DESIGNED BY: CPG
CHECKED BY : JBN
DRAWN BY : EEW

GSE Engineering & Consulting, Inc.

FIGURE

7

APPENDIX A

GSE Engineering
5590 SW 64th St
Gainesville, FL 32608
Telephone: 3523773233

CLIENT CHW Professional Consultants
PROJECT NAME Newberry WWTF Contamination Review
PROJECT NUMBER 16024A
PROJECT LOCATION Newberry, Alachua County, Florida

DATE PERFORMED 5/25/2023 **BORING NUMBER B1**
DRILLING CONTRACTOR
GROUND WATER LEVELS: LOGGED BY
AT TIME OF DRILLING NE CHECKED BY CPG
ESTIMATED SEASONAL HIGH NA
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0		AU 1	(SP-SM) Brown SAND with trace silt
0.5			(SP) Brown SAND
1		AU 2	
2			(SP) Pale brown SAND with trace limestone
2.0		AU 3	
3			
4			
4.0			Bottom of borehole at 4.0 feet.

DATE PERFORMED 5/25/2023 **BORING NUMBER B2**
DRILLING CONTRACTOR
GROUND WATER LEVELS: LOGGED BY
AT TIME OF DRILLING NE CHECKED BY CPG
ESTIMATED SEASONAL HIGH NA
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0		AU 1	(SP-SM) Brown SAND with trace silt
0.5			(SP) Pale brown SAND
1		AU 2	
2			(SP-SC) Pale brown SAND with trace orange clay
2.0		AU 3	
3			
4			
4.0			Bottom of borehole at 4.0 feet.

(Continued Next Page)

GSE Engineering
5590 SW 64th St
Gainesville, FL 32608
Telephone: 3523773233

CLIENT CHW Professional Consultants
PROJECT NAME Newberry WWTF Contamination Review
PROJECT NUMBER 16024A
PROJECT LOCATION Newberry, Alachua County, Florida

DATE PERFORMED 5/25/2023 **BORING NUMBER B3**
DRILLING CONTRACTOR
GROUND WATER LEVELS: LOGGED BY
AT TIME OF DRILLING NE CHECKED BY CPG
ESTIMATED SEASONAL HIGH NA
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0			
		AU 1	(SP-SM) Brown SAND w/ trace silt
0.5			
			(SP) Pale brown SAND
1		AU 2	
2			
2.0			
			(SP-SC) Pale brown SAND with trace orange clay
3		AU 3	
4			
4.0			
			Bottom of borehole at 4.0 feet.

DATE PERFORMED 5/25/2023 **BORING NUMBER B4**
DRILLING CONTRACTOR
GROUND WATER LEVELS: LOGGED BY
AT TIME OF DRILLING NE CHECKED BY CPG
ESTIMATED SEASONAL HIGH NA
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0			
		AU 1	(SP-SM) Brown SAND with trace silt
0.5			
			(SP) Pale brown SAND
1		AU 2	
2			
		AU 3	
3			
4			
4.0			
			Bottom of borehole at 4.0 feet.

AB 2 PORTRAIT - GINT STD US.GDT - 6/8/23 12:42 - C:\USERS\WORKROOM.GSEENGINEERING\DESKTOP\16024A BORINGS.GPJ

(Continued Next Page)

GSE Engineering
5590 SW 64th St
Gainesville, FL 32608
Telephone: 3523773233

CLIENT CHW Professional Consultants
PROJECT NAME Newberry WWTF Contamination Review
PROJECT NUMBER 16024A
PROJECT LOCATION Newberry, Alachua County, Florida

DATE PERFORMED 5/25/2023 **BORING NUMBER B5**
DRILLING CONTRACTOR
GROUND WATER LEVELS: LOGGED BY
AT TIME OF DRILLING NE CHECKED BY CPG
ESTIMATED SEASONAL HIGH NA
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0			
		AU 1	(SP-SM) Brown SAND w/ trace silt
			0.5
			(SP) Pale brown SAND
1			
		AU 2	
2			
		AU 3	
3			
4			4.0
			Bottom of borehole at 4.0 feet.

DATE PERFORMED 5/25/2023 **BORING NUMBER B6**
DRILLING CONTRACTOR
GROUND WATER LEVELS: LOGGED BY
AT TIME OF DRILLING NE CHECKED BY CPG
ESTIMATED SEASONAL HIGH NA
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0			
		AU 1	(SP-SM) Brown SAND w/ silt
			0.5
			(SP) Pale brown SAND
1			
		AU 2	
2			2.0
			(SP-SC) Pale brown SAND w/ trace orange CLAY
		AU 3	
3			
4			4.0
			Bottom of borehole at 4.0 feet.

(Continued Next Page)

AB 2 PORTRAIT - GINT STD US.GDT - 6/8/23 12:42 - C:\USERS\WORKROOM.GSEENGINEERING\DESKTOP\16024A BORINGS.GPJ

GSE Engineering & Consulting, Inc.
GSE Engineering
5590 SW 64th St
Gainesville, FL 32608
Telephone: 3523773233

CLIENT CHW Professional Consultants
PROJECT NAME Newberry WWTF Contamination Review
PROJECT NUMBER 16024A
PROJECT LOCATION Newberry, Alachua County, Florida

DATE PERFORMED 5/25/2023 **BORING NUMBER B7**
DRILLING CONTRACTOR
GROUND WATER LEVELS:
AT TIME OF DRILLING NE
ESTIMATED SEASONAL HIGH NA
LOGGED BY
CHECKED BY CPG
NOTES

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	MATERIAL DESCRIPTION
0		AU 1	(SP-SM) Brown SAND with trace silt
0.5			(SP) Pale brown SAND with trace burned wood material
1		AU 2	
2			(SP-SC) Pale brown SAND with trace clay
3		AU 3	
4			Bottom of borehole at 4.0 feet.

AB 2 PORTRAIT - GINT STD US.GDT - 6/8/23 12:42 - C:\USERS\WORKROOM.GSEENGINEERING\DESKTOP\16024A BORINGS.GPJ

APPENDIX B

Advanced Environmental Laboratories, Inc.
4965 SW 41st Bl Gainesville, FL 32608
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (352) 377-2349
Fax: (352) 395-6639

FINAL

Workorder: N.F. CROP DUSTING (G2304761)

June 07, 2023

Mr. Jamie Jones

RE: Workorder: G2304761 N.F. CROP DUSTING

Dear Mr. Jamie Jones:

Enclosed are the analytical results for sample(s) received by the laboratory on Monday May 15, 2023. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Desmond Brady

Desmond Brady
DBrady@aellab.com

Certificate of Analysis

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Phone: (352) 377-2349
Fax: (352) 395-6639

FINAL

Workorder: N.F. CROP DUSTING (G2304761)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported	Basis
G2304761001	MW-06	WA	EPA 8081	05/15/2023 08:29	05/15/2023 12:40	19	NA
G2304761002	MW-09	WA	EPA 8081	05/15/2023 09:08	05/15/2023 12:40	19	NA

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Fax: (352) 395-6639

FINAL

Workorder: N.F. CROP DUSTING (G2304761)

Workorder Summary

Batch Comments

GCSt/3391 - 8081/8082/608 Analysis,Water

The control criteria for Decachlorobiphenyl in T2309692003 are not applicable. As recorded in the extraction logbook, the sample formed emulsions in the solvent layer during the extraction. Such emulsions are known to negatively affect surrogate yields. The affected surrogate was qualified to indicate matrix interference.

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Fax: (352) 395-6639

FINAL

Workorder: N.F. CROP DUSTING (G2304761)

Analytical Results Qualifiers

Parameter Qualifiers

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Lab Qualifiers

T	DOH Certification #E84589 (FL NELAC) AEL-Tampa

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FINAL

Workorder: N.F. CROP DUSTING (G2304761)

Analytical Results

Lab ID: G2304761001 **Date Collected:** 05/15/2023 08:29 **Matrix:** Water
Sample ID: MW-06 **Date Received:** 05/15/2023 12:40

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3510C/EPA 8081)								
4,4`-DDD	0.034 U	ug/L	0.050	0.034	1	05/18/2023 11:55	05/21/2023 02:35	T
4,4`-DDE	0.0069 U	ug/L	0.050	0.0069	1	05/18/2023 11:55	05/21/2023 02:35	T
4,4`-DDT	0.015 U	ug/L	0.050	0.015	1	05/18/2023 11:55	05/21/2023 02:35	T
Aldrin	0.015 U	ug/L	0.050	0.015	1	05/18/2023 11:55	05/21/2023 02:35	T
Chlordane (technical)	0.38 U	ug/L	0.50	0.38	1	05/18/2023 11:55	05/21/2023 02:35	T
Dieldrin	0.010 U	ug/L	0.015	0.010	1	05/18/2023 11:55	05/21/2023 02:35	T
Endosulfan I	0.0064 U	ug/L	0.050	0.0064	1	05/18/2023 11:55	05/21/2023 02:35	T
Endosulfan II	0.0064 U	ug/L	0.050	0.0064	1	05/18/2023 11:55	05/21/2023 02:35	T
Endosulfan Sulfate	0.026 U	ug/L	0.050	0.026	1	05/18/2023 11:55	05/21/2023 02:35	T
Endrin	0.0098 U	ug/L	0.050	0.0098	1	05/18/2023 11:55	05/21/2023 02:35	T
Endrin Aldehyde	0.019 U	ug/L	0.050	0.019	1	05/18/2023 11:55	05/21/2023 02:35	T
Heptachlor	0.020 U	ug/L	0.050	0.020	1	05/18/2023 11:55	05/21/2023 02:35	T
Heptachlor Epoxide	0.015 U	ug/L	0.050	0.015	1	05/18/2023 11:55	05/21/2023 02:35	T
Methoxychlor	0.014 U	ug/L	0.050	0.014	1	05/18/2023 11:55	05/21/2023 02:35	T
Toxaphene	0.43 U	ug/L	0.50	0.43	1	05/18/2023 11:55	05/21/2023 02:35	T
alpha-BHC	0.013 U	ug/L	0.050	0.013	1	05/18/2023 11:55	05/21/2023 02:35	T
beta-BHC	0.015 U	ug/L	0.050	0.015	1	05/18/2023 11:55	05/21/2023 02:35	T
delta-BHC	0.016 U	ug/L	0.050	0.016	1	05/18/2023 11:55	05/21/2023 02:35	T
gamma-BHC (Lindane)	0.011 U	ug/L	0.050	0.011	1	05/18/2023 11:55	05/21/2023 02:35	T

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Fax: (352) 395-6639

FINAL

Workorder: N.F. CROP DUSTING (G2304761)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/L	0.50	0.41	82	48 - 137	T
Tetrachloro-m-xylene (S)	ug/L	1	0.84	84	44 - 124	T

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FINAL

Workorder: N.F. CROP DUSTING (G2304761)

Analytical Results

Lab ID: G2304761002 **Date Collected:** 05/15/2023 09:08 **Matrix:** Water
Sample ID: MW-09 **Date Received:** 05/15/2023 12:40

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3510C/EPA 8081)								
4,4`-DDD	0.034 U	ug/L	0.050	0.034	1	05/18/2023 11:55	05/25/2023 20:07	T
4,4`-DDE	0.0069 U	ug/L	0.050	0.0069	1	05/18/2023 11:55	05/25/2023 20:07	T
4,4`-DDT	0.015 U	ug/L	0.050	0.015	1	05/18/2023 11:55	05/25/2023 20:07	T
Aldrin	0.015 U	ug/L	0.050	0.015	1	05/18/2023 11:55	05/25/2023 20:07	T
Chlordane (technical)	0.38 U	ug/L	0.50	0.38	1	05/18/2023 11:55	05/25/2023 20:07	T
Dieldrin	0.010 U	ug/L	0.015	0.010	1	05/18/2023 11:55	05/25/2023 20:07	T
Endosulfan I	0.0064 U	ug/L	0.050	0.0064	1	05/18/2023 11:55	05/25/2023 20:07	T
Endosulfan II	0.0064 U	ug/L	0.050	0.0064	1	05/18/2023 11:55	05/25/2023 20:07	T
Endosulfan Sulfate	0.026 U	ug/L	0.050	0.026	1	05/18/2023 11:55	05/25/2023 20:07	T
Endrin	0.0098 U	ug/L	0.050	0.0098	1	05/18/2023 11:55	05/25/2023 20:07	T
Endrin Aldehyde	0.019 U	ug/L	0.050	0.019	1	05/18/2023 11:55	05/25/2023 20:07	T
Heptachlor	0.020 U	ug/L	0.050	0.020	1	05/18/2023 11:55	05/25/2023 20:07	T
Heptachlor Epoxide	0.015 U	ug/L	0.050	0.015	1	05/18/2023 11:55	05/25/2023 20:07	T
Methoxychlor	0.014 U	ug/L	0.050	0.014	1	05/18/2023 11:55	05/25/2023 20:07	T
Toxaphene	0.43 U	ug/L	0.50	0.43	1	05/18/2023 11:55	05/25/2023 20:07	T
alpha-BHC	0.013 U	ug/L	0.050	0.013	1	05/18/2023 11:55	05/25/2023 20:07	T
beta-BHC	0.015 U	ug/L	0.050	0.015	1	05/18/2023 11:55	05/25/2023 20:07	T
delta-BHC	0.016 U	ug/L	0.050	0.016	1	05/18/2023 11:55	05/25/2023 20:07	T
gamma-BHC (Lindane)	0.011 U	ug/L	0.050	0.011	1	05/18/2023 11:55	05/25/2023 20:07	T

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Fax: (352) 395-6639

FINAL

Workorder: N.F. CROP DUSTING (G2304761)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/L	0.50	0.55	110	48 - 137	T
Tetrachloro-m-xylene (S)	ug/L	1	0.86	86	44 - 124	T

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FINAL

Workorder: N.F. CROP DUSTING (G2304761)

QC Results

QC Batch: GCSt/3391
Preparation Method: SW-846 3510C
Associated Lab IDs: G2304761001, G2304761002
Analysis Method: EPA 8081

Method Blank(4798370)

Parameter	Results	Units	PQL	MDL	Lab
alpha-BHC	0.013 U	ug/L	0.050	0.013	T
gamma-BHC (Lindane)	0.011 U	ug/L	0.050	0.011	T
beta-BHC	0.015 U	ug/L	0.050	0.015	T
delta-BHC	0.016 U	ug/L	0.050	0.016	T
Heptachlor	0.020 U	ug/L	0.050	0.020	T
Aldrin	0.015 U	ug/L	0.050	0.015	T
Heptachlor Epoxide	0.015 U	ug/L	0.050	0.015	T
Endosulfan I	0.0064 U	ug/L	0.050	0.0064	T
4,4`-DDE	0.0069 U	ug/L	0.050	0.0069	T
Dieldrin	0.010 U	ug/L	0.015	0.010	T
Endrin	0.0098 U	ug/L	0.050	0.0098	T
4,4`-DDD	0.034 U	ug/L	0.050	0.034	T
Endosulfan II	0.0064 U	ug/L	0.050	0.0064	T
Endrin Aldehyde	0.019 U	ug/L	0.050	0.019	T
4,4`-DDT	0.015 U	ug/L	0.050	0.015	T
Endosulfan Sulfate	0.026 U	ug/L	0.050	0.026	T
Methoxychlor	0.014 U	ug/L	0.050	0.014	T
Chlordane (technical)	0.38 U	ug/L	0.50	0.38	T
Toxaphene	0.43 U	ug/L	0.50	0.43	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0.0005	100	48 - 137	T
Tetrachloro-m-xylene (S)	mg/L	0.0010	0.000960	96	44 - 124	T

Lab Control Sample (4798371); Lab Control Sample Duplicate (4798372); Parent Lab Sample (G2304761001, G2304761002)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
alpha-BHC	ug/L	0.10	.1	100	54 - 138	.1	102	2	30	T
gamma-BHC (Lindane)	ug/L	0.10	.11	106	59 - 134	.12	117	9	30	T
beta-BHC	ug/L	0.10	.12	119	56 - 136	.12	117	2	30	T
delta-BHC	ug/L	0.10	.12	125	52 - 142	.12	121	3	30	T

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FINAL

Workorder: N.F. CROP DUSTING (G2304761)

QC Batch: GCSt/3391
Preparation Method: SW-846 3510C
Associated Lab IDs: G2304761001, G2304761002

Analysis Method: EPA 8081

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Heptachlor	ug/L	0.10	.11	114	54 - 130	.11	107	6	30	T
Aldrin	ug/L	0.10	.11	109	45 - 134	.095	95	13	30	T
Heptachlor Epoxide	ug/L	0.10	.11	106	61 - 133	.11	108	1	30	T
Endosulfan I	ug/L	0.10	.11	112	62 - 126	.11	106	6	30	T
4,4`-DDE	ug/L	0.10	.1	102	57 - 135	.1	103	1	30	T
Dieldrin	ug/L	0.10	.12	118	60 - 136	.12	124	5	30	T
Endrin	ug/L	0.10	.11	115	60 - 138	.12	116	1	30	T
4,4`-DDD	ug/L	0.10	.12	119	56 - 143	.12	123	3	30	T
Endosulfan II	ug/L	0.10	.12	120	52 - 135	.13	126	4	30	T
Endrin Aldehyde	ug/L	0.10	.12	116	51 - 132	.12	116	0	30	T
4,4`-DDT	ug/L	0.10	.11	112	51 - 143	.12	118	5	30	T
Endosulfan Sulfate	ug/L	0.10	.12	119	62 - 133	.13	126	6	30	T
Methoxychlor	ug/L	0.10	.11	113	54 - 145	.11	108	5	30	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0.00052	103	48 - 137	0.00051	102	1		T
Tetrachloro-m-xylene (S)	mg/L	0.0010	0.00099	99	44 - 124	0.00091	91	8		T

Matrix Spike (4798373); Original (T2309735001); Parent Lab Sample (T2309735001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
alpha-BHC	ug/L	0.10	.074	74	54 - 138	T
gamma-BHC (Lindane)	ug/L	0.10	.096	96	59 - 134	T
beta-BHC	ug/L	0.10	.11	108	56 - 136	T
delta-BHC	ug/L	0.10	.097	97	52 - 142	T
Heptachlor	ug/L	0.10	.096	97	54 - 130	T
Aldrin	ug/L	0.10	.073	73	45 - 134	T
Heptachlor Epoxide	ug/L	0.10	.11	108	61 - 133	T
Endosulfan I	ug/L	0.10	.1	104	62 - 126	T
4,4`-DDE	ug/L	0.10	.079	79	57 - 135	T
Dieldrin	ug/L	0.10	.095	95	60 - 136	T
Endrin	ug/L	0.10	.098	98	60 - 138	T
4,4`-DDD	ug/L	0.10	.1	105	56 - 143	T
Endosulfan II	ug/L	0.10	.1	101	52 - 135	T

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FINAL

Workorder: N.F. CROP DUSTING (G2304761)

QC Batch: GCSt/3391
Preparation Method: SW-846 3510C
Associated Lab IDs: G2304761001, G2304761002

Analysis Method: EPA 8081

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Endrin Aldehyde	ug/L	0.10	.088	88	51 - 132	T
4,4`-DDT	ug/L	0.10	.088	88	51 - 143	T
Endosulfan Sulfate	ug/L	0.10	.11	108	62 - 133	T
Methoxychlor	ug/L	0.10	.093	93	54 - 145	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0.000420	84	48 - 137	T
Tetrachloro-m-xylene (S)	mg/L	0.0010	0.000730	73	44 - 124	T

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Workorder: N.F. CROP DUSTING (G2304761)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
GCSt/3391 - EPA 8081			
G2304761001	MW-06	EXTt/4223	SW-846 3510C
G2304761002	MW-09	EXTt/4223	SW-846 3510C

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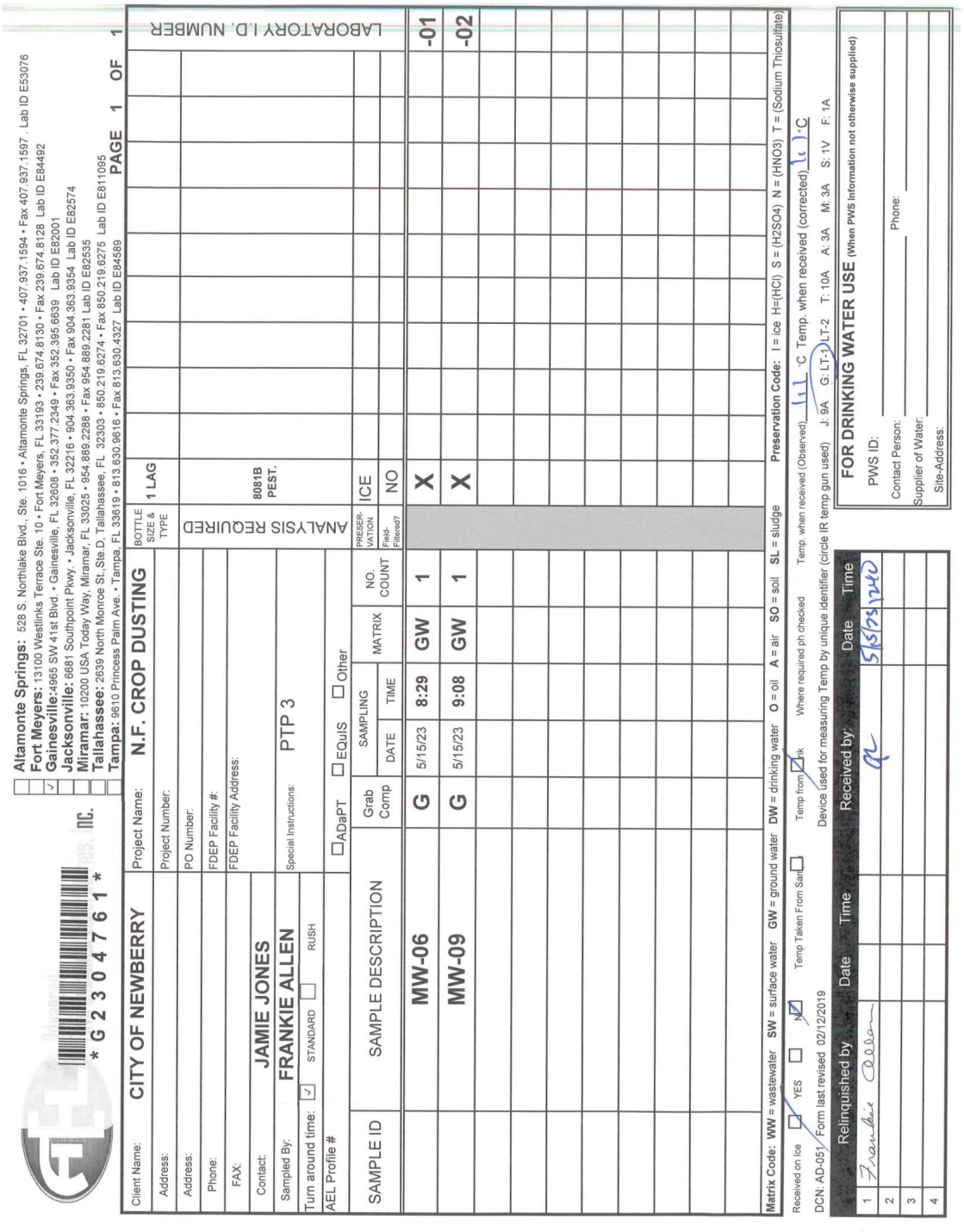
Workorder: N.F. CROP DUSTING (G2304761)



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Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327 Lab ID E84589

PAGE 1 OF 1

* G 2 3 0 4 7 6 1 *

Client Name: CITY OF NEWBERRY
Address:
Address:
Phone:
FAX:
Contact: JAMIE JONES
Sampled By: FRANKIE ALLEN
Turn around time: ☑ STANDARD ☐ RUSH
AEL Profile #

Project Name: N.F. CROP DUSTING
Project Number:
PO Number:
FDEP Facility #:
FDEP Facility Address:
Special Instructions: PTP 3

☐ADaPT ☐EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	ANALYSIS REQUIRED 1 LAG 8081B PEST.	PRESERVATION Field-Filtered?	ICE	NO	LABORATORY I.D. NUMBER
	MW-06	G	5/15/23	8:29	GW	1				X		-01
	MW-09	G	5/15/23	9:08	GW	1				X		-02

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)
Received on Ice ☐ YES ☐ ☑ Temp Taken From Sam ☐ Temp from ☑ Ink Where required ph checked Temp. when received (Observed) 1.1 °C Temp. when received (corrected) 1.1 °C
DCN: AD-051 Form last revised 02/12/2019 Device Used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A

	Relinquished by	Date	Time	Received by:	Date	Time
1	Frankie Allen			AL	5/15/23	1420
2						
3						
4						

FOR DRINKING WATER USE (When PWS Information not otherwise supplied)
PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

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FINAL

Workorder: N.F. CROP DUSTING (G2304761)

GROUNDWATER SAMPLING LOG

SITE NAME:	CITY OF NEWBERRY	SITE LOCATION:	N.F. CROPDUSTING
WELL #:	MW-06	Sample ID #:	DATE: 5/15/23

PURGING DATA

WELL DIAMETER (INCHES)	TUBING DIAMETER (Inches)	WELL SCREEN INTERVAL (FT)			STATIC DEPTH TO WATER (FT)	PURGE PUMP TYPE
4"	3/8"	Z	TO	Z	38.85	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable)	=									
	=	52.40	-	38.85	=	13.55	X	0.65	=	8.81

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

(only fill out if applicable)	=									
	=	Z	+	Z	X	Z	+	Z	=	Z

INITIAL PUMP OR TUBING DEPTH IN WELL		FINAL PUMP OR TUBING DEPTH IN WELL		Purging initiated at:	Purging ended at:	Total volume purged: (Gallons)
41.00	FEET	41.00	FEET	7:58	8:27	13.5

TIME	VOLUME PURGED (gallons)	CUMMULITIVE GAL. PURGED	PURGE RATE (GPM)	TEMP. DEG. (C)	DO (MG/L)	SPEC.COND. (UMHOS)	pH (standard units)	TURBIDITY (NTU)	DEPTH TO WATER (FT)	COLOR (describe)	ODOR (describe)
8:17	9.00	9.00	0.473	23.4	7.81	182	7.05	3.27	39.35	NONE	NONE
8:22	2.25	11.25	0.450	23.4	7.86	183	7.09	2.34	39.35	NONE	NONE
8:27	2.25	13.50	0.450	23.4	7.77	189	7.13	1.51	39.35	NONE	NONE
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: B = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **APP**=After Peristalyic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY AND AFFILIATION:	SAMPLER SIGNATURE:	Sampling initiated at:	Sampling ended at:
Frankie Allen / AEL	Frankie Allen	8:27	8:29

FINAL PUMP OR TUBING DEPTH IN WELL :	Tubing Material Code:	Field Filtered:	Z	Filter size :	Z
41 FEET	LDPE	Filtration Equip. Type :		Z	

FIELD DECONTAMINATION :	PUMP?	YES ☑	NO ☐	Pump Tubing?	YES ☑	NO ☐	DUPLICATE ?	YES ☐	NO ☑
TUBING DEDICATED ?	YES ☐	NO ☑							

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL. ADDED IN FIELD	pH			
Z	1	AG	1L	ICE	Z	7.13	8081B	ESP	< 400
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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FINAL

Workorder: N.F. CROP DUSTING (G2304761)

GROUNDWATER SAMPLING LOG

SITE NAME:	CITY OF NEWBERRY	SITE LOCATION:	N.F. CROPDUSTING
WELL #:	MW-09	Sample ID #:	DATE: 5/15/23

PURGING DATA

WELL DIAMETER (INCHES)	TUBING DIAMETER (Inches)	WELL SCREEN INTERVAL (FT)			STATIC DEPTH TO WATER (FT)	PURGE PUMP TYPE
4"	3/8"	Z	TO	Z	37.73	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable)	=	48.35	-	37.73	=	10.62	X	0.65	=	6.90

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

(only fill out if applicable)	=	Z	+	Z	X	Z	+	Z	=	Z

INITIAL PUMP OR TUBING DEPTH IN WELL		FINAL PUMP OR TUBING DEPTH IN WELL		Purging initiated at:	Purging ended at:	Total volume purged: (Gallons)
41.00	FEET	41.00	FEET	8:47	9:06	10.5

TIME	VOLUME PURGED (gallons)	CUMMULITIVE GAL. PURGED	PURGE RATE (GPM)	TEMP. DEG. (C)	DO (MG/L)	SPEC.COND. (UMHOS)	pH (standard units)	TURBIDITY (NTU)	DEPTH TO WATER (FT)	COLOR (describe)	ODOR (describe)
9:00	7.00	7.00	0.54	23.3	6.30	425	6.89	0.87	37.78	NONE	NONE
9:03	1.75	8.75	0.58	23.3	6.36	427	6.91	0.97	37.78	NONE	NONE
9:06	1.75	10.50	0.58	23.4	6.32	428	6.92	1.41	37.78	NONE	NONE
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; APP=After Peristalyic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY AND AFFILIATION:	SAMPLER SIGNATURE:	Sampling initiated at:	Sampling ended at:
Frankie Allen / AEL	Frankie Allen	9:06	9:08

FINAL PUMP OR TUBING DEPTH IN WELL :	Tubing Material Code:	Field Filtered:	Z	Filter size :	Z
41 FEET	LDPE	Filtration Equip. Type :		Z	

FIELD DECONTAMINATION :	PUMP?	YES ☑	NO ☐	Pump Tubing?	YES ☑	NO ☐	DUPLICATE ?	YES ☐	NO ☑

TUBING DEDICATED ? YES ☐ NO ☑

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL. ADDED IN FIELD	pH			
Z	1	AG	1L	ICE	Z	6.92	8081B	ESP	< 400
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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FINAL

Workorder: N.F. CROP DUSTING (G2304761)

GROUNDWATER SAMPLING LOG

SITE NAME:	CITY OF NEWBERRY	SITE LOCATION:	N.F. CROPDUSTING
WELL #:	MW-07	Sample ID #:	DATE: 5/15/23

PURGING DATA

WELL DIAMETER (INCHES)	TUBING DIAMETER (Inches)	WELL SCREEN INTERVAL (FT)			STATIC DEPTH TO WATER (FT)	PURGE PUMP TYPE
4"	Z	Z	TO	Z	38.84	Z

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable)	=									
	=	46.30	-	Z	=	Z	X	Z	=	Z

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

(only fill out if applicable)	=									
	=	Z	+	Z	X	Z	+	Z	=	Z

INITIAL PUMP OR TUBING DEPTH IN WELL		FINAL PUMP OR TUBING DEPTH IN WELL		Purging initiated at:	Purging ended at:	Total volume purged: (Gallons)
Z	FEET	Z	FEET	Z	Z	Z

TIME	VOLUME PURGED (gallons)	CUMMULITIVE GAL. PURGED	PURGE RATE (GPM)	TEMP. DEG. (C)	DO (MG/L)	SPEC.COND. (UMHOS)	pH (standard units)	TURBIDITY (NTU)	DEPTH TO WATER (FT)	COLOR (describe)	ODOR (describe)
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: B = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **APP**=After Peristalyic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY AND AFFILIATION:	SAMPLER SIGNATURE:	Sampling initiated at:	Sampling ended at:
Frankie Allen / AEL	Frankie Allen	Z	Z

FINAL PUMP OR TUBING DEPTH IN WELL :	Tubing Material Code:	Field Filtered:	Z	Filter size :	Z
Z FEET	Z	Filtration Equip. Type :		Z	

FIELD DECONTAMINATION :	PUMP?	YES ☐	NO ☐	Pump Tubing?	YES ☐	NO ☐	DUPLICATE ?	YES ☐	NO ☐
TUBING DEDICATED ?	YES ☐	NO ☐							

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL. ADDED IN FIELD	pH			
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

REMARKS: WATER LEVEL ONLY

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Fax: (352) 395-6639

FINAL

Workorder: N.F. CROP DUSTING (G2304761)

GROUNDWATER SAMPLING LOG

SITE NAME:	CITY OF NEWBERRY	SITE LOCATION:	N.F. CROPDUSTING
WELL #:	MW-08	Sample ID #:	DATE: 5/15/23

PURGING DATA

WELL DIAMETER (INCHES)	TUBING DIAMETER (Inches)	WELL SCREEN INTERVAL (FT)			STATIC DEPTH TO WATER (FT)	PURGE PUMP TYPE
4"	Z	Z	TO	Z	39.71	Z

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

(only fill out if applicable)	=									
	=	48.15	-	Z	=	Z	X	Z	=	Z

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

(only fill out if applicable)	=									
	=	Z	+	Z	X	Z	+	Z	=	Z

INITIAL PUMP OR TUBING DEPTH IN WELL		FINAL PUMP OR TUBING DEPTH IN WELL		Purging initiated at:	Purging ended at:	Total volume purged: (Gallons)
Z	FEET	Z	FEET	Z	Z	Z

TIME	VOLUME PURGED (gallons)	CUMMULITIVE GAL. PURGED	PURGE RATE (GPM)	TEMP. DEG. (C)	DO (MG/L)	SPEC.COND. (UMHOS)	pH (standard units)	TURBIDITY (NTU)	DEPTH TO WATER (FT)	COLOR (describe)	ODOR (describe)
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: B = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **APP**=After Peristalyic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY AND AFFILIATION:	SAMPLER SIGNATURE:	Sampling initiated at:	Sampling ended at:
Frankie Allen / AEL	Frankie Allen	Z	Z

FINAL PUMP OR TUBING DEPTH IN WELL :	Tubing Material Code:	Field Filtered:	Z	Filter size :	Z
Z FEET	Z	Filtration Equip. Type :		Z	

FIELD DECONTAMINATION :	PUMP?	YES ☐	NO ☐	Pump Tubing?	YES ☐	NO ☐	DUPLICATE ?	YES ☐	NO ☐
TUBING DEDICATED ?	YES ☐	NO ☐							

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL. ADDED IN FIELD	pH			
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

REMARKS: WATER LEVEL ONLY

MATERIAL CODES: AG = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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Fax: (352) 395-6639

FINAL

Workorder: N.F. CROP DUSTING (G2304761)

ADVANCED ENVIROMENTAL LABORATORIES INC

FIELD YSI MULTI-METER & HACH 2100Q

DAILY CCV FOR FIELD METERS

YSI PRO PLUS- METER ID :	2149	HACH 2100Q TURBIDITY ID:	501
YSI PRO PLUS- PROBE ID :	0122		

PRE WORK DAY CHECK DATE: 5/15/2023 TIME: 7:25

PH 7 BUFFER VALUE :	7.00	+ / - .2 PH UNITS 6.80-7.20	READING:	7.10
PH 7 BUFFER ID :	GL2-19E1 EXP. 4/23	pH 7= -60mV to +60mV	mV READING:	-6.9
COND. STAND. VALUE:	1412	+ / - 5% 1341 TO 1483	READING:	1417
COND. STAND. ID:	4WC-54A1	MADE: 10/3/2022	EXP. 10/3/2023	

pH 4 should be at least 165 mV more positive than pH 7 , pH 10 should be at least 165 mV more negative than pH 7

DO TEMP.FROM METER :	READING:	22.3	
DO MG/L CHART:	READING:	8.69	
DO MG/L FROM METER :	READING:	8.74	
DO % READING FROM METER:	READING:	100.5	

TURBIDITY STD:	6.16	RANGE (5.55-6.77)	READING:	6.22
TURBIDITY STD ID:	GELEX SECOUNDARY STD. LOT # A9035		CERTIFIED ON 1/31/23	

C.C.V. CHECK DONE BEFORE FIELD USE BY : Frankie Allen

POST WORK DAY CHECK DATE: 5/15/2023 TIME: 9:15

PH 7 BUFFER VALUE :	7.00	+ / - .2 PH UNITS 6.80-7.20	READING:	7.08
PH 7 BUFFER ID :	GL2-19E1 EXP. 4/23	pH 7= -60mV to +60mV	mV READING:	-5.8
COND. STAND. VALUE:	1412	+ / - 5% 1341 TO 1483	READING:	1420
COND. STAND. ID:	4WC-54A1	MADE: 10/3/2022	EXP. 10/3/2023	

pH 4 should be at least 165 mV more positive than pH 7 , pH 10 should be at least 165 mV more negative than pH 7

DO TEMP.FROM METER :	READING:	24.2	
DO MG/L CHART:	READING:	8.39	
DO MG/L FROM METER :	READING:	8.43	
DO % READING FROM METER:	READING:	100.5	

TURBIDITY STD:	6.16	RANGE (5.55-6.77)	READING:	6.24
TURBIDITY STD ID:	GELEX SECOUNDARY STD. LOT # A9035		CERTIFIED ON 1/31/23	

C.C.V. CHECK DONE AFTER FIELD USE BY : Frankie Allen

Last Maint. Date: Maint. Type:

DCN:GEN-D051m
Eff 10/25/16

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APPENDIX C

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

June 16, 2023

Jay Nordqvist
GSE Engineering
5590 SW 64th St. Suite B
Gainesville, FL 32608

RE: Workorder: G2305105 NEWBERRY WWTF 16024A

Dear Jay Nordqvist:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday May 25, 2023. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Desmond Brady

Desmond Brady
DBrady@aellab.com

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported	Basis
G2305105001	B7-0-0.5	SO	EPA 8081	05/25/2023 10:00	05/25/2023 13:55	19	Dry
G2305105001	B7-0-0.5	SO	SM 2540G	05/25/2023 10:00	05/25/2023 13:55	1	Dry
G2305105002	B7-0.5-2	SO	EPA 8081	05/25/2023 10:00	05/25/2023 13:55	19	Dry
G2305105002	B7-0.5-2	SO	SM 2540G	05/25/2023 10:00	05/25/2023 13:55	1	Dry
G2305105003	B7-2-4	SO	EPA 8081	05/25/2023 10:00	05/25/2023 13:55	19	Dry
G2305105003	B7-2-4	SO	SM 2540G	05/25/2023 10:00	05/25/2023 13:55	1	Dry
G2305105004	B6-0-0.5	SO	EPA 8081	05/25/2023 10:30	05/25/2023 13:55	19	Dry
G2305105004	B6-0-0.5	SO	SM 2540G	05/25/2023 10:30	05/25/2023 13:55	1	Dry
G2305105005	B6-0.5-2	SO	EPA 8081	05/25/2023 10:30	05/25/2023 13:55	19	Dry
G2305105005	B6-0.5-2	SO	SM 2540G	05/25/2023 10:30	05/25/2023 13:55	1	Dry
G2305105006	B6-2-4	SO	EPA 8081	05/25/2023 10:30	05/25/2023 13:55	19	Dry
G2305105006	B6-2-4	SO	SM 2540G	05/25/2023 10:30	05/25/2023 13:55	1	Dry
G2305105007	B5-0-0.5	SO	EPA 8081	05/25/2023 11:00	05/25/2023 13:55	19	Dry
G2305105007	B5-0-0.5	SO	SM 2540G	05/25/2023 11:00	05/25/2023 13:55	1	Dry
G2305105008	B5-0.5-2	SO	EPA 8081	05/25/2023 11:00	05/25/2023 13:55	19	Dry
G2305105008	B5-0.5-2	SO	SM 2540G	05/25/2023 11:00	05/25/2023 13:55	1	Dry
G2305105009	B5-2-4	SO	EPA 8081	05/25/2023 11:00	05/25/2023 13:55	19	Dry
G2305105009	B5-2-4	SO	SM 2540G	05/25/2023 11:00	05/25/2023 13:55	1	Dry
G2305105010	B4-0-0.5	SO	EPA 8081	05/25/2023 11:15	05/25/2023 13:55	19	Dry
G2305105010	B4-0-0.5	SO	SM 2540G	05/25/2023 11:15	05/25/2023 13:55	1	Dry
G2305105011	B4-0.5-2	SO	EPA 8081	05/25/2023 11:15	05/25/2023 13:55	19	Dry
G2305105011	B4-0.5-2	SO	SM 2540G	05/25/2023 11:15	05/25/2023 13:55	1	Dry
G2305105012	B4-2-4	SO	EPA 8081	05/25/2023 11:15	05/25/2023 13:55	19	Dry
G2305105012	B4-2-4	SO	SM 2540G	05/25/2023 11:15	05/25/2023 13:55	1	Dry
G2305105013	B3-0-0.5	SO	EPA 8081	05/25/2023 12:15	05/25/2023 13:55	19	Dry
G2305105013	B3-0-0.5	SO	SM 2540G	05/25/2023 12:15	05/25/2023 13:55	1	Dry
G2305105014	B3-0.5-2	SO	EPA 8081	05/25/2023 12:15	05/25/2023 13:55	19	Dry
G2305105014	B3-0.5-2	SO	SM 2540G	05/25/2023 12:15	05/25/2023 13:55	1	Dry
G2305105015	B3-2-4	SO	EPA 8081	05/25/2023 12:15	05/25/2023 13:55	19	Dry
G2305105015	B3-2-4	SO	SM 2540G	05/25/2023 12:15	05/25/2023 13:55	1	Dry
G2305105016	B2-0-0.5	SO	EPA 8081	05/25/2023 12:40	05/25/2023 13:55	19	Dry
G2305105016	B2-0-0.5	SO	SM 2540G	05/25/2023 12:40	05/25/2023 13:55	1	Dry
G2305105017	B2-0.5-2	SO	EPA 8081	05/25/2023 12:40	05/25/2023 13:55	19	Dry
G2305105017	B2-0.5-2	SO	SM 2540G	05/25/2023 12:40	05/25/2023 13:55	1	Dry
G2305105018	B2-2-4	SO	EPA 8081	05/25/2023 12:40	05/25/2023 13:55	19	Dry

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported	Basis
G2305105018	B2-2-4	SO	SM 2540G	05/25/2023 12:40	05/25/2023 13:55	1	Dry
G2305105019	B1-0-0.5	SO	EPA 8081	05/25/2023 12:15	05/25/2023 13:55	19	Dry
G2305105019	B1-0-0.5	SO	SM 2540G	05/25/2023 12:15	05/25/2023 13:55	1	Dry
G2305105020	B1-0.5-2	SO	EPA 8081	05/25/2023 12:15	05/25/2023 13:55	19	Dry
G2305105020	B1-0.5-2	SO	SM 2540G	05/25/2023 12:15	05/25/2023 13:55	1	Dry
G2305105021	B1-2-4	SO	EPA 8081	05/25/2023 12:15	05/25/2023 13:55	19	Dry
G2305105021	B1-2-4	SO	SM 2540G	05/25/2023 12:15	05/25/2023 13:55	1	Dry

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Workorder Summary

Batch Comments

GCSt/3434 - 8081/8082/608 Analysis,Soil

The matrix spike duplicate (MSD) recoveries of multiple analytes for G2304998001 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and in the Labo and Matrix Spike (MS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential bias in this matrix.. No further corrective action is required.

The samples T2310314006 and T2310311005 were diluted prior to instrumental analysis. The extracts were highly colored and viscous which indicated the need to perform a dilution prior to injection into the instrument.

The control criteria for the surrogate in G2305105004, T2310314006 and T2310311005 are not applicable. The chromatogram indicated the presence of high background components that masked the surrogate, which prevented adequate resolution for quantitation. The affected surrogates are qualified to indicate matrix interference.

GCSt/3454 - 8081/8082/608 Analysis,Soil

The control criteria for the surrogate in G2305105007, 008, 010, 011, 019 are not applicable. The chromatogram indicated the presence of high background components that masked the surrogate, which prevented adequate resolution for quantitation. The affected surrogates are qualified to indicate matrix interference.

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results Qualifiers

Parameter Qualifiers

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Lab Qualifiers

J	DOH Certification #E82574 (FL NELAC) AEL-Jacksonville DOD-ELAP Certification #L21-470 (ISO/IEC 17025:2017) AEL-Jacksonville
T	DOH Certification #E84589 (FL NELAC) AEL-Tampa

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105001 **Date Collected:** 05/25/2023 10:00 **Matrix:** Soil
Sample ID: B7-0-0.5 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00012 U	mg/Kg	0.0022	0.00012	1	05/31/2023 14:30	06/02/2023 17:40	T
4,4`-DDE	0.00060 U	mg/Kg	0.0022	0.00060	1	05/31/2023 14:30	06/02/2023 17:40	T
4,4`-DDT	0.00060 U	mg/Kg	0.0022	0.00060	1	05/31/2023 14:30	06/02/2023 17:40	T
Aldrin	0.00056 U	mg/Kg	0.0022	0.00056	1	05/31/2023 14:30	06/02/2023 17:40	T
Chlordane (technical)	0.012 U	mg/Kg	0.022	0.012	1	05/31/2023 14:30	06/02/2023 17:40	T
Dieldrin	0.00044 U	mg/Kg	0.00066	0.00044	1	05/31/2023 14:30	06/02/2023 17:40	T
Endosulfan I	0.00049 U	mg/Kg	0.0022	0.00049	1	05/31/2023 14:30	06/02/2023 17:40	T
Endosulfan II	0.00063 U	mg/Kg	0.0022	0.00063	1	05/31/2023 14:30	06/02/2023 17:40	T
Endosulfan Sulfate	0.00090 U	mg/Kg	0.0022	0.00090	1	05/31/2023 14:30	06/02/2023 17:40	T
Endrin	0.00058 U	mg/Kg	0.0022	0.00058	1	05/31/2023 14:30	06/02/2023 17:40	T
Endrin Aldehyde	0.00098 U	mg/Kg	0.0022	0.00098	1	05/31/2023 14:30	06/02/2023 17:40	T
Heptachlor	0.0014 U	mg/Kg	0.0022	0.0014	1	05/31/2023 14:30	06/02/2023 17:40	T
Heptachlor Epoxide	0.00067 U	mg/Kg	0.0022	0.00067	1	05/31/2023 14:30	06/02/2023 17:40	T
Methoxychlor	0.00014 U	mg/Kg	0.0022	0.00014	1	05/31/2023 14:30	06/02/2023 17:40	T
Toxaphene	0.012 U	mg/Kg	0.022	0.012	1	05/31/2023 14:30	06/02/2023 17:40	T
alpha-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	05/31/2023 14:30	06/02/2023 17:40	T
beta-BHC	0.00080 U	mg/Kg	0.0022	0.00080	1	05/31/2023 14:30	06/02/2023 17:40	T
delta-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	05/31/2023 14:30	06/02/2023 17:40	T
gamma-BHC (Lindane)	0.00064 U	mg/Kg	0.0022	0.00064	1	05/31/2023 14:30	06/02/2023 17:40	T
(SM 2540G)								
Percent Moisture	**10**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	13	67	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	39	28	70	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105002 **Date Collected:** 05/25/2023 10:00 **Matrix:** Soil
Sample ID: B7-0.5-2 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00011 U	mg/Kg	0.0021	0.00011	1	05/31/2023 14:30	06/02/2023 17:57	T
4,4`-DDE	0.00058 U	mg/Kg	0.0021	0.00058	1	05/31/2023 14:30	06/02/2023 17:57	T
4,4`-DDT	0.00058 U	mg/Kg	0.0021	0.00058	1	05/31/2023 14:30	06/02/2023 17:57	T
Aldrin	0.00054 U	mg/Kg	0.0021	0.00054	1	05/31/2023 14:30	06/02/2023 17:57	T
Chlordane (technical)	0.012 U	mg/Kg	0.021	0.012	1	05/31/2023 14:30	06/02/2023 17:57	T
Dieldrin	0.00042 U	mg/Kg	0.00063	0.00042	1	05/31/2023 14:30	06/02/2023 17:57	T
Endosulfan I	0.00047 U	mg/Kg	0.0021	0.00047	1	05/31/2023 14:30	06/02/2023 17:57	T
Endosulfan II	0.00060 U	mg/Kg	0.0021	0.00060	1	05/31/2023 14:30	06/02/2023 17:57	T
Endosulfan Sulfate	0.00086 U	mg/Kg	0.0021	0.00086	1	05/31/2023 14:30	06/02/2023 17:57	T
Endrin	0.00056 U	mg/Kg	0.0021	0.00056	1	05/31/2023 14:30	06/02/2023 17:57	T
Endrin Aldehyde	0.00094 U	mg/Kg	0.0021	0.00094	1	05/31/2023 14:30	06/02/2023 17:57	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	05/31/2023 14:30	06/02/2023 17:57	T
Heptachlor Epoxide	0.00065 U	mg/Kg	0.0021	0.00065	1	05/31/2023 14:30	06/02/2023 17:57	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	05/31/2023 14:30	06/02/2023 17:57	T
Toxaphene	0.011 U	mg/Kg	0.021	0.011	1	05/31/2023 14:30	06/02/2023 17:57	T
alpha-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	05/31/2023 14:30	06/02/2023 17:57	T
beta-BHC	0.00077 U	mg/Kg	0.0021	0.00077	1	05/31/2023 14:30	06/02/2023 17:57	T
delta-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	05/31/2023 14:30	06/02/2023 17:57	T
gamma-BHC (Lindane)	0.00062 U	mg/Kg	0.0021	0.00062	1	05/31/2023 14:30	06/02/2023 17:57	T
(SM 2540G)								
Percent Moisture	**5.8**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	14	68	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	27	67	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105003 **Date Collected:** 05/25/2023 10:00 **Matrix:** Soil
Sample ID: B7-2-4 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00012 U	mg/Kg	0.0022	0.00012	1	05/31/2023 14:30	06/02/2023 18:13	T
4,4`-DDE	0.00059 U	mg/Kg	0.0022	0.00059	1	05/31/2023 14:30	06/02/2023 18:13	T
4,4`-DDT	0.00060 U	mg/Kg	0.0022	0.00060	1	05/31/2023 14:30	06/02/2023 18:13	T
Aldrin	0.00055 U	mg/Kg	0.0022	0.00055	1	05/31/2023 14:30	06/02/2023 18:13	T
Chlordane (technical)	0.012 U	mg/Kg	0.022	0.012	1	05/31/2023 14:30	06/02/2023 18:13	T
Dieldrin	0.00043 U	mg/Kg	0.00065	0.00043	1	05/31/2023 14:30	06/02/2023 18:13	T
Endosulfan I	0.00048 U	mg/Kg	0.0022	0.00048	1	05/31/2023 14:30	06/02/2023 18:13	T
Endosulfan II	0.00062 U	mg/Kg	0.0022	0.00062	1	05/31/2023 14:30	06/02/2023 18:13	T
Endosulfan Sulfate	0.00088 U	mg/Kg	0.0022	0.00088	1	05/31/2023 14:30	06/02/2023 18:13	T
Endrin	0.00057 U	mg/Kg	0.0022	0.00057	1	05/31/2023 14:30	06/02/2023 18:13	T
Endrin Aldehyde	0.00097 U	mg/Kg	0.0022	0.00097	1	05/31/2023 14:30	06/02/2023 18:13	T
Heptachlor	0.0014 U	mg/Kg	0.0022	0.0014	1	05/31/2023 14:30	06/02/2023 18:13	T
Heptachlor Epoxide	0.00066 U	mg/Kg	0.0022	0.00066	1	05/31/2023 14:30	06/02/2023 18:13	T
Methoxychlor	0.00014 U	mg/Kg	0.0022	0.00014	1	05/31/2023 14:30	06/02/2023 18:13	T
Toxaphene	0.012 U	mg/Kg	0.022	0.012	1	05/31/2023 14:30	06/02/2023 18:13	T
alpha-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	05/31/2023 14:30	06/02/2023 18:13	T
beta-BHC	0.00079 U	mg/Kg	0.0022	0.00079	1	05/31/2023 14:30	06/02/2023 18:13	T
delta-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	05/31/2023 14:30	06/02/2023 18:13	T
gamma-BHC (Lindane)	0.00063 U	mg/Kg	0.0022	0.00063	1	05/31/2023 14:30	06/02/2023 18:13	T
(SM 2540G)								
Percent Moisture	**8.5**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	18	90	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	39	37	93	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105004 **Date Collected:** 05/25/2023 10:30 **Matrix:** Soil
Sample ID: B6-0-0.5 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00012 U	mg/Kg	0.0022	0.00012	1	05/31/2023 14:30	06/02/2023 18:29	T
4,4`-DDE	0.00060 U	mg/Kg	0.0022	0.00060	1	05/31/2023 14:30	06/02/2023 18:29	T
4,4`-DDT	0.00060 U	mg/Kg	0.0022	0.00060	1	05/31/2023 14:30	06/02/2023 18:29	T
Aldrin	0.00056 U	mg/Kg	0.0022	0.00056	1	05/31/2023 14:30	06/02/2023 18:29	T
Chlordane (technical)	0.012 U	mg/Kg	0.022	0.012	1	05/31/2023 14:30	06/02/2023 18:29	T
Dieldrin	0.00044 U	mg/Kg	0.00066	0.00044	1	05/31/2023 14:30	06/02/2023 18:29	T
Endosulfan I	**0.00067 I**	mg/Kg	0.0022	0.00049	1	05/31/2023 14:30	06/02/2023 18:29	T
Endosulfan II	0.00063 U	mg/Kg	0.0022	0.00063	1	05/31/2023 14:30	06/02/2023 18:29	T
Endosulfan Sulfate	0.00090 U	mg/Kg	0.0022	0.00090	1	05/31/2023 14:30	06/02/2023 18:29	T
Endrin	0.00058 U	mg/Kg	0.0022	0.00058	1	05/31/2023 14:30	06/02/2023 18:29	T
Endrin Aldehyde	0.00098 U	mg/Kg	0.0022	0.00098	1	05/31/2023 14:30	06/02/2023 18:29	T
Heptachlor	0.0014 U	mg/Kg	0.0022	0.0014	1	05/31/2023 14:30	06/02/2023 18:29	T
Heptachlor Epoxide	0.00067 U	mg/Kg	0.0022	0.00067	1	05/31/2023 14:30	06/02/2023 18:29	T
Methoxychlor	0.00014 U	mg/Kg	0.0022	0.00014	1	05/31/2023 14:30	06/02/2023 18:29	T
Toxaphene	0.012 U	mg/Kg	0.022	0.012	1	05/31/2023 14:30	06/02/2023 18:29	T
alpha-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	05/31/2023 14:30	06/02/2023 18:29	T
beta-BHC	0.00080 U	mg/Kg	0.0022	0.00080	1	05/31/2023 14:30	06/02/2023 18:29	T
delta-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	05/31/2023 14:30	06/02/2023 18:29	T
gamma-BHC (Lindane)	0.00064 U	mg/Kg	0.0022	0.00064	1	05/31/2023 14:30	06/02/2023 18:29	T
(SM 2540G)								
Percent Moisture	**9.9**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	11	**55**	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	39	24	61	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105005 **Date Collected:** 05/25/2023 10:30 **Matrix:** Soil
Sample ID: B6-0.5-2 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00011 U	mg/Kg	0.0021	0.00011	1	05/31/2023 14:30	06/02/2023 18:45	T
4,4`-DDE	0.00057 U	mg/Kg	0.0021	0.00057	1	05/31/2023 14:30	06/02/2023 18:45	T
4,4`-DDT	0.00058 U	mg/Kg	0.0021	0.00058	1	05/31/2023 14:30	06/02/2023 18:45	T
Aldrin	0.00054 U	mg/Kg	0.0021	0.00054	1	05/31/2023 14:30	06/02/2023 18:45	T
Chlordane (technical)	0.012 U	mg/Kg	0.021	0.012	1	05/31/2023 14:30	06/02/2023 18:45	T
Dieldrin	0.00042 U	mg/Kg	0.00063	0.00042	1	05/31/2023 14:30	06/02/2023 18:45	T
Endosulfan I	0.00046 U	mg/Kg	0.0021	0.00046	1	05/31/2023 14:30	06/02/2023 18:45	T
Endosulfan II	0.00060 U	mg/Kg	0.0021	0.00060	1	05/31/2023 14:30	06/02/2023 18:45	T
Endosulfan Sulfate	0.00086 U	mg/Kg	0.0021	0.00086	1	05/31/2023 14:30	06/02/2023 18:45	T
Endrin	0.00055 U	mg/Kg	0.0021	0.00055	1	05/31/2023 14:30	06/02/2023 18:45	T
Endrin Aldehyde	0.00094 U	mg/Kg	0.0021	0.00094	1	05/31/2023 14:30	06/02/2023 18:45	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	05/31/2023 14:30	06/02/2023 18:45	T
Heptachlor Epoxide	0.00065 U	mg/Kg	0.0021	0.00065	1	05/31/2023 14:30	06/02/2023 18:45	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	05/31/2023 14:30	06/02/2023 18:45	T
Toxaphene	0.011 U	mg/Kg	0.021	0.011	1	05/31/2023 14:30	06/02/2023 18:45	T
alpha-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	05/31/2023 14:30	06/02/2023 18:45	T
beta-BHC	0.00076 U	mg/Kg	0.0021	0.00076	1	05/31/2023 14:30	06/02/2023 18:45	T
delta-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	05/31/2023 14:30	06/02/2023 18:45	T
gamma-BHC (Lindane)	0.00062 U	mg/Kg	0.0021	0.00062	1	05/31/2023 14:30	06/02/2023 18:45	T
(SM 2540G)								
Percent Moisture	**6.0**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	16	82	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	39	33	85	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105006 **Date Collected:** 05/25/2023 10:30 **Matrix:** Soil
Sample ID: B6-2-4 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00012 U	mg/Kg	0.0022	0.00012	1	05/31/2023 14:30	06/02/2023 19:01	T
4,4`-DDE	0.00060 U	mg/Kg	0.0022	0.00060	1	05/31/2023 14:30	06/02/2023 19:01	T
4,4`-DDT	0.00060 U	mg/Kg	0.0022	0.00060	1	05/31/2023 14:30	06/02/2023 19:01	T
Aldrin	0.00056 U	mg/Kg	0.0022	0.00056	1	05/31/2023 14:30	06/02/2023 19:01	T
Chlordane (technical)	0.012 U	mg/Kg	0.022	0.012	1	05/31/2023 14:30	06/02/2023 19:01	T
Dieldrin	0.00043 U	mg/Kg	0.00065	0.00043	1	05/31/2023 14:30	06/02/2023 19:01	T
Endosulfan I	0.00048 U	mg/Kg	0.0022	0.00048	1	05/31/2023 14:30	06/02/2023 19:01	T
Endosulfan II	0.00062 U	mg/Kg	0.0022	0.00062	1	05/31/2023 14:30	06/02/2023 19:01	T
Endosulfan Sulfate	0.00089 U	mg/Kg	0.0022	0.00089	1	05/31/2023 14:30	06/02/2023 19:01	T
Endrin	0.00057 U	mg/Kg	0.0022	0.00057	1	05/31/2023 14:30	06/02/2023 19:01	T
Endrin Aldehyde	0.00097 U	mg/Kg	0.0022	0.00097	1	05/31/2023 14:30	06/02/2023 19:01	T
Heptachlor	0.0014 U	mg/Kg	0.0022	0.0014	1	05/31/2023 14:30	06/02/2023 19:01	T
Heptachlor Epoxide	0.00067 U	mg/Kg	0.0022	0.00067	1	05/31/2023 14:30	06/02/2023 19:01	T
Methoxychlor	0.00014 U	mg/Kg	0.0022	0.00014	1	05/31/2023 14:30	06/02/2023 19:01	T
Toxaphene	0.012 U	mg/Kg	0.022	0.012	1	05/31/2023 14:30	06/02/2023 19:01	T
alpha-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	05/31/2023 14:30	06/02/2023 19:01	T
beta-BHC	0.00079 U	mg/Kg	0.0022	0.00079	1	05/31/2023 14:30	06/02/2023 19:01	T
delta-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	05/31/2023 14:30	06/02/2023 19:01	T
gamma-BHC (Lindane)	0.00064 U	mg/Kg	0.0022	0.00064	1	05/31/2023 14:30	06/02/2023 19:01	T
(SM 2540G)								
Percent Moisture	**8.3**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	18	88	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	37	92	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105007 **Date Collected:** 05/25/2023 11:00 **Matrix:** Soil
Sample ID: B5-0-0.5 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00012 U	mg/Kg	0.0022	0.00012	1	06/05/2023 11:55	06/06/2023 16:51	T
4,4`-DDE	0.00059 U	mg/Kg	0.0022	0.00059	1	06/05/2023 11:55	06/06/2023 16:51	T
4,4`-DDT	0.00060 U	mg/Kg	0.0022	0.00060	1	06/05/2023 11:55	06/06/2023 16:51	T
Aldrin	0.00055 U	mg/Kg	0.0022	0.00055	1	06/05/2023 11:55	06/06/2023 16:51	T
Chlordane (technical)	0.012 U	mg/Kg	0.022	0.012	1	06/05/2023 11:55	06/06/2023 16:51	T
Dieldrin	0.00043 U	mg/Kg	0.00065	0.00043	1	06/05/2023 11:55	06/06/2023 16:51	T
Endosulfan I	0.00048 U	mg/Kg	0.0022	0.00048	1	06/05/2023 11:55	06/06/2023 16:51	T
Endosulfan II	0.00062 U	mg/Kg	0.0022	0.00062	1	06/05/2023 11:55	06/06/2023 16:51	T
Endosulfan Sulfate	0.00089 U	mg/Kg	0.0022	0.00089	1	06/05/2023 11:55	06/06/2023 16:51	T
Endrin	0.00057 U	mg/Kg	0.0022	0.00057	1	06/05/2023 11:55	06/06/2023 16:51	T
Endrin Aldehyde	0.00097 U	mg/Kg	0.0022	0.00097	1	06/05/2023 11:55	06/06/2023 16:51	T
Heptachlor	0.0014 U	mg/Kg	0.0022	0.0014	1	06/05/2023 11:55	06/06/2023 16:51	T
Heptachlor Epoxide	0.00067 U	mg/Kg	0.0022	0.00067	1	06/05/2023 11:55	06/06/2023 16:51	T
Methoxychlor	0.00014 U	mg/Kg	0.0022	0.00014	1	06/05/2023 11:55	06/06/2023 16:51	T
Toxaphene	0.012 U	mg/Kg	0.022	0.012	1	06/05/2023 11:55	06/06/2023 16:51	T
alpha-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	06/05/2023 11:55	06/06/2023 16:51	T
beta-BHC	0.00079 U	mg/Kg	0.0022	0.00079	1	06/05/2023 11:55	06/06/2023 16:51	T
delta-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	06/05/2023 11:55	06/06/2023 16:51	T
gamma-BHC (Lindane)	0.00064 U	mg/Kg	0.0022	0.00064	1	06/05/2023 11:55	06/06/2023 16:51	T
(SM 2540G)								
Percent Moisture	**8.3**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	10	**52**	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	24	60	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105008 **Date Collected:** 05/25/2023 11:00 **Matrix:** Soil
Sample ID: B5-0.5-2 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00011 U	mg/Kg	0.0021	0.00011	1	06/05/2023 11:55	06/06/2023 17:07	T
4,4`-DDE	0.00058 U	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 17:07	T
4,4`-DDT	0.00058 U	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 17:07	T
Aldrin	0.00054 U	mg/Kg	0.0021	0.00054	1	06/05/2023 11:55	06/06/2023 17:07	T
Chlordane (technical)	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 17:07	T
Dieldrin	0.00042 U	mg/Kg	0.00063	0.00042	1	06/05/2023 11:55	06/06/2023 17:07	T
Endosulfan I	0.00047 U	mg/Kg	0.0021	0.00047	1	06/05/2023 11:55	06/06/2023 17:07	T
Endosulfan II	0.00060 U	mg/Kg	0.0021	0.00060	1	06/05/2023 11:55	06/06/2023 17:07	T
Endosulfan Sulfate	0.00087 U	mg/Kg	0.0021	0.00087	1	06/05/2023 11:55	06/06/2023 17:07	T
Endrin	0.00056 U	mg/Kg	0.0021	0.00056	1	06/05/2023 11:55	06/06/2023 17:07	T
Endrin Aldehyde	0.00095 U	mg/Kg	0.0021	0.00095	1	06/05/2023 11:55	06/06/2023 17:07	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	06/05/2023 11:55	06/06/2023 17:07	T
Heptachlor Epoxide	0.00065 U	mg/Kg	0.0021	0.00065	1	06/05/2023 11:55	06/06/2023 17:07	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	06/05/2023 11:55	06/06/2023 17:07	T
Toxaphene	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 17:07	T
alpha-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	06/05/2023 11:55	06/06/2023 17:07	T
beta-BHC	0.00077 U	mg/Kg	0.0021	0.00077	1	06/05/2023 11:55	06/06/2023 17:07	T
delta-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	06/05/2023 11:55	06/06/2023 17:07	T
gamma-BHC (Lindane)	0.00062 U	mg/Kg	0.0021	0.00062	1	06/05/2023 11:55	06/06/2023 17:07	T
(SM 2540G)								
Percent Moisture	**6.5**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	11	**54**	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	39	24	60	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105009 **Date Collected:** 05/25/2023 11:00 **Matrix:** Soil
Sample ID: B5-2-4 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00011 U	mg/Kg	0.0021	0.00011	1	06/05/2023 11:55	06/06/2023 17:07	T
4,4`-DDE	0.00058 U	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 17:07	T
4,4`-DDT	0.00058 U	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 17:07	T
Aldrin	0.00054 U	mg/Kg	0.0021	0.00054	1	06/05/2023 11:55	06/06/2023 17:07	T
Chlordane (technical)	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 17:07	T
Dieldrin	0.00042 U	mg/Kg	0.00063	0.00042	1	06/05/2023 11:55	06/06/2023 17:07	T
Endosulfan I	0.00047 U	mg/Kg	0.0021	0.00047	1	06/05/2023 11:55	06/06/2023 17:07	T
Endosulfan II	0.00060 U	mg/Kg	0.0021	0.00060	1	06/05/2023 11:55	06/06/2023 17:07	T
Endosulfan Sulfate	0.00087 U	mg/Kg	0.0021	0.00087	1	06/05/2023 11:55	06/06/2023 17:07	T
Endrin	0.00056 U	mg/Kg	0.0021	0.00056	1	06/05/2023 11:55	06/06/2023 17:07	T
Endrin Aldehyde	0.00095 U	mg/Kg	0.0021	0.00095	1	06/05/2023 11:55	06/06/2023 17:07	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	06/05/2023 11:55	06/06/2023 17:07	T
Heptachlor Epoxide	0.00065 U	mg/Kg	0.0021	0.00065	1	06/05/2023 11:55	06/06/2023 17:07	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	06/05/2023 11:55	06/06/2023 17:07	T
Toxaphene	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 17:07	T
alpha-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	06/05/2023 11:55	06/06/2023 17:07	T
beta-BHC	0.00077 U	mg/Kg	0.0021	0.00077	1	06/05/2023 11:55	06/06/2023 17:07	T
delta-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	06/05/2023 11:55	06/06/2023 17:07	T
gamma-BHC (Lindane)	0.00062 U	mg/Kg	0.0021	0.00062	1	06/05/2023 11:55	06/06/2023 17:07	T
(SM 2540G)								
Percent Moisture	**6.2**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	13	63	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	28	71	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105010 **Date Collected:** 05/25/2023 11:15 **Matrix:** Soil
Sample ID: B4-0-0.5 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00011 U	mg/Kg	0.0021	0.00011	1	06/05/2023 11:55	06/06/2023 17:39	T
4,4`-DDE	0.00058 U	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 17:39	T
4,4`-DDT	0.00059 U	mg/Kg	0.0021	0.00059	1	06/05/2023 11:55	06/06/2023 17:39	T
Aldrin	0.00054 U	mg/Kg	0.0021	0.00054	1	06/05/2023 11:55	06/06/2023 17:39	T
Chlordane (technical)	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 17:39	T
Dieldrin	0.00043 U	mg/Kg	0.00064	0.00043	1	06/05/2023 11:55	06/06/2023 17:39	T
Endosulfan I	0.00047 U	mg/Kg	0.0021	0.00047	1	06/05/2023 11:55	06/06/2023 17:39	T
Endosulfan II	0.00061 U	mg/Kg	0.0021	0.00061	1	06/05/2023 11:55	06/06/2023 17:39	T
Endosulfan Sulfate	0.00087 U	mg/Kg	0.0021	0.00087	1	06/05/2023 11:55	06/06/2023 17:39	T
Endrin	0.00056 U	mg/Kg	0.0021	0.00056	1	06/05/2023 11:55	06/06/2023 17:39	T
Endrin Aldehyde	0.00095 U	mg/Kg	0.0021	0.00095	1	06/05/2023 11:55	06/06/2023 17:39	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	06/05/2023 11:55	06/06/2023 17:39	T
Heptachlor Epoxide	0.00066 U	mg/Kg	0.0021	0.00066	1	06/05/2023 11:55	06/06/2023 17:39	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	06/05/2023 11:55	06/06/2023 17:39	T
Toxaphene	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 17:39	T
alpha-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	06/05/2023 11:55	06/06/2023 17:39	T
beta-BHC	0.00077 U	mg/Kg	0.0021	0.00077	1	06/05/2023 11:55	06/06/2023 17:39	T
delta-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	06/05/2023 11:55	06/06/2023 17:39	T
gamma-BHC (Lindane)	0.00063 U	mg/Kg	0.0021	0.00063	1	06/05/2023 11:55	06/06/2023 17:39	T
(SM 2540G)								
Percent Moisture	**7.0**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	12	**62**	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	27	68	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105011 **Date Collected:** 05/25/2023 11:15 **Matrix:** Soil
Sample ID: B4-0.5-2 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00011 U	mg/Kg	0.0021	0.00011	1	06/05/2023 11:55	06/06/2023 17:55	T
4,4`-DDE	0.00058 U	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 17:55	T
4,4`-DDT	0.00059 U	mg/Kg	0.0021	0.00059	1	06/05/2023 11:55	06/06/2023 17:55	T
Aldrin	0.00054 U	mg/Kg	0.0021	0.00054	1	06/05/2023 11:55	06/06/2023 17:55	T
Chlordane (technical)	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 17:55	T
Dieldrin	0.00043 U	mg/Kg	0.00064	0.00043	1	06/05/2023 11:55	06/06/2023 17:55	T
Endosulfan I	0.00047 U	mg/Kg	0.0021	0.00047	1	06/05/2023 11:55	06/06/2023 17:55	T
Endosulfan II	0.00061 U	mg/Kg	0.0021	0.00061	1	06/05/2023 11:55	06/06/2023 17:55	T
Endosulfan Sulfate	0.00087 U	mg/Kg	0.0021	0.00087	1	06/05/2023 11:55	06/06/2023 17:55	T
Endrin	0.00056 U	mg/Kg	0.0021	0.00056	1	06/05/2023 11:55	06/06/2023 17:55	T
Endrin Aldehyde	0.00095 U	mg/Kg	0.0021	0.00095	1	06/05/2023 11:55	06/06/2023 17:55	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	06/05/2023 11:55	06/06/2023 17:55	T
Heptachlor Epoxide	0.00066 U	mg/Kg	0.0021	0.00066	1	06/05/2023 11:55	06/06/2023 17:55	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	06/05/2023 11:55	06/06/2023 17:55	T
Toxaphene	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 17:55	T
alpha-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	06/05/2023 11:55	06/06/2023 17:55	T
beta-BHC	0.00077 U	mg/Kg	0.0021	0.00077	1	06/05/2023 11:55	06/06/2023 17:55	T
delta-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	06/05/2023 11:55	06/06/2023 17:55	T
gamma-BHC (Lindane)	0.00063 U	mg/Kg	0.0021	0.00063	1	06/05/2023 11:55	06/06/2023 17:55	T
(SM 2540G)								
Percent Moisture	**6.0**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	11	**55**	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	27	67	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105012 **Date Collected:** 05/25/2023 11:15 **Matrix:** Soil
Sample ID: B4-2-4 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00011 U	mg/Kg	0.0021	0.00011	1	06/05/2023 11:55	06/06/2023 18:11	T
4,4`-DDE	0.00056 U	mg/Kg	0.0021	0.00056	1	06/05/2023 11:55	06/06/2023 18:11	T
4,4`-DDT	0.00057 U	mg/Kg	0.0021	0.00057	1	06/05/2023 11:55	06/06/2023 18:11	T
Aldrin	0.00053 U	mg/Kg	0.0021	0.00053	1	06/05/2023 11:55	06/06/2023 18:11	T
Chlordane (technical)	0.011 U	mg/Kg	0.021	0.011	1	06/05/2023 11:55	06/06/2023 18:11	T
Dieldrin	0.00041 U	mg/Kg	0.00062	0.00041	1	06/05/2023 11:55	06/06/2023 18:11	T
Endosulfan I	0.00046 U	mg/Kg	0.0021	0.00046	1	06/05/2023 11:55	06/06/2023 18:11	T
Endosulfan II	0.00059 U	mg/Kg	0.0021	0.00059	1	06/05/2023 11:55	06/06/2023 18:11	T
Endosulfan Sulfate	0.00084 U	mg/Kg	0.0021	0.00084	1	06/05/2023 11:55	06/06/2023 18:11	T
Endrin	0.00054 U	mg/Kg	0.0021	0.00054	1	06/05/2023 11:55	06/06/2023 18:11	T
Endrin Aldehyde	0.00092 U	mg/Kg	0.0021	0.00092	1	06/05/2023 11:55	06/06/2023 18:11	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	06/05/2023 11:55	06/06/2023 18:11	T
Heptachlor Epoxide	0.00063 U	mg/Kg	0.0021	0.00063	1	06/05/2023 11:55	06/06/2023 18:11	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	06/05/2023 11:55	06/06/2023 18:11	T
Toxaphene	0.011 U	mg/Kg	0.021	0.011	1	06/05/2023 11:55	06/06/2023 18:11	T
alpha-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	06/05/2023 11:55	06/06/2023 18:11	T
beta-BHC	0.00075 U	mg/Kg	0.0021	0.00075	1	06/05/2023 11:55	06/06/2023 18:11	T
delta-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	06/05/2023 11:55	06/06/2023 18:11	T
gamma-BHC (Lindane)	0.00061 U	mg/Kg	0.0021	0.00061	1	06/05/2023 11:55	06/06/2023 18:11	T
(SM 2540G)								
Percent Moisture	**4.0**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	16	78	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	35	87	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105013 **Date Collected:** 05/25/2023 12:15 **Matrix:** Soil
Sample ID: B3-0-0.5 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00011 U	mg/Kg	0.0021	0.00011	1	06/05/2023 11:55	06/06/2023 18:28	T
4,4`-DDE	0.00058 U	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 18:28	T
4,4`-DDT	**0.0016 I**	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 18:28	T
Aldrin	0.00054 U	mg/Kg	0.0021	0.00054	1	06/05/2023 11:55	06/06/2023 18:28	T
Chlordane (technical)	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 18:28	T
Dieldrin	0.00042 U	mg/Kg	0.00063	0.00042	1	06/05/2023 11:55	06/06/2023 18:28	T
Endosulfan I	0.00047 U	mg/Kg	0.0021	0.00047	1	06/05/2023 11:55	06/06/2023 18:28	T
Endosulfan II	0.00060 U	mg/Kg	0.0021	0.00060	1	06/05/2023 11:55	06/06/2023 18:28	T
Endosulfan Sulfate	0.00086 U	mg/Kg	0.0021	0.00086	1	06/05/2023 11:55	06/06/2023 18:28	T
Endrin	**0.00057 I**	mg/Kg	0.0021	0.00056	1	06/05/2023 11:55	06/06/2023 18:28	T
Endrin Aldehyde	0.00094 U	mg/Kg	0.0021	0.00094	1	06/05/2023 11:55	06/06/2023 18:28	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	06/05/2023 11:55	06/06/2023 18:28	T
Heptachlor Epoxide	0.00065 U	mg/Kg	0.0021	0.00065	1	06/05/2023 11:55	06/06/2023 18:28	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	06/05/2023 11:55	06/06/2023 18:28	T
Toxaphene	0.011 U	mg/Kg	0.021	0.011	1	06/05/2023 11:55	06/06/2023 18:28	T
alpha-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	06/05/2023 11:55	06/06/2023 18:28	T
beta-BHC	0.00077 U	mg/Kg	0.0021	0.00077	1	06/05/2023 11:55	06/06/2023 18:28	T
delta-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	06/05/2023 11:55	06/06/2023 18:28	T
gamma-BHC (Lindane)	0.00062 U	mg/Kg	0.0021	0.00062	1	06/05/2023 11:55	06/06/2023 18:28	T
(SM 2540G)								
Percent Moisture	**5.8**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	13	66	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	30	76	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105014 **Date Collected:** 05/25/2023 12:15 **Matrix:** Soil
Sample ID: B3-0.5-2 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00012 U	mg/Kg	0.0022	0.00012	1	06/05/2023 11:55	06/06/2023 18:44	T
4,4`-DDE	0.00060 U	mg/Kg	0.0022	0.00060	1	06/05/2023 11:55	06/06/2023 18:44	T
4,4`-DDT	0.00061 U	mg/Kg	0.0022	0.00061	1	06/05/2023 11:55	06/06/2023 18:44	T
Aldrin	0.00056 U	mg/Kg	0.0022	0.00056	1	06/05/2023 11:55	06/06/2023 18:44	T
Chlordane (technical)	0.012 U	mg/Kg	0.022	0.012	1	06/05/2023 11:55	06/06/2023 18:44	T
Dieldrin	0.00044 U	mg/Kg	0.00066	0.00044	1	06/05/2023 11:55	06/06/2023 18:44	T
Endosulfan I	0.00049 U	mg/Kg	0.0022	0.00049	1	06/05/2023 11:55	06/06/2023 18:44	T
Endosulfan II	0.00063 U	mg/Kg	0.0022	0.00063	1	06/05/2023 11:55	06/06/2023 18:44	T
Endosulfan Sulfate	0.00090 U	mg/Kg	0.0022	0.00090	1	06/05/2023 11:55	06/06/2023 18:44	T
Endrin	0.00058 U	mg/Kg	0.0022	0.00058	1	06/05/2023 11:55	06/06/2023 18:44	T
Endrin Aldehyde	0.00098 U	mg/Kg	0.0022	0.00098	1	06/05/2023 11:55	06/06/2023 18:44	T
Heptachlor	0.0014 U	mg/Kg	0.0022	0.0014	1	06/05/2023 11:55	06/06/2023 18:44	T
Heptachlor Epoxide	0.00068 U	mg/Kg	0.0022	0.00068	1	06/05/2023 11:55	06/06/2023 18:44	T
Methoxychlor	0.00014 U	mg/Kg	0.0022	0.00014	1	06/05/2023 11:55	06/06/2023 18:44	T
Toxaphene	0.012 U	mg/Kg	0.022	0.012	1	06/05/2023 11:55	06/06/2023 18:44	T
alpha-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	06/05/2023 11:55	06/06/2023 18:44	T
beta-BHC	0.00080 U	mg/Kg	0.0022	0.00080	1	06/05/2023 11:55	06/06/2023 18:44	T
delta-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	06/05/2023 11:55	06/06/2023 18:44	T
gamma-BHC (Lindane)	0.00065 U	mg/Kg	0.0022	0.00065	1	06/05/2023 11:55	06/06/2023 18:44	T
(SM 2540G)								
Percent Moisture	**9.1**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	17	87	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	39	97	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105015 **Date Collected:** 05/25/2023 12:15 **Matrix:** Soil
Sample ID: B3-2-4 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00012 U	mg/Kg	0.0022	0.00012	1	06/05/2023 11:55	06/06/2023 19:00	T
4,4`-DDE	0.00061 U	mg/Kg	0.0022	0.00061	1	06/05/2023 11:55	06/06/2023 19:00	T
4,4`-DDT	0.00061 U	mg/Kg	0.0022	0.00061	1	06/05/2023 11:55	06/06/2023 19:00	T
Aldrin	0.00057 U	mg/Kg	0.0022	0.00057	1	06/05/2023 11:55	06/06/2023 19:00	T
Chlordane (technical)	0.012 U	mg/Kg	0.022	0.012	1	06/05/2023 11:55	06/06/2023 19:00	T
Dieldrin	0.00045 U	mg/Kg	0.00067	0.00045	1	06/05/2023 11:55	06/06/2023 19:00	T
Endosulfan I	0.00049 U	mg/Kg	0.0022	0.00049	1	06/05/2023 11:55	06/06/2023 19:00	T
Endosulfan II	0.00064 U	mg/Kg	0.0022	0.00064	1	06/05/2023 11:55	06/06/2023 19:00	T
Endosulfan Sulfate	0.00091 U	mg/Kg	0.0022	0.00091	1	06/05/2023 11:55	06/06/2023 19:00	T
Endrin	0.00059 U	mg/Kg	0.0022	0.00059	1	06/05/2023 11:55	06/06/2023 19:00	T
Endrin Aldehyde	0.0010 U	mg/Kg	0.0022	0.0010	1	06/05/2023 11:55	06/06/2023 19:00	T
Heptachlor	0.0015 U	mg/Kg	0.0022	0.0015	1	06/05/2023 11:55	06/06/2023 19:00	T
Heptachlor Epoxide	0.00069 U	mg/Kg	0.0022	0.00069	1	06/05/2023 11:55	06/06/2023 19:00	T
Methoxychlor	0.00015 U	mg/Kg	0.0022	0.00015	1	06/05/2023 11:55	06/06/2023 19:00	T
Toxaphene	0.012 U	mg/Kg	0.022	0.012	1	06/05/2023 11:55	06/06/2023 19:00	T
alpha-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	06/05/2023 11:55	06/06/2023 19:00	T
beta-BHC	0.00081 U	mg/Kg	0.0022	0.00081	1	06/05/2023 11:55	06/06/2023 19:00	T
delta-BHC	0.00019 U	mg/Kg	0.0022	0.00019	1	06/05/2023 11:55	06/06/2023 19:00	T
gamma-BHC (Lindane)	0.00065 U	mg/Kg	0.0022	0.00065	1	06/05/2023 11:55	06/06/2023 19:00	T
(SM 2540G)								
Percent Moisture	**10**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	17	84	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	39	98	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105016 **Date Collected:** 05/25/2023 12:40 **Matrix:** Soil
Sample ID: B2-0-0.5 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00011 U	mg/Kg	0.0021	0.00011	1	06/05/2023 11:55	06/06/2023 19:16	T
4,4`-DDE	0.00058 U	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 19:16	T
4,4`-DDT	**0.0021**	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 19:16	T
Aldrin	0.00054 U	mg/Kg	0.0021	0.00054	1	06/05/2023 11:55	06/06/2023 19:16	T
Chlordane (technical)	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 19:16	T
Dieldrin	0.00042 U	mg/Kg	0.00063	0.00042	1	06/05/2023 11:55	06/06/2023 19:16	T
Endosulfan I	**0.00063 I**	mg/Kg	0.0021	0.00047	1	06/05/2023 11:55	06/06/2023 19:16	T
Endosulfan II	0.00060 U	mg/Kg	0.0021	0.00060	1	06/05/2023 11:55	06/06/2023 19:16	T
Endosulfan Sulfate	0.00086 U	mg/Kg	0.0021	0.00086	1	06/05/2023 11:55	06/06/2023 19:16	T
Endrin	0.00056 U	mg/Kg	0.0021	0.00056	1	06/05/2023 11:55	06/06/2023 19:16	T
Endrin Aldehyde	0.00094 U	mg/Kg	0.0021	0.00094	1	06/05/2023 11:55	06/06/2023 19:16	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	06/05/2023 11:55	06/06/2023 19:16	T
Heptachlor Epoxide	0.00065 U	mg/Kg	0.0021	0.00065	1	06/05/2023 11:55	06/06/2023 19:16	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	06/05/2023 11:55	06/06/2023 19:16	T
Toxaphene	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 19:16	T
alpha-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	06/05/2023 11:55	06/06/2023 19:16	T
beta-BHC	0.00077 U	mg/Kg	0.0021	0.00077	1	06/05/2023 11:55	06/06/2023 19:16	T
delta-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	06/05/2023 11:55	06/06/2023 19:16	T
gamma-BHC (Lindane)	0.00062 U	mg/Kg	0.0021	0.00062	1	06/05/2023 11:55	06/06/2023 19:16	T
(SM 2540G)								
Percent Moisture	**6.1**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	13	68	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	30	77	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105017 **Date Collected:** 05/25/2023 12:40 **Matrix:** Soil
Sample ID: B2-0.5-2 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00012 U	mg/Kg	0.0021	0.00012	1	06/05/2023 11:55	06/06/2023 19:32	T
4,4`-DDE	0.00058 U	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 19:32	T
4,4`-DDT	0.00059 U	mg/Kg	0.0021	0.00059	1	06/05/2023 11:55	06/06/2023 19:32	T
Aldrin	0.00055 U	mg/Kg	0.0021	0.00055	1	06/05/2023 11:55	06/06/2023 19:32	T
Chlordane (technical)	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 19:32	T
Dieldrin	0.00043 U	mg/Kg	0.00064	0.00043	1	06/05/2023 11:55	06/06/2023 19:32	T
Endosulfan I	0.00047 U	mg/Kg	0.0021	0.00047	1	06/05/2023 11:55	06/06/2023 19:32	T
Endosulfan II	0.00061 U	mg/Kg	0.0021	0.00061	1	06/05/2023 11:55	06/06/2023 19:32	T
Endosulfan Sulfate	0.00088 U	mg/Kg	0.0021	0.00088	1	06/05/2023 11:55	06/06/2023 19:32	T
Endrin	0.00056 U	mg/Kg	0.0021	0.00056	1	06/05/2023 11:55	06/06/2023 19:32	T
Endrin Aldehyde	0.00096 U	mg/Kg	0.0021	0.00096	1	06/05/2023 11:55	06/06/2023 19:32	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	06/05/2023 11:55	06/06/2023 19:32	T
Heptachlor Epoxide	0.00066 U	mg/Kg	0.0021	0.00066	1	06/05/2023 11:55	06/06/2023 19:32	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	06/05/2023 11:55	06/06/2023 19:32	T
Toxaphene	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 19:32	T
alpha-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	06/05/2023 11:55	06/06/2023 19:32	T
beta-BHC	0.00078 U	mg/Kg	0.0021	0.00078	1	06/05/2023 11:55	06/06/2023 19:32	T
delta-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	06/05/2023 11:55	06/06/2023 19:32	T
gamma-BHC (Lindane)	0.00063 U	mg/Kg	0.0021	0.00063	1	06/05/2023 11:55	06/06/2023 19:32	T
(SM 2540G)								
Percent Moisture	**6.7**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	13	67	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	30	75	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105018 **Date Collected:** 05/25/2023 12:40 **Matrix:** Soil
Sample ID: B2-2-4 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00011 U	mg/Kg	0.0021	0.00011	1	06/05/2023 11:55	06/06/2023 19:49	T
4,4`-DDE	0.00058 U	mg/Kg	0.0021	0.00058	1	06/05/2023 11:55	06/06/2023 19:49	T
4,4`-DDT	0.00059 U	mg/Kg	0.0021	0.00059	1	06/05/2023 11:55	06/06/2023 19:49	T
Aldrin	0.00055 U	mg/Kg	0.0021	0.00055	1	06/05/2023 11:55	06/06/2023 19:49	T
Chlordane (technical)	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 19:49	T
Dieldrin	0.00043 U	mg/Kg	0.00064	0.00043	1	06/05/2023 11:55	06/06/2023 19:49	T
Endosulfan I	0.00047 U	mg/Kg	0.0021	0.00047	1	06/05/2023 11:55	06/06/2023 19:49	T
Endosulfan II	0.00061 U	mg/Kg	0.0021	0.00061	1	06/05/2023 11:55	06/06/2023 19:49	T
Endosulfan Sulfate	0.00087 U	mg/Kg	0.0021	0.00087	1	06/05/2023 11:55	06/06/2023 19:49	T
Endrin	0.00056 U	mg/Kg	0.0021	0.00056	1	06/05/2023 11:55	06/06/2023 19:49	T
Endrin Aldehyde	0.00095 U	mg/Kg	0.0021	0.00095	1	06/05/2023 11:55	06/06/2023 19:49	T
Heptachlor	0.0014 U	mg/Kg	0.0021	0.0014	1	06/05/2023 11:55	06/06/2023 19:49	T
Heptachlor Epoxide	0.00066 U	mg/Kg	0.0021	0.00066	1	06/05/2023 11:55	06/06/2023 19:49	T
Methoxychlor	0.00014 U	mg/Kg	0.0021	0.00014	1	06/05/2023 11:55	06/06/2023 19:49	T
Toxaphene	0.012 U	mg/Kg	0.021	0.012	1	06/05/2023 11:55	06/06/2023 19:49	T
alpha-BHC	0.00017 U	mg/Kg	0.0021	0.00017	1	06/05/2023 11:55	06/06/2023 19:49	T
beta-BHC	0.00078 U	mg/Kg	0.0021	0.00078	1	06/05/2023 11:55	06/06/2023 19:49	T
delta-BHC	0.00018 U	mg/Kg	0.0021	0.00018	1	06/05/2023 11:55	06/06/2023 19:49	T
gamma-BHC (Lindane)	0.00063 U	mg/Kg	0.0021	0.00063	1	06/05/2023 11:55	06/06/2023 19:49	T
(SM 2540G)								
Percent Moisture	**7.2**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	13	64	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	31	78	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105019 **Date Collected:** 05/25/2023 12:15 **Matrix:** Soil
Sample ID: B1-0-0.5 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00012 U	mg/Kg	0.0022	0.00012	1	06/05/2023 11:55	06/06/2023 20:05	T
4,4`-DDE	0.00059 U	mg/Kg	0.0022	0.00059	1	06/05/2023 11:55	06/06/2023 20:05	T
4,4`-DDT	0.00060 U	mg/Kg	0.0022	0.00060	1	06/05/2023 11:55	06/06/2023 20:05	T
Aldrin	0.00055 U	mg/Kg	0.0022	0.00055	1	06/05/2023 11:55	06/06/2023 20:05	T
Chlordane (technical)	0.012 U	mg/Kg	0.022	0.012	1	06/05/2023 11:55	06/06/2023 20:05	T
Dieldrin	0.00043 U	mg/Kg	0.00065	0.00043	1	06/05/2023 11:55	06/06/2023 20:05	T
Endosulfan I	0.00048 U	mg/Kg	0.0022	0.00048	1	06/05/2023 11:55	06/06/2023 20:05	T
Endosulfan II	0.00062 U	mg/Kg	0.0022	0.00062	1	06/05/2023 11:55	06/06/2023 20:05	T
Endosulfan Sulfate	0.00089 U	mg/Kg	0.0022	0.00089	1	06/05/2023 11:55	06/06/2023 20:05	T
Endrin	0.00057 U	mg/Kg	0.0022	0.00057	1	06/05/2023 11:55	06/06/2023 20:05	T
Endrin Aldehyde	0.00097 U	mg/Kg	0.0022	0.00097	1	06/05/2023 11:55	06/06/2023 20:05	T
Heptachlor	0.0014 U	mg/Kg	0.0022	0.0014	1	06/05/2023 11:55	06/06/2023 20:05	T
Heptachlor Epoxide	0.00067 U	mg/Kg	0.0022	0.00067	1	06/05/2023 11:55	06/06/2023 20:05	T
Methoxychlor	0.00014 U	mg/Kg	0.0022	0.00014	1	06/05/2023 11:55	06/06/2023 20:05	T
Toxaphene	0.012 U	mg/Kg	0.022	0.012	1	06/05/2023 11:55	06/06/2023 20:05	T
alpha-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	06/05/2023 11:55	06/06/2023 20:05	T
beta-BHC	0.00079 U	mg/Kg	0.0022	0.00079	1	06/05/2023 11:55	06/06/2023 20:05	T
delta-BHC	0.00018 U	mg/Kg	0.0022	0.00018	1	06/05/2023 11:55	06/06/2023 20:05	T
gamma-BHC (Lindane)	0.00064 U	mg/Kg	0.0022	0.00064	1	06/05/2023 11:55	06/06/2023 20:05	T
(SM 2540G)								
Percent Moisture	**7.5**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	11	**53**	63 - 130	T
Tetrachloro-m-xylene (S)	ug/Kg	40	25	62	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105020 **Date Collected:** 05/25/2023 12:15 **Matrix:** Soil
Sample ID: B1-0.5-2 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00014 U	mg/Kg	0.00085	0.00014	1	06/05/2023 11:55	06/15/2023 18:33	J
4,4`-DDE	0.00011 U	mg/Kg	0.00085	0.00011	1	06/05/2023 11:55	06/15/2023 18:33	J
4,4`-DDT	0.00024 U	mg/Kg	0.00085	0.00024	1	06/05/2023 11:55	06/15/2023 18:33	J
Aldrin	0.00013 U	mg/Kg	0.00085	0.00013	1	06/05/2023 11:55	06/15/2023 18:33	J
Chlordane (technical)	0.0034 U	mg/Kg	0.0085	0.0034	1	06/05/2023 11:55	06/15/2023 18:33	J
Dieldrin	0.00011 U	mg/Kg	0.00085	0.00011	1	06/05/2023 11:55	06/15/2023 18:33	J
Endosulfan I	0.00013 U	mg/Kg	0.00085	0.00013	1	06/05/2023 11:55	06/15/2023 18:33	J
Endosulfan II	0.000091 U	mg/Kg	0.00085	0.000091	1	06/05/2023 11:55	06/15/2023 18:33	J
Endosulfan Sulfate	0.00015 U	mg/Kg	0.00085	0.00015	1	06/05/2023 11:55	06/15/2023 18:33	J
Endrin	0.00023 U	mg/Kg	0.00085	0.00023	1	06/05/2023 11:55	06/15/2023 18:33	J
Endrin Aldehyde	0.00014 U	mg/Kg	0.00085	0.00014	1	06/05/2023 11:55	06/15/2023 18:33	J
Heptachlor	0.00016 U	mg/Kg	0.00085	0.00016	1	06/05/2023 11:55	06/15/2023 18:33	J
Heptachlor Epoxide	0.00012 U	mg/Kg	0.00085	0.00012	1	06/05/2023 11:55	06/15/2023 18:33	J
Methoxychlor	0.00017 U	mg/Kg	0.00085	0.00017	1	06/05/2023 11:55	06/15/2023 18:33	J
Toxaphene	0.0060 U	mg/Kg	0.0085	0.0060	1	06/05/2023 11:55	06/15/2023 18:33	J
alpha-BHC	0.00014 U	mg/Kg	0.00085	0.00014	1	06/05/2023 11:55	06/15/2023 18:33	J
beta-BHC	0.000098 U	mg/Kg	0.00085	0.000098	1	06/05/2023 11:55	06/15/2023 18:33	J
delta-BHC	0.00010 U	mg/Kg	0.00085	0.00010	1	06/05/2023 11:55	06/15/2023 18:33	J
gamma-BHC (Lindane)	0.00015 U	mg/Kg	0.00085	0.00015	1	06/05/2023 11:55	06/15/2023 18:33	J
(SM 2540G)								
Percent Moisture	**6.7**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	13	65	63 - 130	J^
Tetrachloro-m-xylene (S)	ug/Kg	40	26	66	42 - 129	J

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Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Lab ID: G2305105021 **Date Collected:** 05/25/2023 12:15 **Matrix:** Soil
Sample ID: B1-2-4 **Date Received:** 05/25/2023 13:55

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
SEMIVOLATILES (SW-846 3550B/EPA 8081)								
4,4`-DDD	0.00014 U	mg/Kg	0.00084	0.00014	1	06/05/2023 11:55	06/15/2023 18:54	J
4,4`-DDE	0.00010 U	mg/Kg	0.00084	0.00010	1	06/05/2023 11:55	06/15/2023 18:54	J
4,4`-DDT	0.00023 U	mg/Kg	0.00084	0.00023	1	06/05/2023 11:55	06/15/2023 18:54	J
Aldrin	0.00012 U	mg/Kg	0.00084	0.00012	1	06/05/2023 11:55	06/15/2023 18:54	J
Chlordane (technical)	0.0034 U	mg/Kg	0.0084	0.0034	1	06/05/2023 11:55	06/15/2023 18:54	J
Dieldrin	0.00011 U	mg/Kg	0.00084	0.00011	1	06/05/2023 11:55	06/15/2023 18:54	J
Endosulfan I	0.00013 U	mg/Kg	0.00084	0.00013	1	06/05/2023 11:55	06/15/2023 18:54	J
Endosulfan II	0.000090 U	mg/Kg	0.00084	0.000090	1	06/05/2023 11:55	06/15/2023 18:54	J
Endosulfan Sulfate	0.00015 U	mg/Kg	0.00084	0.00015	1	06/05/2023 11:55	06/15/2023 18:54	J
Endrin	0.00023 U	mg/Kg	0.00084	0.00023	1	06/05/2023 11:55	06/15/2023 18:54	J
Endrin Aldehyde	0.00014 U	mg/Kg	0.00084	0.00014	1	06/05/2023 11:55	06/15/2023 18:54	J
Heptachlor	0.00016 U	mg/Kg	0.00084	0.00016	1	06/05/2023 11:55	06/15/2023 18:54	J
Heptachlor Epoxide	0.00011 U	mg/Kg	0.00084	0.00011	1	06/05/2023 11:55	06/15/2023 18:54	J
Methoxychlor	0.00017 U	mg/Kg	0.00084	0.00017	1	06/05/2023 11:55	06/15/2023 18:54	J
Toxaphene	0.0059 U	mg/Kg	0.0084	0.0059	1	06/05/2023 11:55	06/15/2023 18:54	J
alpha-BHC	0.00014 U	mg/Kg	0.00084	0.00014	1	06/05/2023 11:55	06/15/2023 18:54	J
beta-BHC	0.000097 U	mg/Kg	0.00084	0.000097	1	06/05/2023 11:55	06/15/2023 18:54	J
delta-BHC	0.000099 U	mg/Kg	0.00084	0.000099	1	06/05/2023 11:55	06/15/2023 18:54	J
gamma-BHC (Lindane)	0.00015 U	mg/Kg	0.00084	0.00015	1	06/05/2023 11:55	06/15/2023 18:54	J
(SM 2540G)								
Percent Moisture	**6.3**	%	0.0010	0.0010	1	05/26/2023 10:00	05/26/2023 10:00	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	ug/Kg	20	13	66	63 - 130	J^
Tetrachloro-m-xylene (S)	ug/Kg	39	25	65	42 - 129	J

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Workorder: NEWBERRY WWTF 16024A (G2305105)

QC Results

QC Batch: GCSj/4949 **Analysis Method:** EPA 8081
Preparation Method: SW-846 3550B
Associated Lab IDs: G2305105007, G2305105008, G2305105009, G2305105010, G2305105011, G2305105012, G2305105013, G2305105014, G2305105015, G2305105016, G2305105017, G2305105018, G2305105019, G2305105020, G2305105021

Lab Control Sample (4817795)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
alpha-BHC	mg/Kg	0.0040	.0042	106	45 - 137	J
alpha-BHC	mg/Kg	0.0040	.004	100	45 - 137	T
gamma-BHC (Lindane)	mg/Kg	0.0040	.0044	109	49 - 135	J
gamma-BHC (Lindane)	mg/Kg	0.0040	.0038	96	49 - 135	T
beta-BHC	mg/Kg	0.0040	.0038	96	50 - 136	J
beta-BHC	mg/Kg	0.0040	.0045	114	50 - 136	T
delta-BHC	mg/Kg	0.0040	.0044	110	47 - 139	J
delta-BHC	mg/Kg	0.0040	.0039	97	47 - 139	T
Heptachlor	mg/Kg	0.0040	.0041	104	47 - 136	J
Heptachlor	mg/Kg	0.0040	.0039	99	47 - 136	T
Aldrin	mg/Kg	0.0040	.0044	111	45 - 136	J
Aldrin	mg/Kg	0.0040	.0037	93	45 - 136	T
Heptachlor Epoxide	mg/Kg	0.0040	.0037	93	52 - 136	T
Heptachlor Epoxide	mg/Kg	0.0040	.0041	102	52 - 136	J
Endosulfan I	mg/Kg	0.0040	.0042	105	53 - 132	J
Endosulfan I	mg/Kg	0.0040	.0039	98	53 - 132	T
4,4`-DDE	mg/Kg	0.0040	.0036	90	56 - 134	T
4,4`-DDE	mg/Kg	0.0040	.0042	105	56 - 134	J
Dieldrin	mg/Kg	0.0040	.0036	90	56 - 136	T
Dieldrin	mg/Kg	0.0040	.0043	107	56 - 136	J
Endrin	mg/Kg	0.0040	.0042	106	57 - 140	J
Endrin	mg/Kg	0.0040	.004	100	57 - 140	T
4,4`-DDD	mg/Kg	0.0040	.0041	104	56 - 139	J
4,4`-DDD	mg/Kg	0.0040	.0043	106	56 - 139	T
Endosulfan II	mg/Kg	0.0040	.0041	103	53 - 134	J
Endosulfan II	mg/Kg	0.0040	.0038	95	53 - 134	T
Endrin Aldehyde	mg/Kg	0.0040	.0048	119	35 - 137	T
Endrin Aldehyde	mg/Kg	0.0040	.0036	91	35 - 137	J
4,4`-DDT	mg/Kg	0.0040	.0038	95	50 - 141	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

QC Batch: GCSj/4949 **Analysis Method:** EPA 8081
Preparation Method: SW-846 3550B
Associated Lab IDs: G2305105007, G2305105008, G2305105009, G2305105010, G2305105011, G2305105012, G2305105013, G2305105014, G2305105015, G2305105016, G2305105017, G2305105018, G2305105019, G2305105020, G2305105021

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
4,4`-DDT	mg/Kg	0.0040	.0041	102	50 - 141	J
Endosulfan Sulfate	mg/Kg	0.0040	.0038	96	55 - 136	T
Endosulfan Sulfate	mg/Kg	0.0040	.0041	102	55 - 136	J
Methoxychlor	mg/Kg	0.0040	.0041	102	52 - 143	J
Methoxychlor	mg/Kg	0.0040	.0037	92	52 - 143	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.02	0.0180	92	63 - 130	J^
Tetrachloro-m-xylene (S)	mg/L	0.04	0.0410	103	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

QC Results

QC Batch: GCSt/3434 **Analysis Method:** EPA 8081
Preparation Method: SW-846 3550B
Associated Lab IDs: G2305105001, G2305105002, G2305105003, G2305105004, G2305105005, G2305105006

Method Blank(4811987)

Parameter	Results	Units	PQL	MDL	Lab
alpha-BHC	0.00016 U	mg/Kg	0.0020	0.00016	T
gamma-BHC (Lindane)	0.00059 U	mg/Kg	0.0020	0.00059	T
beta-BHC	0.00073 U	mg/Kg	0.0020	0.00073	T
delta-BHC	0.00017 U	mg/Kg	0.0020	0.00017	T
Heptachlor	0.0013 U	mg/Kg	0.0020	0.0013	T
Aldrin	0.00051 U	mg/Kg	0.0020	0.00051	T
Heptachlor Epoxide	0.00062 U	mg/Kg	0.0020	0.00062	T
Endosulfan I	0.00044 U	mg/Kg	0.0020	0.00044	T
4,4`-DDE	0.00055 U	mg/Kg	0.0020	0.00055	T
Dieldrin	0.00040 U	mg/Kg	0.00060	0.00040	T
Endrin	0.00053 U	mg/Kg	0.0020	0.00053	T
4,4`-DDD	0.00011 U	mg/Kg	0.0020	0.00011	T
Endosulfan II	0.00057 U	mg/Kg	0.0020	0.00057	T
Endrin Aldehyde	0.00090 U	mg/Kg	0.0020	0.00090	T
4,4`-DDT	0.00055 U	mg/Kg	0.0020	0.00055	T
Endosulfan Sulfate	0.00082 U	mg/Kg	0.0020	0.00082	T
Methoxychlor	0.00013 U	mg/Kg	0.0020	0.00013	T
Chlordane (technical)	0.011 U	mg/Kg	0.020	0.011	T
Toxaphene	0.011 U	mg/Kg	0.020	0.011	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.02	0.02	102	63 - 130	T
Tetrachloro-m-xylene (S)	mg/L	0.04	0.0410	101	42 - 129	T

Lab Control Sample (4811988)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
alpha-BHC	mg/Kg	0.0040	.0041	103	45 - 137	T
gamma-BHC (Lindane)	mg/Kg	0.0040	.0043	108	49 - 135	T
beta-BHC	mg/Kg	0.0040	.0047	117	50 - 136	T
delta-BHC	mg/Kg	0.0040	.005	124	47 - 139	T
Heptachlor	mg/Kg	0.0040	.0047	118	47 - 136	T
Aldrin	mg/Kg	0.0040	.0041	103	45 - 136	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

QC Batch: GCSt/3434 **Analysis Method:** EPA 8081
Preparation Method: SW-846 3550B
Associated Lab IDs: G2305105001, G2305105002, G2305105003, G2305105004, G2305105005, G2305105006

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Heptachlor Epoxide	mg/Kg	0.0040	.0042	105	52 - 136	T
Endosulfan I	mg/Kg	0.0040	.0043	109	53 - 132	T
4,4`-DDE	mg/Kg	0.0040	.0041	103	56 - 134	T
Dieldrin	mg/Kg	0.0040	.0044	109	56 - 136	T
Endrin	mg/Kg	0.0040	.0047	118	57 - 140	T
4,4`-DDD	mg/Kg	0.0040	.0047	119	56 - 139	T
Endosulfan II	mg/Kg	0.0040	.0046	114	53 - 134	T
Endrin Aldehyde	mg/Kg	0.0040	.0048	120	35 - 137	T
4,4`-DDT	mg/Kg	0.0040	.0047	118	50 - 141	T
Endosulfan Sulfate	mg/Kg	0.0040	.0043	108	55 - 136	T
Methoxychlor	mg/Kg	0.0040	.0044	111	52 - 143	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.02	0.0210	103	63 - 130	T
Tetrachloro-m-xylene (S)	mg/L	0.04	0.0410	101	42 - 129	T

Matrix Spike (4811989); Matrix Spike Duplicate (4811990); Original (G2304998001); Parent Lab Sample (G2304998001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
alpha-BHC	mg/Kg	0.0040	.0032	82	45 - 137	.0026	67	20	30	T
gamma-BHC (Lindane)	mg/Kg	0.0040	.0034	86	49 - 135	.0029	73	17	30	T
beta-BHC	mg/Kg	0.0040	.003	76	50 - 136	.005	126	**49**	30	T
delta-BHC	mg/Kg	0.0040	.005	127	47 - 139	.003	76	**50**	30	T
Heptachlor	mg/Kg	0.0040	.0036	92	47 - 136	.003	76	20	30	T
Aldrin	mg/Kg	0.0040	.0038	96	45 - 136	.0029	73	26	30	T
Heptachlor Epoxide	mg/Kg	0.0040	.0039	98	52 - 136	.003	76	26	30	T
Endosulfan I	mg/Kg	0.0040	.005	126	53 - 132	.0038	96	27	30	T
4,4`-DDE	mg/Kg	0.0040	.0044	112	56 - 134	.0033	84	29	30	T
Dieldrin	mg/Kg	0.0040	.005	125	56 - 136	.0038	96	26	30	T
Endrin	mg/Kg	0.0040	.0045	114	57 - 140	.0044	112	2	30	T
4,4`-DDD	mg/Kg	0.0040	.0044	111	56 - 139	.0033	85	27	30	T
Endosulfan II	mg/Kg	0.0040	.0039	99	53 - 134	.003	75	27	30	T
Endrin Aldehyde	mg/Kg	0.0040	.0037	94	35 - 137	.0031	78	18	30	T
4,4`-DDT	mg/Kg	0.0040	.0043	110	50 - 141	.0033	82	29	30	T
Endosulfan Sulfate	mg/Kg	0.0040	.0043	109	55 - 136	.0035	88	21	30	T

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

QC Batch: GCSt/3434 **Analysis Method:** EPA 8081
Preparation Method: SW-846 3550B
Associated Lab IDs: G2305105001, G2305105002, G2305105003, G2305105004, G2305105005, G2305105006

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Methoxychlor	mg/Kg	0.0040	.0038	96	52 - 143	.0032	80	18	30	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Decachlorobiphenyl (S)	mg/L	0.02	0.0160	83	63 - 130	0.0140	73	13		T
Tetrachloro-m-xylene (S)	mg/L	0.04	0.0310	79	42 - 129	0.0310	78	1		T

QC Result Comments

Matrix Spike Duplicate - 4811990 - beta-BHC

J4|Estimated Result

Matrix Spike Duplicate - 4811990 - delta-BHC

J4|Estimated Result

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Workorder: NEWBERRY WWTF 16024A (G2305105)

QC Results

QC Batch: GCSt/3454 **Analysis Method:** EPA 8081
Preparation Method: SW-846 3550B
Associated Lab IDs: G2305105007, G2305105008, G2305105009, G2305105010, G2305105011, G2305105012, G2305105013, G2305105014, G2305105015, G2305105016, G2305105017, G2305105018, G2305105019, G2305105020, G2305105021

Lab Control Sample (4817795)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
alpha-BHC	mg/Kg	0.0040	.0042	106	45 - 137	J
alpha-BHC	mg/Kg	0.0040	.004	100	45 - 137	T
gamma-BHC (Lindane)	mg/Kg	0.0040	.0044	109	49 - 135	J
gamma-BHC (Lindane)	mg/Kg	0.0040	.0038	96	49 - 135	T
beta-BHC	mg/Kg	0.0040	.0038	96	50 - 136	J
beta-BHC	mg/Kg	0.0040	.0045	114	50 - 136	T
delta-BHC	mg/Kg	0.0040	.0044	110	47 - 139	J
delta-BHC	mg/Kg	0.0040	.0039	97	47 - 139	T
Heptachlor	mg/Kg	0.0040	.0041	104	47 - 136	J
Heptachlor	mg/Kg	0.0040	.0039	99	47 - 136	T
Aldrin	mg/Kg	0.0040	.0044	111	45 - 136	J
Aldrin	mg/Kg	0.0040	.0037	93	45 - 136	T
Heptachlor Epoxide	mg/Kg	0.0040	.0037	93	52 - 136	T
Heptachlor Epoxide	mg/Kg	0.0040	.0041	102	52 - 136	J
Endosulfan I	mg/Kg	0.0040	.0042	105	53 - 132	J
Endosulfan I	mg/Kg	0.0040	.0039	98	53 - 132	T
4,4`-DDE	mg/Kg	0.0040	.0036	90	56 - 134	T
4,4`-DDE	mg/Kg	0.0040	.0042	105	56 - 134	J
Dieldrin	mg/Kg	0.0040	.0036	90	56 - 136	T
Dieldrin	mg/Kg	0.0040	.0043	107	56 - 136	J
Endrin	mg/Kg	0.0040	.0042	106	57 - 140	J
Endrin	mg/Kg	0.0040	.004	100	57 - 140	T
4,4`-DDD	mg/Kg	0.0040	.0041	104	56 - 139	J
4,4`-DDD	mg/Kg	0.0040	.0043	106	56 - 139	T
Endosulfan II	mg/Kg	0.0040	.0041	103	53 - 134	J
Endosulfan II	mg/Kg	0.0040	.0038	95	53 - 134	T
Endrin Aldehyde	mg/Kg	0.0040	.0048	119	35 - 137	T
Endrin Aldehyde	mg/Kg	0.0040	.0036	91	35 - 137	J
4,4`-DDT	mg/Kg	0.0040	.0038	95	50 - 141	T
4,4`-DDT	mg/Kg	0.0040	.0041	102	50 - 141	J
Endosulfan Sulfate	mg/Kg	0.0040	.0038	96	55 - 136	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

QC Batch: GCSt/3454 **Analysis Method:** EPA 8081
Preparation Method: SW-846 3550B
Associated Lab IDs: G2305105007, G2305105008, G2305105009, G2305105010, G2305105011, G2305105012, G2305105013, G2305105014, G2305105015, G2305105016, G2305105017, G2305105018, G2305105019, G2305105020, G2305105021

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Endosulfan Sulfate	mg/Kg	0.0040	.0041	102	55 - 136	J
Methoxychlor	mg/Kg	0.0040	.0041	102	52 - 143	J
Methoxychlor	mg/Kg	0.0040	.0037	92	52 - 143	T

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.02	0.0180	92	63 - 130	J^
Tetrachloro-m-xylene (S)	mg/L	0.04	0.0410	103	42 - 129	T

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Workorder: NEWBERRY WWTF 16024A (G2305105)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
GCSj/4949 - EPA 8081			
G2305105020	B1-0.5-2	EXTt/4296	SW-846 3550B
G2305105021	B1-2-4	EXTt/4296	SW-846 3550B
GCSt/3434 - EPA 8081			
G2305105001	B7-0-0.5	EXTt/4272	SW-846 3550B
G2305105002	B7-0.5-2	EXTt/4272	SW-846 3550B
G2305105003	B7-2-4	EXTt/4272	SW-846 3550B
G2305105004	B6-0-0.5	EXTt/4272	SW-846 3550B
G2305105005	B6-0.5-2	EXTt/4272	SW-846 3550B
G2305105006	B6-2-4	EXTt/4272	SW-846 3550B
GCSt/3454 - EPA 8081			
G2305105007	B5-0-0.5	EXTt/4296	SW-846 3550B
G2305105008	B5-0.5-2	EXTt/4296	SW-846 3550B
G2305105009	B5-2-4	EXTt/4296	SW-846 3550B
G2305105010	B4-0-0.5	EXTt/4296	SW-846 3550B
G2305105011	B4-0.5-2	EXTt/4296	SW-846 3550B
G2305105012	B4-2-4	EXTt/4296	SW-846 3550B
G2305105013	B3-0-0.5	EXTt/4296	SW-846 3550B
G2305105014	B3-0.5-2	EXTt/4296	SW-846 3550B
G2305105015	B3-2-4	EXTt/4296	SW-846 3550B
G2305105016	B2-0-0.5	EXTt/4296	SW-846 3550B
G2305105017	B2-0.5-2	EXTt/4296	SW-846 3550B
G2305105018	B2-2-4	EXTt/4296	SW-846 3550B
G2305105019	B1-0-0.5	EXTt/4296	SW-846 3550B

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FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/21006 - SM 2540G			
G2305105001	B7-0-0.5		
G2305105002	B7-0.5-2		
G2305105003	B7-2-4		
G2305105004	B6-0-0.5		
G2305105005	B6-0.5-2		
G2305105006	B6-2-4		
G2305105007	B5-0-0.5		
G2305105008	B5-0.5-2		
G2305105009	B5-2-4		
G2305105010	B4-0-0.5		
G2305105011	B4-0.5-2		
WCAt/21012 - SM 2540G			
G2305105012	B4-2-4		
G2305105013	B3-0-0.5		
G2305105014	B3-0.5-2		
G2305105015	B3-2-4		
G2305105016	B2-0-0.5		
G2305105017	B2-0.5-2		
G2305105018	B2-2-4		
G2305105019	B1-0-0.5		
G2305105020	B1-0.5-2		
G2305105021	B1-2-4		

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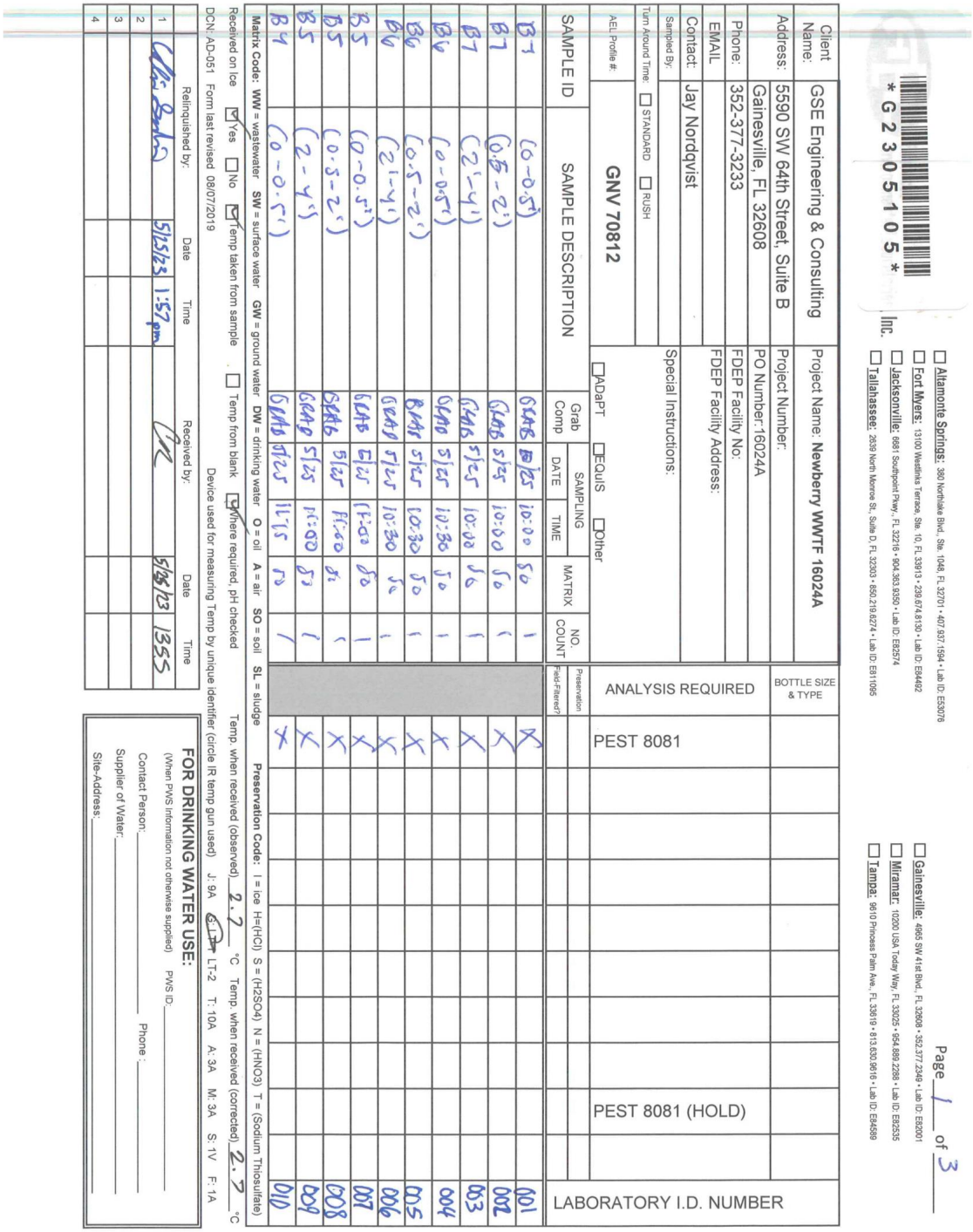
Workorder: NEWBERRY WWTF 16024A (G2305105)



Client Name:	GSE Engineering & Consulting	Project Name: Newberry WWTF 16024A
Address:	5590 SW 64th Street, Suite B	Project Number:
	Gainesville, FL 32608	PO Number:16024A
Phone:	352-377-3233	FDEP Facility No:
EMAIL:		FDEP Facility Address:
Contact:	Jay Nordqvist	
Sampled By:		Special Instructions:
Turn Around Time:	☐ STANDARD ☐ RUSH	
AEL Profile #:	GNV 70812	☐ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab / Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	Preservation Field-Filtered?	ANALYSIS REQUIRED	BOTTLE SIZE & TYPE	LABORATORY I.D. NUMBER
B1	(0-0.5')	G/C	5/15/23	10:00	S	1		PEST 8081		001
B1	(0.5-2')	G	5/15	10:00	S	1				002
B1	(2'-4')	G	5/15	10:00	S	1				003
B1	(0-0.5')	G	5/15	10:30	S	1				004
B1	(0.5-2')	G	5/15	10:30	S	1				005
B1	(2-4')	G	5/15	10:30	S	1				006
B5	(0-0.5')	G	5/15	11:00	S	1				007
B5	(0.5-2')	G	5/15	11:00	S	1				008
B5	(2-4')	G	5/15	11:00	S	1				009
B1	(0-0.5')	G	5/15	11:15	S	1				010
								PEST 8081 (HOLD)		

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☑ Where required, pH checked
Temp. when received (observed) 2.2 °C Temp. when received (corrected) 2.7 °C

DCN: AD-051 Form last revised 08/07/2019 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A IR LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	5/15/23	1:57 pm	[signature]	5/16/23	1355
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

☐ Altamonte Springs: 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: E83076
☐ Fort Myers: 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492
☐ Jacksonville: 6561 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
☐ Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.8274 • Lab ID: E811065
☐ Gainesville: 4965 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
☐ Miramar: 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535
☐ Tampa: 9610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E84589

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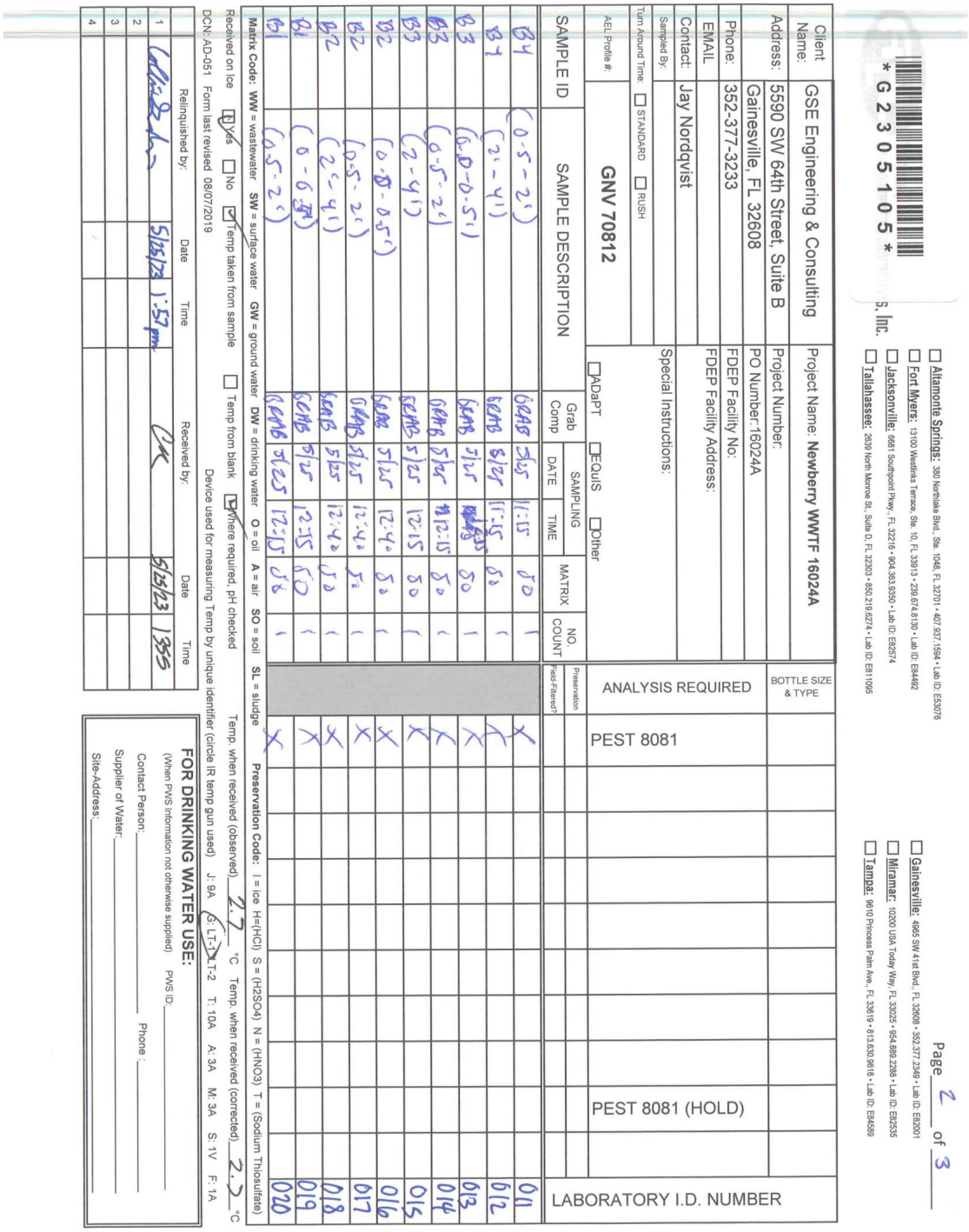
FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)



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Jacksonville: 6981 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E811095
Gainesville: 4965 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
Miramar: 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535
Tampa: 9610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E84589

* G 2 3 0 5 1 0 5 *

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Client Name:	GSE Engineering & Consulting
Address:	5590 SW 64th Street, Suite B Gainesville, FL 32608
Phone:	352-377-3233
EMAIL	
Contact:	Jay Nordqvist
Sampled By:	
Turn Around Time:	☐ STANDARD ☐ RUSH
AEL Profile #:	GNV 70812

Project Name: **Newberry WWTF 16024A**
Project Number:
PO Number:16024A
FDEP Facility No:
FDEP Facility Address:
Special Instructions:

☐ADaPT ☐EQuIS ☐Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab / Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	Preservation Field-Filtered?	ANALYSIS REQUIRED: PEST 8081	ANALYSIS REQUIRED: PEST 8081 (HOLD)	BOTTLE SIZE & TYPE	LABORATORY I.D. NUMBER
B4	(0.5-2')	GRAB COMP	5/15	11:15	SO	1		X			011
B4	(2'-4')	GRAB COMP	5/15	11:15	SO	1		X			012
B3	(0.0-0.5')	GRAB COMP	5/15	[illegible]	SO	1		X			013
B3	(0.5-2')	GRAB COMP	5/15	11:15	SO	1		X			014
B3	(2-4')	GRAB COMP	5/15	11:15	SO	1		X			015
B2	(0.0-0.5')	GRAB COMP	5/15	12:40	SO	1		X			016
B2	(0.5-2')	GRAB COMP	5/15	12:40	SO	1		X			017
B2	(2'-4')	GRAB COMP	5/15	12:40	SO	1		X			018
B1	(0-6")	GRAB COMP	5/15	12:55	SO	1		X			019
B1	(0.5-2')	GRAB COMP	5/15	12:55	SO	1		X			020

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked
Temp when received (observed) 2.7 °C Temp. when received (corrected) 2.7 °C
Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A S: LT-1 T-2 T: 10A A: 3A M: 3A S: 1V F: 1A

DCN: AD-051 Form last revised 08/07/2019

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	5/15/23	1:57 pm	CK	5/15/23	1355
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

Certificate of Analysis
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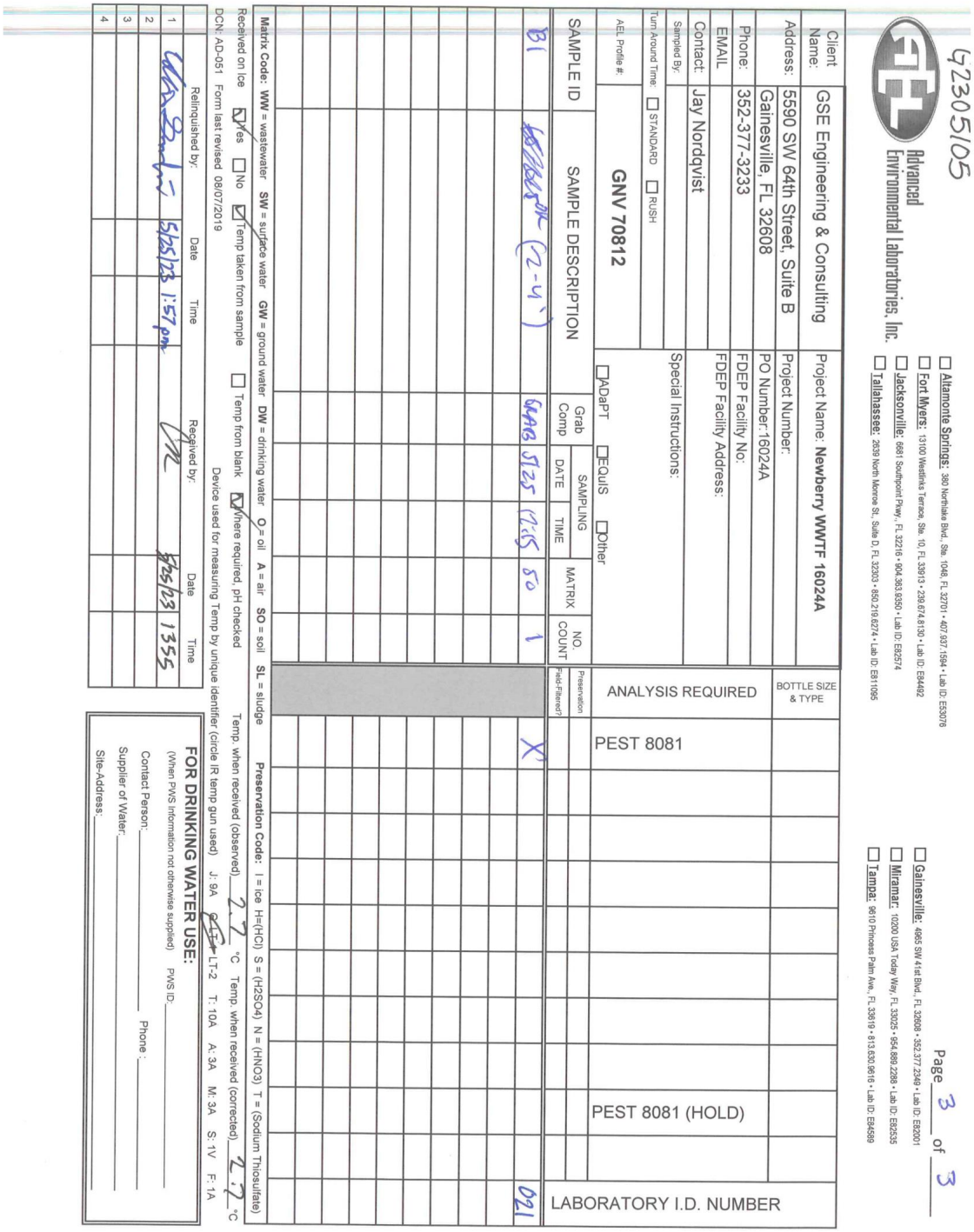
Advanced Environmental Laboratories, Inc.
4965 SW 41st Bl Gainesville, FL 32608
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (352) 377-2349
Fax: (352) 395-6639

FINAL

Workorder: NEWBERRY WWTF 16024A (G2305105)



Advanced Environmental Laboratories, Inc.

G2305105

Page 3 of 3

Client Name: GSE Engineering & Consulting
Address: 5590 SW 64th Street, Suite B, Gainesville, FL 32608
Phone: 352-377-3233
EMAIL
Contact: Jay Nordqvist
Sampled By:
Turn Around Time: ☐ STANDARD ☐ RUSH
AEL Profile #: GNV 70812

Project Name: Newberry WWTF 16024A
Project Number: 16024A
PO Number: 16024A
FDEP Facility No:
FDEP Facility Address:
Special Instructions:

☐ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab / Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	Preservation (Field-Filtered?)	ANALYSIS REQUIRED	BOTTLE SIZE & TYPE
B1	[illegible] (2-4')	Grab	5/25/23	12:15	SO	1		PEST 8081	
								PEST 8081 (HOLD)	
								LABORATORY I.D. NUMBER	
							X		021

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☑ Where required, pH checked

Temp. when received (observed) 2.7 °C Temp. when received (corrected) 2.7 °C

DCN: AD-051 Form last revised 08/07/2019

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A IR-1 LT-2 T: 10A A: 3A M: 3A S: 1V F: 1A

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[illegible]	5/25/23	1:57 pm	[illegible]	5/25/23	1355
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site Address:

☐ Alamonte Springs: 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: E83076
☐ Fort Myers: 13100 Westlinks Terrace, Ste. 10, FL 33913 • 239.674.8130 • Lab ID: E84492
☐ Jacksonville: 6681 Southpoint Pkwy., FL 32216 • 904.363.9350 • Lab ID: E82574
☐ Tallahassee: 2639 North Monroe St., Suite D, FL 32303 • 850.219.6274 • Lab ID: E81095
☐ Gainesville: 4965 SW 41st Blvd., FL 32608 • 352.377.2349 • Lab ID: E82001
☐ Miramar: 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535
☐ Tampa: 9610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E84589

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APPENDIX D

[28]

CDM

HWC FILE COPY

Site # or Name: Newberry - 48

Category: Remedial Investigation

File:

Camp Dresser & McKee

Contamination Assessment
Newberry Airstrip/Landfill Site
Prepared for
The
Florida Department of Environmental
Regulation

by
Camp Dresser & McKee Inc.
August 1989

RECEIVED
AUG 30 1989
BUREAU OF WASTE CLEANUP
Twin Towers

CDM
environmental engineers, scientists, planners, & management consultants

CAMP DRESSER & McKEE INC.
1111 E. Tennessee, Suite 102
Tallahassee, Florida 32308
904 222-2966

August 29, 1989

Mr. Joseph Applegate
Project Manager
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Re: Contamination Assessment Report
for Newberry Airstrip/Landfill

Dear Mr. Applegate:

Camp Dresser & McKee Inc. is pleased to submit the Final Contamination Assessment Report on the Newberry site. This report has been revised to incorporate your comments and several additional comments from key CDM personnel.

We have appreciated the opportunity to work with you and other FDER personnel on this project. Please feel free to call us if you have any questions regarding this final document.

Sincerely,

CAMP DRESSER & McKEE INC.

Thomas D. Walker

TDW/jdew
Enclosure

File: 6072-005-CA-FINAL

cc: R. Johnson
K. Gill

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1.0 INTRODUCTION

The Town of Newberry is located in the southern half of Section 5, Township 10 South, Range 17 East, in western Alachua County, 16 miles west of Gainesville, Florida. The Newberry Airstrip/Landfill is on farmland along State Road 337 (Figure 1-1).

1.1 THE LANDFILL

The landfill is located one mile southwest of the Town of Newberry, Florida. The landfill is an abandoned 3-acre limestone/phosphate pit mine that has been used as a dump site for household rubbish and pesticide containers. Large quantities of 1- and 5-gallon pesticide containers were placed in the pit by a local, now defunct crop dusting business that operated out of a grass landing strip approximately one-half mile southeast of the landfill. Mature trees growing within and around the landfill indicate that many years have passed since the mine was in operation.

The nearest residential development to the landfill is a dwelling located about 100 yards to the southwest of the southwestern part of the pit. The areas containing the majority of pesticide containers (prior to their removal) were on the northeastern part of the pit, and did not appear to present an imminent risk to the residence.

The NUS Corporation (NUS), under contract to the U.S. Environmental Protection Agency (EPA), took soil and surface water samples from the landfill pit in April 1984 to determine if it was a source of environmental contamination. The analyses of one soil sample

AF 45745

SITE LOCATIONMAP
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

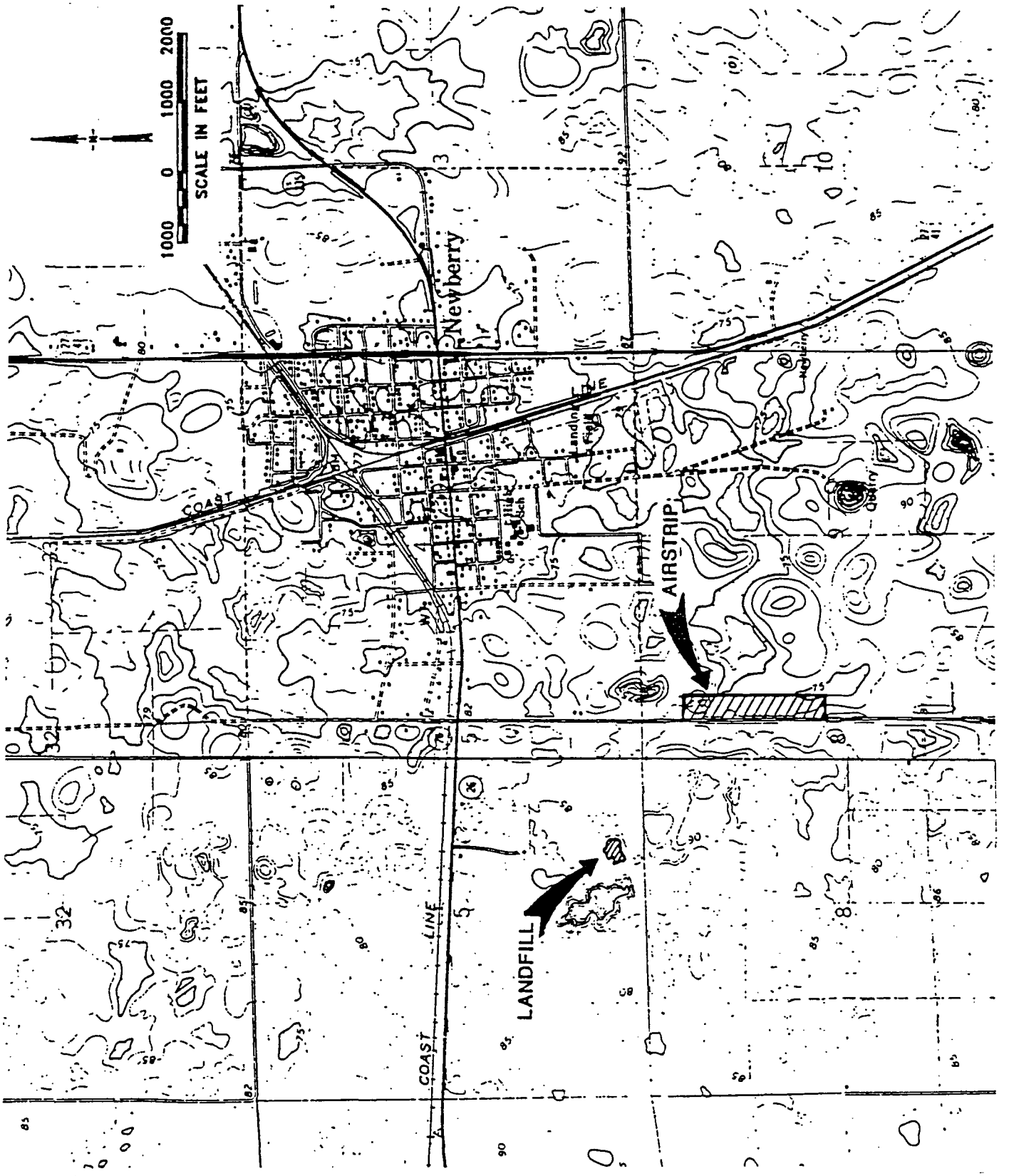


Figure 1-1

CDM

collected from the pit wall showed high concentrations of polynuclear aromatic hydrocarbons (PAHs), which are priority pollutants. These compounds are probably associated with the household and industrial rubbish disposed of in the pit. Low concentrations of trichloroethylene (TCE) (10J ug/kg*), methyl butyl ketone (42 ug/kg), and methyl isobutyl ketone (20J ug/kg*) were also detected in three soil/sediment samples. These compounds may also be attributed to the household and industrial rubbish (NUS, 1985). In 1987, a Florida Department of Environmental Regulation (FDER) Operation Response Team conducted a groundwater investigation at the landfill. Five monitor wells tapping the Floridan aquifer were installed around the landfill, and surface wastes were visually characterized. Samples from three of the monitor wells contained a variety of volatile organic compounds (VOCs) at low concentrations. Two of the compounds were attributed to well development procedures. However, metals concentrations for arsenic (120 ug/l), chromium (170 ug/l), and mercury (9 ug/l) exceeded FDER Drinking Water Standards in one well sample. Only one groundwater sample was found to contain any pesticides. In this sample, the insecticides diazinon and chlordane were detected at 0.4 ug/l and 0.8 ug/l, respectively.

1.2 THE AIRSTRIP

The grass landing strip, referred to as the airstrip, is located approximately one-quarter mile south of the southeastern corner of the Town of Newberry. Several businesses were in operation at the airstrip from the 1960s to 1986, including the crop dusting operation that disposed of the pesticide containers in the landfill. The airstrip is now overgrown with grasses and tall weeds, with the exception of several areas which exhibit patches of bare land and/or stressed vegetation. These areas were used for one or more of the

---

*J = Estimated Value

following processes: refueling, loading of pesticides into the planes, and washing out of the planes' pesticide tanks. There were also four buried underground storage tanks (removed under FDER supervision prior to the CDM work) near some of the stressed areas. Currently all that remains of the hangar structure and the building that served as the office/residence at the airstrip are the concrete foundations.

There are several homes in close proximity to the abandoned airstrip, and these will need to be taken into consideration when the remedial stage of the project is reached. Appropriate risk management measures to protect the residents to the east and west of the airstrip should be incorporated into any remedial plans.

In 1985, an investigation was performed at the airstrip by the Florida Department of Agriculture and Consumer Services (DACS). Soil samples collected from the areas exhibiting stressed vegetation contained high concentrations of the pesticides toxaphene [4,570 parts per million (ppm)], methyl parathion (638 ppm, 676 ppm), and carbaryl (173 ppm, 1,940 ppm) (Rutz, 1986).

1.3 ENVIRONMENTAL SETTING

Newberry lies within the Brooksville Ridge Marginal Zone. This zone is a low, slightly undulating limestone karst plain that characteristically includes a high density of sinkhole collapse features, an absence of streams, and relatively few perched ponds. Elevations in the area average 85 feet above mean sea level (msl). Drainage is almost entirely subsurface as there is only a minor or no near-surface aquitard. Infiltrating rainfall migrates through the sandy soils and into sinkholes or directly into the underlying limestone (FDER, 1987).

In the site area, there are two geologic units of interest: the Alachua Formation and the Crystal River Formation of the Ocala Group. The Alachua Formation unconformably overlies the Crystal River Formation. It is composed of gray to bluish-gray, sometimes phosphatic, clays and clayey sands. These clayey sands weather to a red and light yellow color due to the presence of iron oxide, and may become slightly cemented locally. Interbedded with or underlying the clayey sands are deposits of secondary hard-rock phosphate that was once mined from the landfill (FDER, 1987).

Underlying the Alachua Formation is the Crystal River Formation of the Ocala Group. In the site area, it is a white to cream, massively-bedded bioclastic limestone. It is typically soft and granulated but may be locally indurated by calcite cement. The pinnacled nature of the Crystal River Formation limestone in the site area is attributed to post-depositional erosion processes and is typical of a karst plain (FDER, 1987). Cavernous zones existing in these indurated zones were encountered during drilling operations at the landfill (FDER, 1987).

Previous drilling operations at the landfill indicate the Alachua Formation has variable thickness, reaching a maximum of about 35 feet. Geologists' descriptions and natural gamma logs indicate that the Alachua/Crystal River contact varies from 10 to 60 feet below land surface (bls).

The Floridan aquifer (a G-1 Aquifer) is the only aquifer of significance in the site area, and is the principal source of potable water for the Newberry area. It exists within both the Alachua and Crystal River Formations. In the site area, the Floridan is under water table conditions. The potentiometric surface measured at the landfill during October and December 1985 ranged from 44 to 47 feet above msl. Regionally, the groundwater flow direction is to the northwest and west, but the potentiometric surface at the landfill has

been documented as being nearly flat. The interpreted groundwater flow direction at the landfill has fluctuated between east and west, which is attributed to changes in the nearly flat potentiometric surface caused by mounding beneath the landfill. The mounding is caused by infiltrating rain water (FDER, 1987).

2.0 PURPOSE AND SCOPE OF WORK

The purpose of this investigation is to determine the nature and extent of contamination in the soils, and groundwater in and around areas of waste disposal and buried waste at the Newberry Airstrip/Landfill Site. All samples were collected in accordance with the Newberry Airstrip/Landfill Site Final Work Plan and the Site Quality Assurance Project Plan (QAPP).

The investigation was conducted in a "phased" approach to determine the full extent of contamination. During Phase I, soil samples were collected at various horizontal and vertical locations in and around the onsite waste areas. These samples were analyzed for pesticides, organophosphorous pesticides, herbicides, and priority pollutant metals. Several selected samples were analyzed for VOCs. Groundwater samples were collected and analyzed for a full-scan of priority pollutants.

Soil samples were collected in and around six areas of concern at the airstrip and three areas within the landfill at various depths. Groundwater samples were collected from existing monitor wells at the landfill and newly installed (as part of this investigation) monitor wells at the airstrip. The areas of concern and the groundwater monitor wells at the airstrip and landfill are shown in Figures 2-1 and 2-2, respectively. The locations and depths of the soil samples are summarized in Table 2-1.

Based on the Phase I analytical results, a Phase II investigation was conducted at the airstrip to clearly define the horizontal and vertical extent of contamination in the soil. The contaminants of concern for the Phase II investigation were amended to include only toxaphene for the soil samples and alpha, beta, and gamma-BHCs (benzine hexachloride) for groundwater samples.

Analytical results from the laboratory for Phases I and II are presented in Appendices A and B, respectively.

TABLE 2-1

SOIL/SUBSOIL SAMPLE LOCATIONS
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

Sample Code*	Depth**	Location/Area
Phase I		
AS01-01,02	0-.5, 2.0-2.5	Airstrip/1
AS02-01,02	0-.5, 2.0-2.5	Airstrip/1
AS03-01,02	0-.5, 2.0-2.5	Airstrip/1
AS04-01,02	0-.5, 2.0-2.5	Airstrip/1
AS05-01,02	0-.5, 2.0-2.5	Airstrip/1
AS06-01,02	0-.5, 2.0-2.5	Airstrip/1
AS07-01,02	0-.5, 2.0-2.5	Airstrip/1
AS08-01,02	0-.5, 2.0-2.5	Airstrip/1
AS09-01,02	0-.5, 2.0-2.5	Airstrip/1
AS11-01,02	0-.5, 2.0-2.5	Airstrip/2
AS12-01,02	0-.5, 2.0-2.5	Airstrip/2
AS13-01,02	0-.5, 2.0-2.5	Airstrip/2
AS14-01,02	0-.5, 2.0-2.5	Airstrip/3
AS15-01,02	0-.5, 2.0-2.5	Airstrip/3
AS16-01,02	0-.5, 2.0-2.5	Airstrip/3
AS17-01,02	0-.5, 2.0-2.5	Airstrip/3
AS18-01,02	0-.5, 2.0-2.5	Airstrip/3
AS19-01,02	0-.5, 2.0-2.5	Airstrip/4
AS20-01,02	0-.5, 2.0-2.5	Airstrip/4
AS21-01,02	0-.5, 2.0-2.5	Airstrip/4
AS22-01,02	0-.5, 2.0-2.5	Airstrip/5
AS24-01,02	0-.5, 2.0-2.5	Airstrip/6
AS26-01,02	0-.5, 2.0-2.5	Airstrip/6
LF01-01,02	0-.5, 2.0-2.5	Landfill/1
LF02-01,02	0-.5, 2.0-2.5	Landfill/1
LF03-01,02	0-.5, 2.0-2.5	Landfill/2
LF04-01,02	0-.5, 2.0-2.5	Landfill/2
LF05-01,02	0-.5, 2.0-2.5	Landfill/2
LF06-01,02	0-.5, 2.0-2.5	Landfill/2
LF07-01,02	0-.5, 2.0-2.5	Landfill/2
LF08-01,02	0-.5, 2.0-2.5	Landfill/2
LF09-01,02	0-.5, 2.0-2.5	Landfill/2
LF10-01,02	0-.5, 2.0-2.5	Landfill/3
LF11-01,02	0-.5, 2.0-2.5	Landfill/3

TABLE 2-1
(Continued)

Sample Code*	Depth**	Location/Area
Phase II		
AS27-01	0-.5	Airstrip/1
AS28-01	0-.5	Airstrip/1
AS29-01	0-.5	Airstrip/1
AS30-01	0-.5	Airstrip/1
AS31-01	0-.5	Airstrip/1
AS32-03,04	7.0-7.5, 10-10.5	Airstrip/1
AS33-01	0-.5	Airstrip/2
AS34-01	0-.5	Airstrip/2
AS35-01,03,04	0-.5, 7.0-7.5, 10.0-10.5	Airstrip/2
AS36-02**	5.0-5.5	Airstrip/2
AS39-01	0-.5	Airstrip/4
AS40-01	0-.5	Airstrip/4
AS41-01	0-.5	Airstrip/5
AS42-01	0-.5	Airstrip/5
AS43-01	0-.5	Airstrip/5
AS44-01	0-.5	Airstrip/5
AS45-01,03,04	0-.5, 7.0-7.5, 10.0-10.5	Airstrip/6
AS46-03,04	7.0-7.5, 10.0-10.5	Airstrip/6
AS47-01,02	0-.5, 2.0-2.5	Airstrip/6
AS48-01,02	0-.5, 2.0-2.5	Airstrip/6
AS49-03,04-5	7.0-7.5, 10.0-10.5 12.0-12.5	Airstrip/6

* Suffix 01 denotes 0- to .5-foot depth
Suffix 02 denotes 2.0- to 2.5-foot depth
Suffix 03 denotes 7.0- to 7.5-foot depth
Suffix 04 denotes 10.0- to 10.5-foot depth
Suffix 05 denotes 12.0- to 12.5-foot depth
Suffix 02** denotes 5.0- to 5.5-foot depth

** Feet below land surface

SITE LOCATION MAP FOR AIRSTRIP
NEWBERRY AIRSTRIP/LANDFILL
NEWBERRY, FLORIDA

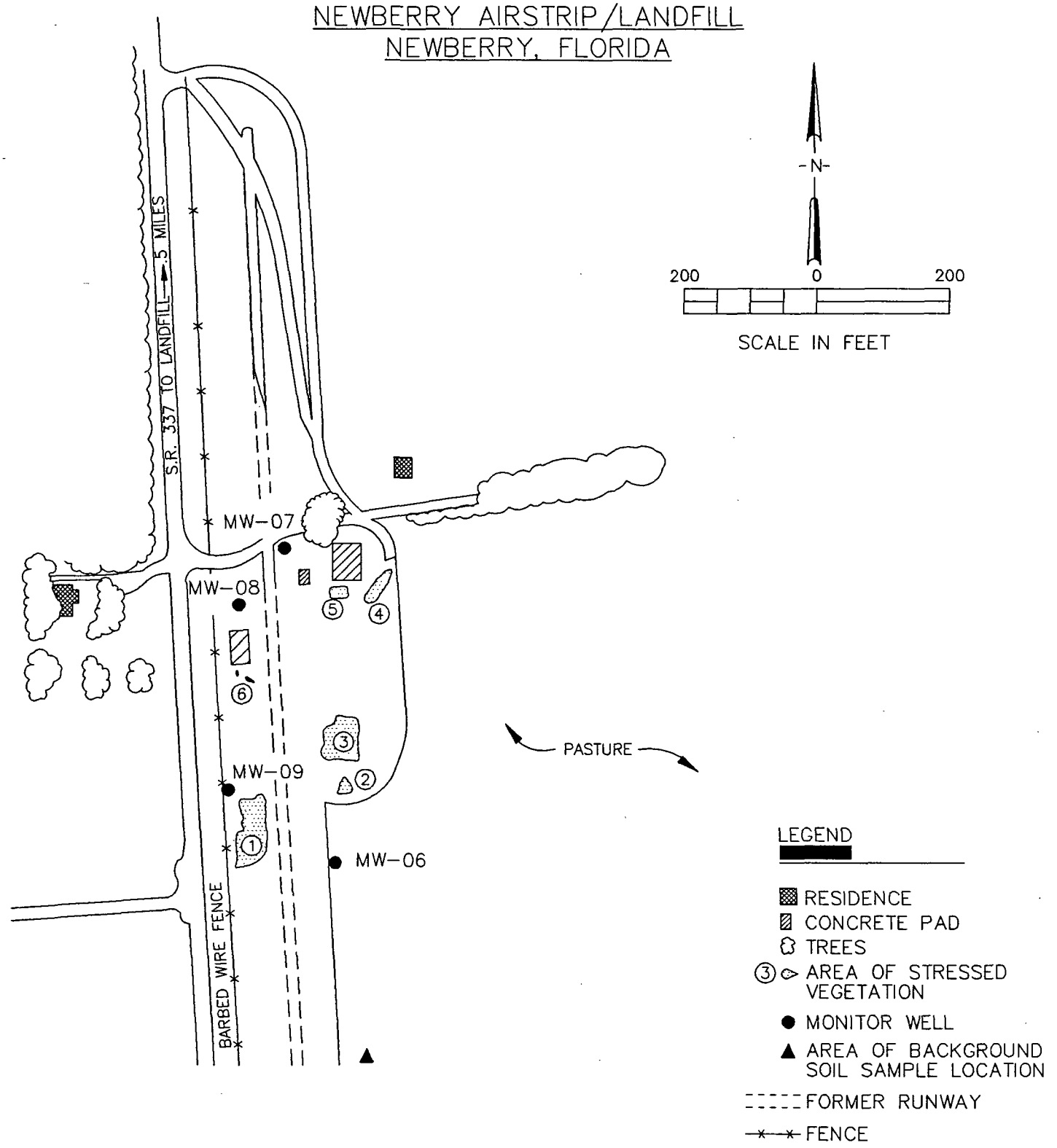
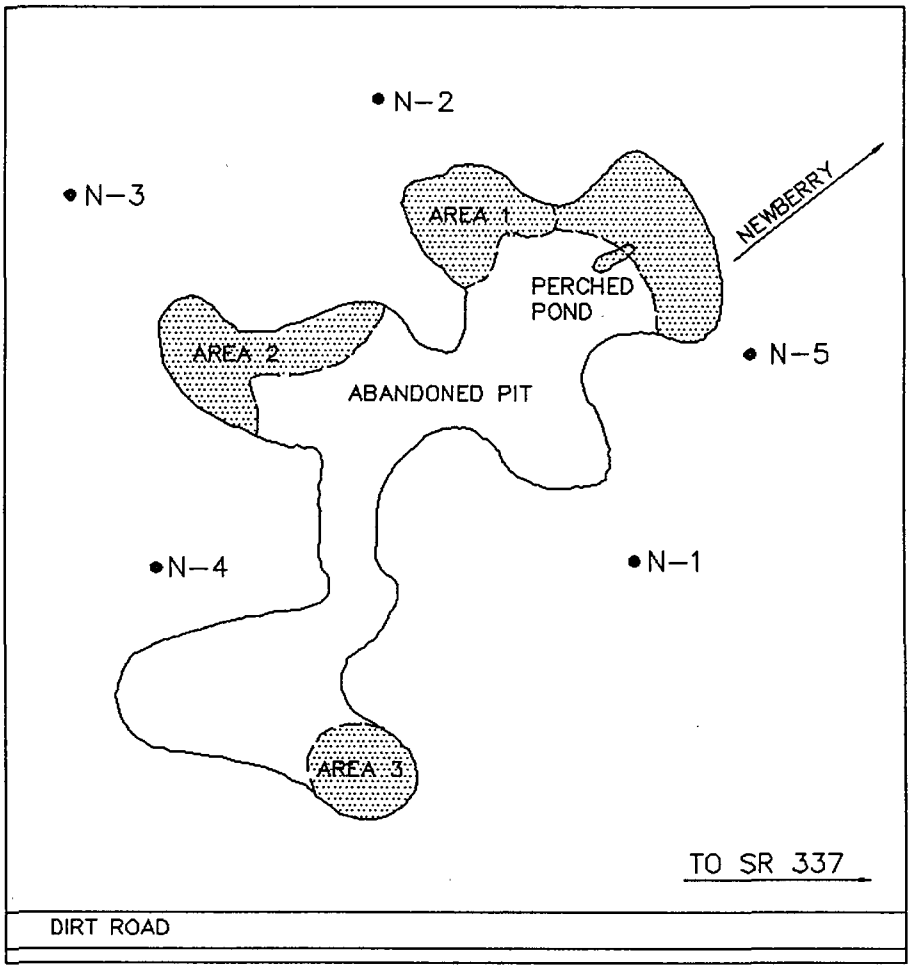
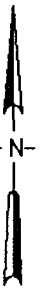


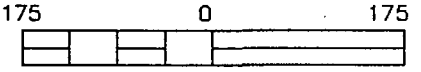
Figure 2-1

CDM

SITE LOCATION MAP FOR LANDFILL
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA







SCALE IN FEET

LEGEND

AREA 3 — LOCATION OF WASTE WITHIN ABANDONED PIT

● — EXISTING MONITOR WELL

Figure 2-2

CDM

3.0 LANDFILL ASSESSMENT

3.1 SOIL INVESTIGATION

3.1.1 METHODOLOGY

There are three areas of concern associated with the landfill. Pesticide containers were removed from Areas 1 and 2 prior to the field investigation. Some household and industrial rubbish remained within the landfill at the time of the investigation, mostly in Areas 1 and 3. All visible pesticide containers and residual soils under the containers were removed from the sides and base of the landfill under FDER supervision. Samples collected in Areas 1 and 2 were taken from the slope walls and areas that would receive drainage from the slopes. Two samples in Area 3 were collected directly beneath a layer of rubbish. Samples were collected at depths of 0-.5 feet below land surface (bls) and 2.0-2.5 feet bls. Twenty-two soil samples were collected at the site.

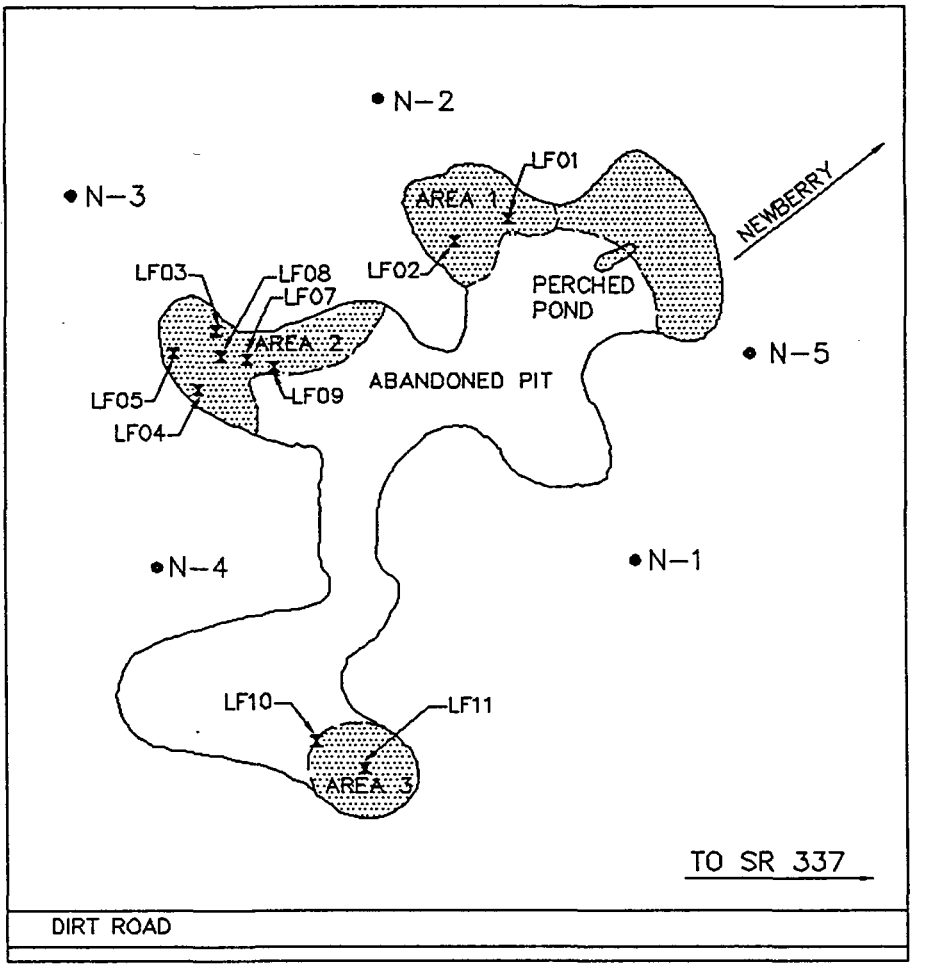
All soil samples were collected with decontaminated stainless steel hand augers, and homogenized and containerized with decontaminated glass bowls and stainless steel spoons. Separate auger buckets were used for each sample.

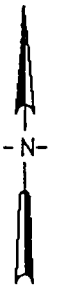
Figure 3-1 illustrates the general location of the sample collection points at the landfill. Some samples were taken at the base of the pit, while others were taken on the slopes. The locations are as described below:

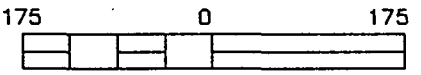
Area 1

LF01 and LF02 are located in topographic "lows" at the base of the slope where any runoff may have occurred.

APPROXIMATE SAMPLING LOCATIONS
LANDFILL
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA







SCALE IN FEET

LEGEND

AREA 3 — LOCATION OF WASTE WITHIN ABANDONED PIT

● — EXISTING MONITOR WELL

LF08 — SAMPLE COLLECTION POINT

Figure 3-1

CDM

Area 2

LOF3, LOF4, and LF07 are "lows" at the base of the slope where runoff may have occurred. LF05 is located up on the slope in the area where most of the 5-gallon containers were removed. LF09 is located in a drainage ditch that appears to drain most of the entire Area 2. LF06 is a duplicate; therefore, it is not shown on the map.

Area 3

LF10 was located in the "low" of the area. LF11 was located in the middle of the trash that remains in the area, in native soil. LF11 was taken beneath trash at the base of the slope.

3.1.2 ANALYTICAL RESULTS

All soil samples were analyzed for the following parameters:

1. Chlorinated Herbicides (EPA Method 8150)
2. Chlorinated Pesticides/PCBS (EPA Method 8080)
3. Organic Phosphorus Pesticides (EPA Method 8140)
4. Volatile Organic Compounds (EPA Method 8240)
5. Primary Metals
6. Mercury

Two compounds were detected in soil samples collected in the landfill. Toxaphene was detected in three samples at concentrations ranging from 11,000 to 76,000 ug/kg. Diazinon was detected in one sample at a concentration of 44 ug/kg. All of the samples showing positive results were collected from Landfill Area 2. The compounds detected, their concentrations, and accompanying sample codes are presented in Table 3-1. Appendix A presents the analytical laboratory results.

TABLE 3-1

ANALYTICAL DATA - LANDFILL SOIL SAMPLES
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

Sample Code/Location*	Toxaphene (ug/kg)	Diazinon (ug/kg)
Area 2		
NS-LF03-02	11,000	44
NS-LF04-01	17,000	ND
NS-LF08-01	76,000	ND

* Suffix 01 denotes sample depth of 0-0.5 feet bls.
Suffix 02 denotes sample depth of 2.0-2.5 feet bls.

ND - Not detected

3.2 SURFACE WATER INVESTIGATION

3.2.1 METHODOLOGY

One surface water sample was collected from the perched pond located within the northeast portion of the landfill (Figure 3-1). The pond at the time of sampling was about 15 feet wide and 30 feet long, and collects rainwater and drainage from surrounding areas. The sample was collected by dipping the sample containers directly into the pond.

3.2.2 ANALYTICAL RESULTS

The surface water sample was analyzed for the following parameters:

1. Chlorinated Pesticides/PCBs (EPA Method 8080)
2. Volatile Organic Compounds (EPA Method 8240)
3. Base/Neutrals
4. Acid Extractable Compounds (EPA Method 8270)
5. Primary Metals
6. Mercury

No organic compounds were reported above limits of detection (LOD) in the surface water sample. Appendix A presents the analytical laboratory results.

Inorganic constituents reported above the LOD include chromium (0.022 mg/l), zinc (0.020 mg/l), cyanide (0.020 mg/l), and total recoverable phenolics (0.013 mg/l).

3.3 GROUNDWATER INVESTIGATION

3.3.1 METHODOLOGY

Five existing monitor wells located around the perimeter of the landfill were sampled. Each monitor well was purged with a decontaminated stainless steel submersible pump and PVC piping. A minimum of three well volumes were purged from each well. Temperature, pH, and conductivity were measured to document stabilization. The samples were then collected using decontaminated stainless steel bailers.

3.3.2 ANALYTICAL RESULTS

Groundwater samples were analyzed for the following parameters:

1. Chlorinated Pesticides/PCBs (EPA Method 8080)
2. Volatile Organic Compounds (EPA Method 8240)
3. Base/Neutrals
4. Acid Extractable Compounds (EPA Method 8270)
5. Primary Metals
6. Mercury

Two organic compounds were detected in one groundwater sample collected at the landfill. 4,4'-DDT (0.054 ug/l) and 4,4'-DDD (0.30 ug/l) were detected in the groundwater sample collected from monitor well MW-1.

Inorganic constituents detected in groundwater samples collected at the landfill include arsenic, chromium, copper, lead, nickel, zinc, and cyanide. The only drinking water standard exceeded was that of chromium in the sample collected from monitor well MW-3. Chromium was detected in this sample at a concentration of 0.14 mg/l. This value exceeds the primary drinking water standard of 0.05 mg/l.

The compounds/constituents detected and accompanying sample codes and concentrations are presented in Table 3-2. Appendix A presents the analytical laboratory results.

3.4 CONCLUSIONS

3.4.1 LANDFILL

The environmental sampling indicated the following contaminants are present in the environmental media described below:

Soil:

Toxaphene - One sample in Area 2 indicated a toxaphene concentration of 76,000 ug/kg. Two other samples from Area 2 indicated toxaphene concentrations above the detection limit.

Diazinon - One sample from Area 2 indicated a diazinon concentration of 44 ug/kg.

Surface Water:

No contaminants were detected in any of the collected surface water samples.

Groundwater:

4,4'-DDT - Groundwater samples from monitor well MW-1 indicated relatively low 4,4'-DDT concentrations of 0.054 ug/l.

TABLE 3-2

ANALYTICAL DATA - LANDFILL GROUNDWATER SAMPLES
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

Constituent	FDER Guidance Concentration*	Well Number MW-1	MW-2	MW-3	MW-4	MW-5
Organic (Results in ug/l)						
4,4'-DDT	0.1	0.054	ND	ND	ND	ND
4,4'-DDD	--	0.30	ND	ND	ND	ND
Inorganic (Results in mg/l)						
Arsenic	.050	ND	ND	0.015	ND	ND
Chromium	.050	ND	0.012	0.14	ND	ND
Copper	1.000	ND	ND	ND	ND	0.045
Lead	.050	ND	0.046	0.015	ND	0.013
Nickel	.015	ND	ND	0.042	0.010	0.011
Zinc	5.000	ND	0.071	0.071	0.020	0.059
Cyanide	.154	ND	ND	0.02	ND	ND

ND - Not Detected.

*To be used only as a screening guidelines for groundwater contamination. These concentrations are not standards and without justification cannot be used as standards.

4,4'-DDD - Groundwater samples from Monitor Well MW-1 included a relatively low 4,4'-DDD concentration of 0.30 ug/l.

Metals - Elevated chromium concentrations of 0.14 mg/l were detected in the groundwater sample from Monitor Well MW-3. This level exceeds the FDER Primary Drinking Water Standard of 0.05 mg/l. Arsenic, copper, lead, nickel, zinc, and cyanide were also reported in groundwater from at least one monitor well. However, these constituents are presented in levels below the FDER Primary Drinking Water Standard, and may, in fact, represent background levels.

The elevated levels of the above-listed contaminants appear to be localized at the landfill site. Due to the localized nature of possible contamination, contour maps of contaminants found in soils and/or groundwater are unwarranted.

3.4.2 GENERAL CONTAMINANT CHARACTERIZATION

The following paragraphs contain a general summary of background information on the contaminants considered to be of concern at the landfill site. This background information is summarized from Sittig (1980).

Toxaphene is a commercially produced chlorinated hydrocarbon pesticide and is currently the most heavily used insecticide in the United States. When dispersed in natural water systems, toxaphene tends to be absorbed by the particulates present or to be taken up by living organisms. Toxaphene can persist in sediments or remain absorbed on suspended solids for prolonged periods.

The compounds 4,4'-DDT and 4,4'-DDD are broad spectrum insecticides, and their low cost continue to make them highly used outside of the United States. EPA banned use of these compounds because they are known toxicants with long-term persistence in the soil and water. These compounds are also widely dispersed by erosion, runoff, and volatilization.

3.4.3 RECOMMENDATIONS

Excavation of soils near Area 2 where elevated levels of toxaphene were detected at concentrations in excess of 50,000 ppm is recommended as an interim measure. Additional verification sampling will be needed to better define the total area of elevated toxaphene concentration and ensure that all excessive contamination is excavated.

CDM recommends that monitor well MW-3 be re-sampled and analyzed to determine whether chromium levels continue to exceed FDER Drinking Water Standards.

Elevated levels of other possible groundwater contaminants appear to be confined to the immediate area of the landfill. Therefore, based on the current data, no interim actions in regard to groundwater remediation are recommended.

4.0 AIRSTRIP ASSESSMENT

4.1 PHASE I - SOIL INVESTIGATION

4.1.1 METHODOLOGY

There are six areas of concern associated with the airstrip. These are areas of stressed vegetation, some of which have been linked to past waste disposal practices. Samples were collected within the area as well as around the perimeter of the stressed vegetation. Areas 1 and 3 were sampled on a 40-foot grid system. The remaining four areas were spot-sampled in locations that would best define any potential contamination. Samples were collected at depths of 0 to 0.5 feet bls and 2.0 to 2.5 feet bls. The samples were collected, homogenized, and containerized as described in Section 3.1.1. Sample locations at each area of concern are included in Figures 4-1 through 4-4.

4.1.2 ANALYTICAL RESULTS

All soil samples were analyzed for the following parameters:

1. Chlorinated Herbicides (EPA Method 8150)
2. Chlorinated Pesticides/PCBs (EPA Method 8080)
3. Organic Phosphorus Pesticides (EPA Method 8140)
4. Volatile Organic Compounds (EPA Method 8240)
5. Primary Metals
6. Mercury

Toxaphene was detected in 41 out of 48 soil/subsoil samples collected at the airstrip. The toxaphene concentrations ranged from 480 ug/kg to 7,200,000 ug/kg. The highest concentrations were detected in samples collected from 0 to 0.5 feet bls (suffix -01). The values detected in samples collected from 2.0 to 2.5 feet bls (suffix -02) show a significant decrease in concentration with depth.

SOIL SAMPLE LOCATIONS–AIRSTRIP/AREA1
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

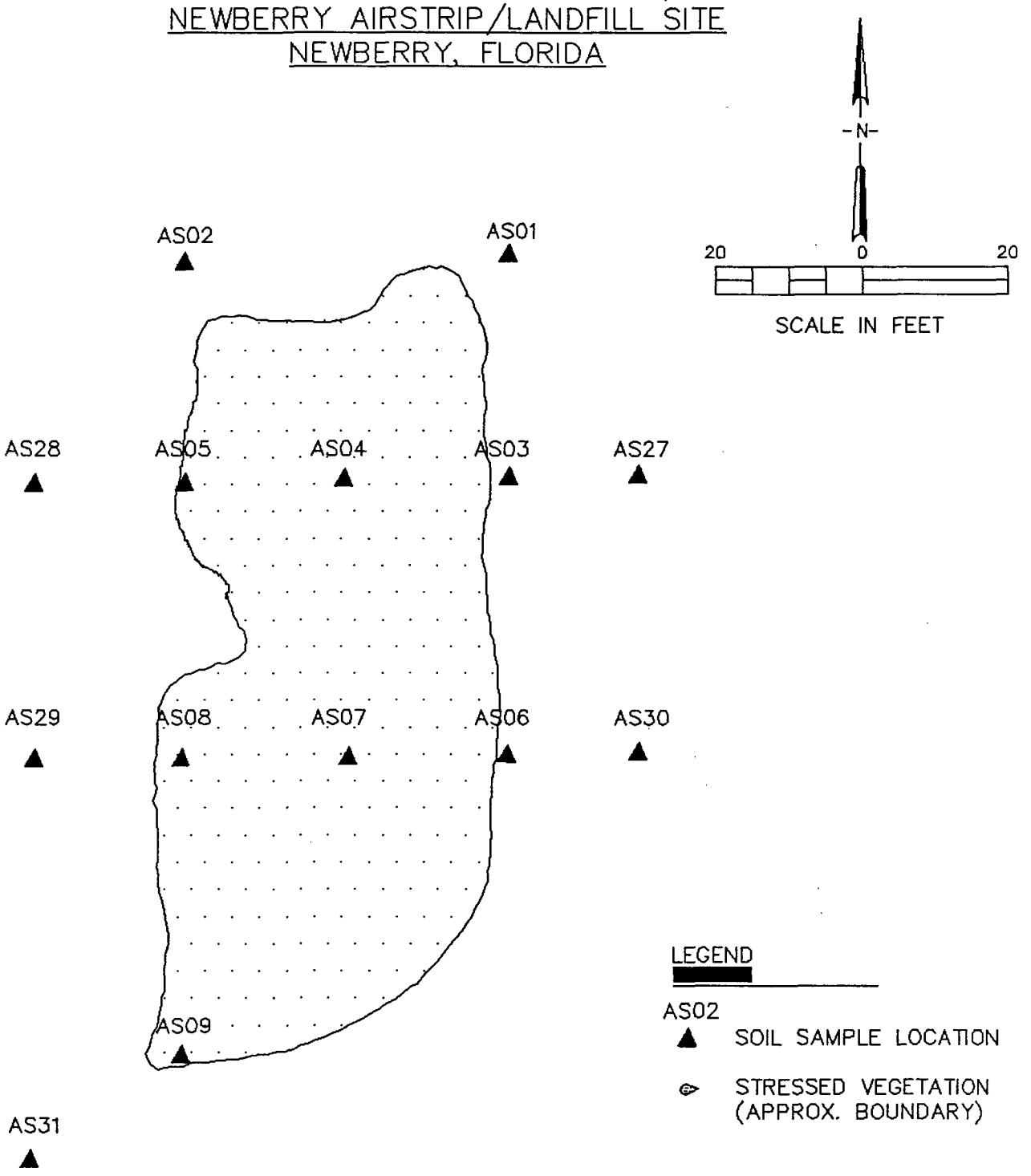
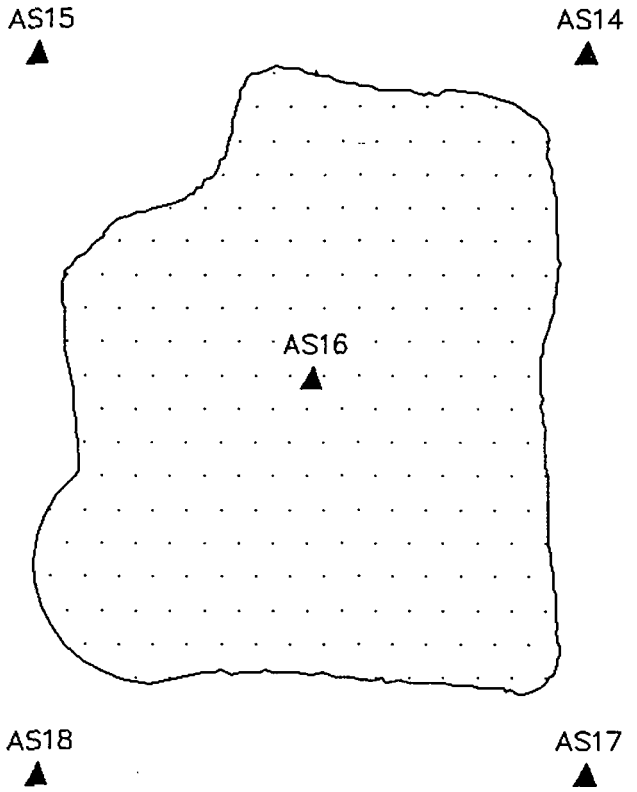


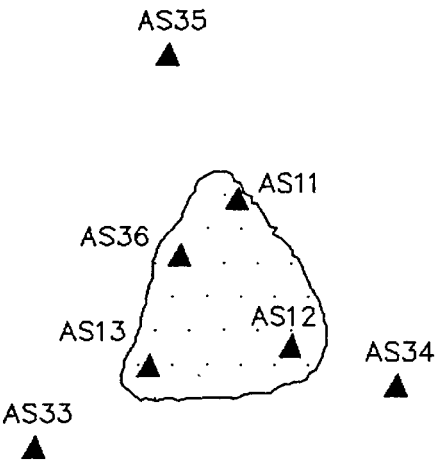
Figure 4-1

CDM

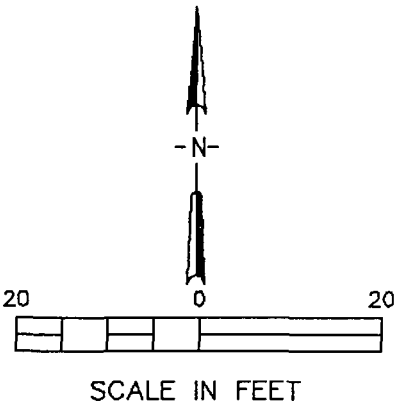
SOIL SAMPLE LOCATIONS–AIRSTRIP/AREAS 2 & 3
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA



AREA 3



AREA 2



LEGEND

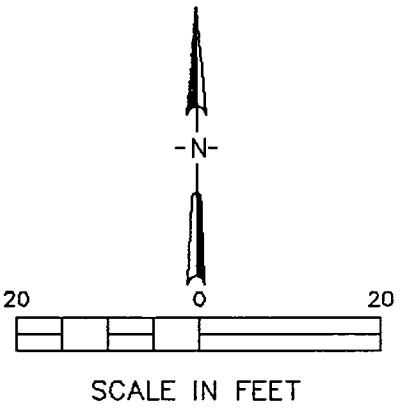
AS02 ▲ SOIL SAMPLE LOCATION

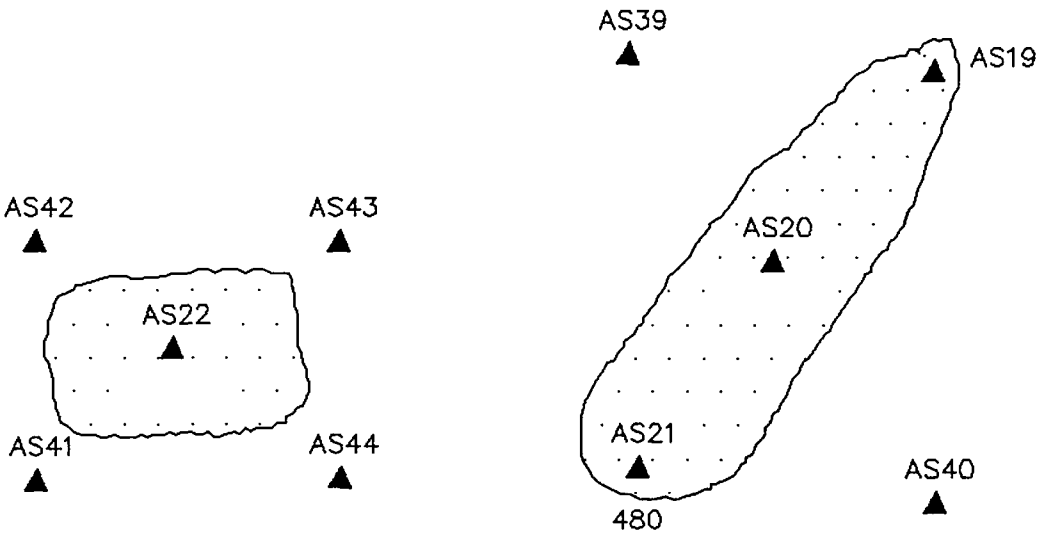
STRESSED VEGETATION (APPROX. BOUNDARY)

Figure 4-2

CDM

SOIL SAMPLE LOCATIONS–AIRSTRIP/AREAS 4 & 5
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA





AREA 5

AREA 4

LEGEND

AS02 ▲ SOIL SAMPLE LOCATION

STRESSED VEGETATION (APPROX. BOUNDARY)

Figure 4-3

CDM

SOIL SAMPLE LOCATIONS–AIRSTRIP/AREA 6
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

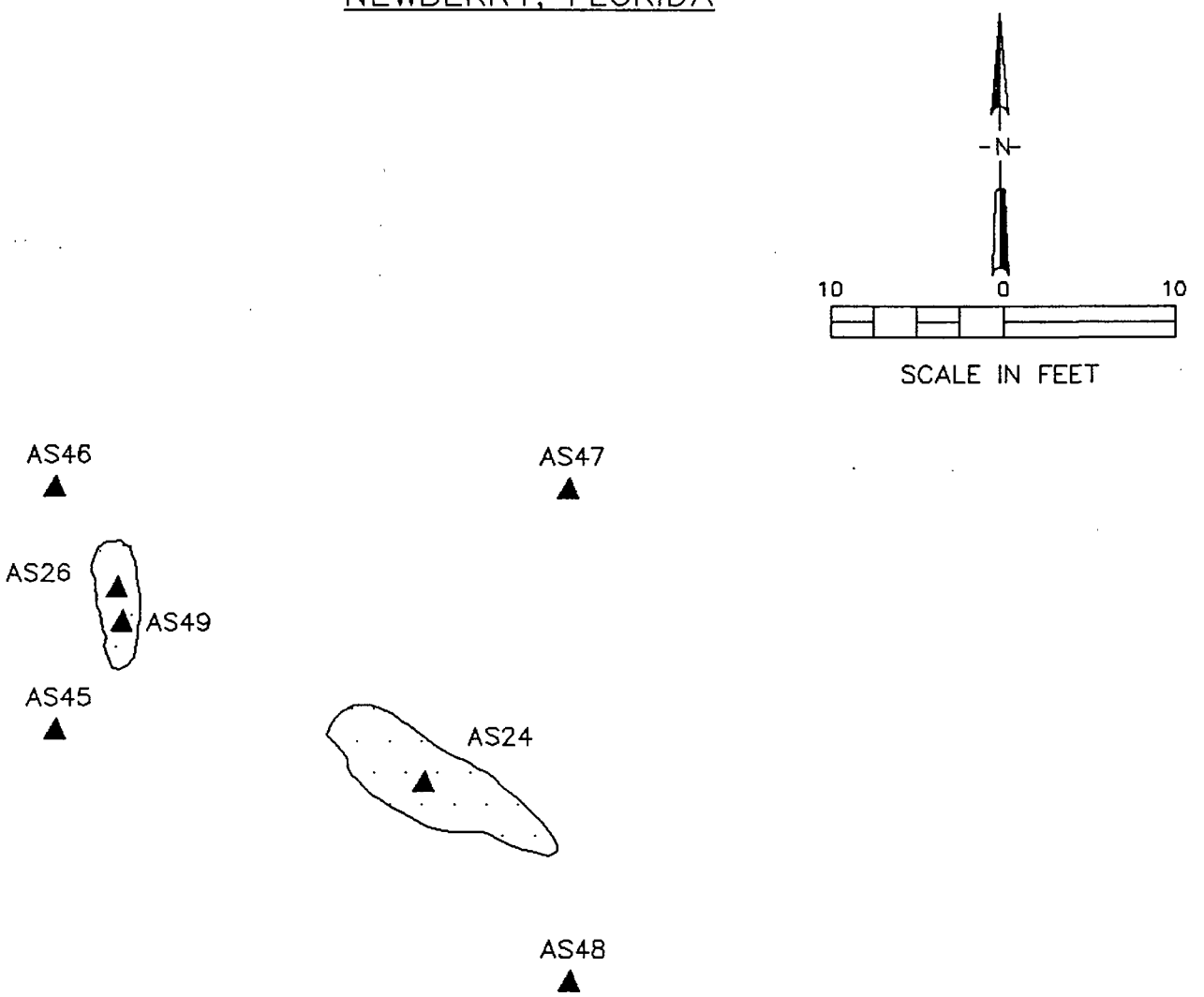


Figure 4-4

CDM

The area of highest contamination at the airstrip, in terms of compounds detected and concentrations, is Area 6. Surface soil samples in this area contained toxaphene concentrations of 2,900,000 ug/kg and 7,200,000 ug/kg. Gamma-BHC and Endosulfan I were also detected in one of the surface soil samples at concentrations of 230,000 ug/kg and 570,000 ug/kg, respectively. These compounds were also detected in the subsoil sample at this location, but at low concentrations.

Toluene was detected in one soil sample in Area 5 at a concentration of 15 ug/kg.

None of the aforementioned compounds were detected in the background soil samples collected southeast of the airstrip in an adjacent pasture. One of these samples, however, did contain low concentrations of 4,4'-DDE (16 ug/kg) and 4,4'-DDT (18 ug/kg).

The compounds detected, their concentrations, and the accompanying sample codes are presented in Table 4-1. Appendix A presents the analytical laboratory results.

4.2 PHASE II SOIL SAMPLING INVESTIGATIONS

4.2.1 METHODOLOGY

Based on the Phase I analytical results, more soil samples were necessary to fully define the areal and vertical extent of contamination at the airstrip. Locations that extended farther from the perimeters of the areas of concern were sampled. Samples were also collected at greater depths at all of the Phase II sample collection locations. These depths ranged from 7.0 to 7.5 feet bls (suffix -04) to 12.0 to 2.5 feet bls (suffix -06). The samples were collected, homogenized, and containerized as described in Section 3.1.1. Sample locations are shown in Figures 4-1 through 4-4.

TABLE 4-1

ANALYTICAL DATA - AIRSTRIP SOIL SAMPLES PHASE I
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA
RESULTS IN UG/KG

TW9X.1/8

Sample Code/ Location*	Toxaphene	4,4'-DDE	4,4'-DDT	Toluene	Gamma BHC	Endo-Sulfan I
Area 1						
NS-AS01-01	4,000	ND	ND	ND	ND	ND
NS-AS01-02	1,900	ND	ND	ND	ND	ND
NS-AS02-01	3,200	ND	ND	ND	ND	ND
NS-AS02-02	ND	ND	ND	ND	ND	ND
NS-AS03-01	400,000	ND	ND	ND	ND	ND
NS-AS03-02	5,400	ND	ND	ND	ND	ND
NS-AS04-01	720,000	ND	ND	ND	ND	ND
NS-AS04-02	24,000	ND	ND	ND	ND	ND
NS-AS05-01	34,000	ND	ND	ND	ND	ND
NS-AS05-02	9,200	ND	ND	ND	ND	ND
NS-AS06-01	93,000	ND	ND	ND	ND	ND
NS-AS06-02	1,800	ND	ND	ND	ND	ND
NS-AS07-01	400,000	ND	ND	ND	ND	ND
NS-AS07-02	4,400	ND	ND	ND	ND	ND
NS-AS08-01	124,000	ND	ND	ND	ND	ND
NS-AS08-02	16,000	ND	ND	ND	ND	ND
NS-AS09-01	1,900	ND	ND	ND	ND	ND
NS-AS09-02	110,000	ND	ND	ND	ND	ND
Area 2						
NS-AS11-01	260,000	ND	ND	ND	ND	ND
NS-AS11-02	280,000	ND	ND	ND	ND	ND
NS-AS12-01	2,600,000	ND	ND	ND	ND	ND

TABLE 4-1
(Continued)

Sample Code/ Location*	Toxaphene	4,4'-DDE	4,4'-DDT	Toluene	Gamma BHC	Endo-Sulfan I
NS-AS12-02	9,200	ND	ND	ND	ND	ND
NS-AS13-01	450,000	ND	ND	ND	ND	ND
NS-AS13-02	11,000	ND	ND	ND	ND	ND
Area 3						
NS-AS14-01	1,300	ND	ND	ND	ND	ND
NS-AS14-02	ND	ND	ND	ND	ND	ND
NS-AS15-01	14,000	ND	ND	ND	ND	ND
NS-AS15-02	1,000	ND	ND	ND	ND	ND
NS-AS16-01	130,000	ND	ND	ND	ND	ND
NS-AS16-02	14,000	ND	ND	ND	ND	ND
NS-AS17-01	16,000	ND	ND	ND	ND	ND
NS-AS17-02	ND	ND	ND	ND	ND	ND
NS-AS18-01	450,000	ND	ND	ND	ND	ND
NS-AS18-02	ND	ND	ND	ND	ND	ND
Area 4						
NS-AS19-01	3,800	ND	ND	ND	ND	ND
NS-AS19-02	ND	ND	ND	ND	ND	ND
NS-AS20-01	1,200,000	ND	ND	ND	ND	ND
NS-AS20-02	1,200	ND	ND	ND	ND	ND
NS-AS21-01	9,200	ND	ND	ND	ND	ND
NS-AS21-02	480	ND	ND	ND	ND	ND
Area 5						
NS-AS22-01	250,000	ND	ND	15	ND	ND
NS-AS22-02	1,800	ND	ND	ND	ND	ND

TABLE 4-1
(Continued)

Sample Code/ Location*	Toxaphene	4,4'-DDE	4,4'-DDT	Toluene	Gamma BHC	Endo-Sulfan I
Area 6						
NS-AS24-01	2,900,000	ND	ND	ND	ND	ND
NS-AS24-02	14,000	ND	ND	ND	ND	ND
NS-AS26-01	7,200,000	ND	ND	ND	230,000	570,000
NS-AS26-02	59,000	ND	ND	ND	610	1,000
Background						
NS-AS25-01	ND	16	18	ND	ND	ND
NS-AS25-02	ND	ND	ND	ND	ND	ND

* Suffix 01 denotes sample depth of 0-0.5 feet bls.
Suffix 02 denotes sample depth of 2.0-2.5 feet bls.

ND - Not detected.

4.2.2 ANALYTICAL RESULTS

All soil samples were analyzed for chlorinated pesticides/PCBs (EPA Method 8080). Table 4-2 summarizes the analytical results of the Phase II soil sampling program. Appendix B contains the analytical laboratory results.

Toxaphene was detected in 28 of the 33 soil/subsoil samples collected during Phase II at the airstrip. As with the Phase I sampling, the highest concentrations were reported for samples collected from a depth of 0 to 0.5 feet bls (suffix -01). Toxaphene concentrations generally decreased with depth.

Relatively low concentrations of Endosulfan I were present in one soil sample from Areas 1 and 6. EndoSulfan I concentrations of 73 ug/kg and 30 ug/kg were reported for soil samples from Areas 1 and 6, respectively.

Gamma-BHC concentrations of 1,100 and 68 ug/kg were found in soil samples from Area 6 at depth intervals of 7.0 to 7.5 feet bls and 10 to 10.5 feet bls, respectively.

TABLE 4-2

PHASE II

ANALYTICAL RESULTS - AIRSTRIP SOIL SAMPLES
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

	Sample Code Location	Toxaphene (ug/kg)	Concentration EndoSulfan I (ug/kg)	Gamma-BHC (ug/kg)
Area 1				
	NS-AS27-01	ND	73	
	NS-AS28-01	6,000		
	NS-AS29-01	21,000		
	NS-AS30-01	2,000		
	NS-AS31-01	19,000		
	NS-AS32-03	BOL		
	NS-AS32-04	340		
Area 2				
	NS-AS33-01	830		
	NS-AS34-01	890		
	NS-As35-01	3,000		
	NS-AS35-03	BOL		
	NS-AS35-05	270		
	NS-AS36-02**	10,000		
Area 4				
	NS-As39-01	1,700		
	NS-As40-01	12,000		
Area 5				
	NS-AS41-01	150,000		
	NS-As42-01	53,000		
	NS-AS43-01	97,000		
	NS-AS44-01	210,000		

TABLE 4-2
(Continued)

Sample Code Location	Toxaphene (ug/kg)	Concentration EndoSulfan I (ug/kg)	Gamma-BHC (ug/kg)
Area 6			
NS-AS45-01	61,000		
NS-AS45-03	ND		
NS-AS45-04	ND		
NS-AS46-01	62,000		
NS-AS46-03	700		
NS-AS46-04	240		
NS-AS47-01	66,000		
NS-As47-02	2,200		
NS-AS48-01	120,000		
NS-AS48-02	9,100		
NS-AS49-03	87,000		1,100
NS-AS49-04	1,500		65
NS-AS49-05	600	30	
NS-AS50-02**	5,400		

Notes:

* Suffix 01 denotes 0- to 0.5-foot depth
Suffix 02 denotes 2.0- to 2.5-foot depth
Suffix 03 denotes 7.0- to 7.5-foot depth
Suffix 04 denotes 10.0- to 10.5-foot depth
Suffix 05 denotes 12.0- to 12.5-foot depth
Suffix 02** denotes 5.0- to 5.5-foot depth

** Duplicate sample for NS - AS48-02

ND - Not Detected

4.3 PHASE I GROUNDWATER SAMPLING INVESTIGATION

4.3.1 MONITOR WELL INSTALLATION

Four permanent groundwater monitor wells were installed at the airstrip at locations shown in Figure 4-6. The wells were installed to monitor the water quality in the upper Floridan aquifer. A portion of the screen was installed above the water table to allow for any rise in water level due to seasonal fluctuations.

The wells are constructed of 4-inch-diameter Schedule 40 PVC casing and 0.020-inch machine-slotted screens as shown in Appendix C and described in Table 4-3. The annulus between the casing/screen and the borehole is filled with clean 8-20 silica sand to above the screen. The sand pack is capped with a granular bentonite plug and the remainder of the annulus filled with a cement/bentonite grout mixture.

After installation, each well was thoroughly developed by using a decontaminated stainless steel submersible pump and PVC piping. Each well was developed until the discharge was relatively sand- and silt-free as determined by the CDM field manager. Each monitor well was then secured with a watertight, manhole-type protective casing and a watertight, locking well plug. The wells were allowed to remain undisturbed for 24 hours before water samples were collected.

4.3.2 METHODOLOGY

Groundwater samples were collected from the four new monitor wells installed at the airstrip by using the techniques described in Section 3.3.1.

TABLE 4-3

MONITOR WELL CONSTRUCTION
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

Well No.	Total Depth (feet bls)	Screened Interval (feet bls)	Sand Pack (feet bls)	Bentonite Seal (feet bls)	Grout (feet bls)
MW-6	54.0	39.0-54.0	34.7-55.0	32.9-34.7	0-32.9
MW-7	48.0	33.0-48.0	29.0-55.0	26.8-29.0	0-26.8
MW-8	48.0	33.0-48.0	28.8-50.0	26.8-28.8	0-26.8
MW-9	49.0	34.0-49.0	29.9-34.0	28.0-29.9	0-28.0

4.3.3 ANALYTICAL RESULTS

The groundwater sample was analyzed for the following parameters:

1. Chlorinated Pesticides/PCBs (EPA Method 8080)
2. Volatile Organic Compounds (EPA Method 8240)
3. Base/Neutrals
4. Acid Extractable Compounds (EPA Method 8270)
5. Primary Metals
6. Mercury

Three organic compounds were reported in the groundwater samples collected from the monitor wells at the airstrip. Alpha-BHC was reported in the samples from monitor well MW-7 at 0.010 ug/l and monitor well MW-8 at 0.036 ug/l. Gamma-BHC was also reported in the MW-8 sample at 0.14 ug/l. Endrin is reported in the sample collected from monitor well MW-9 at 0.072 ug/l.

Inorganic constituents detected in the airstrip groundwater samples included chromium, zinc, and total recoverable phenolics. None of the concentrations detected exceeded State of Florida standards.

The compounds/constituents detected and accompanying sample codes and concentrations are presented in Table 4-4.

4.4 METAL DETECTION SURVEY

A metal detection survey was performed in between the Phase I and Phase II sampling programs. A simple geophysical survey using a Geonics EM-31 deep penetrating metal detector was conducted at the airstrip in an effort to locate any pesticide containers that may have been buried onsite. This survey was conducted by making random traverses across the site (Figure 4-5). The survey detected numerous isolated anomalies, mostly in the area adjacent to the concrete hangar pad near soil sampling Areas 4 and 5. Since these are isolated anomalies that do not appear to be of substantial

AREAS OF METAL DETECTION SURVEY
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

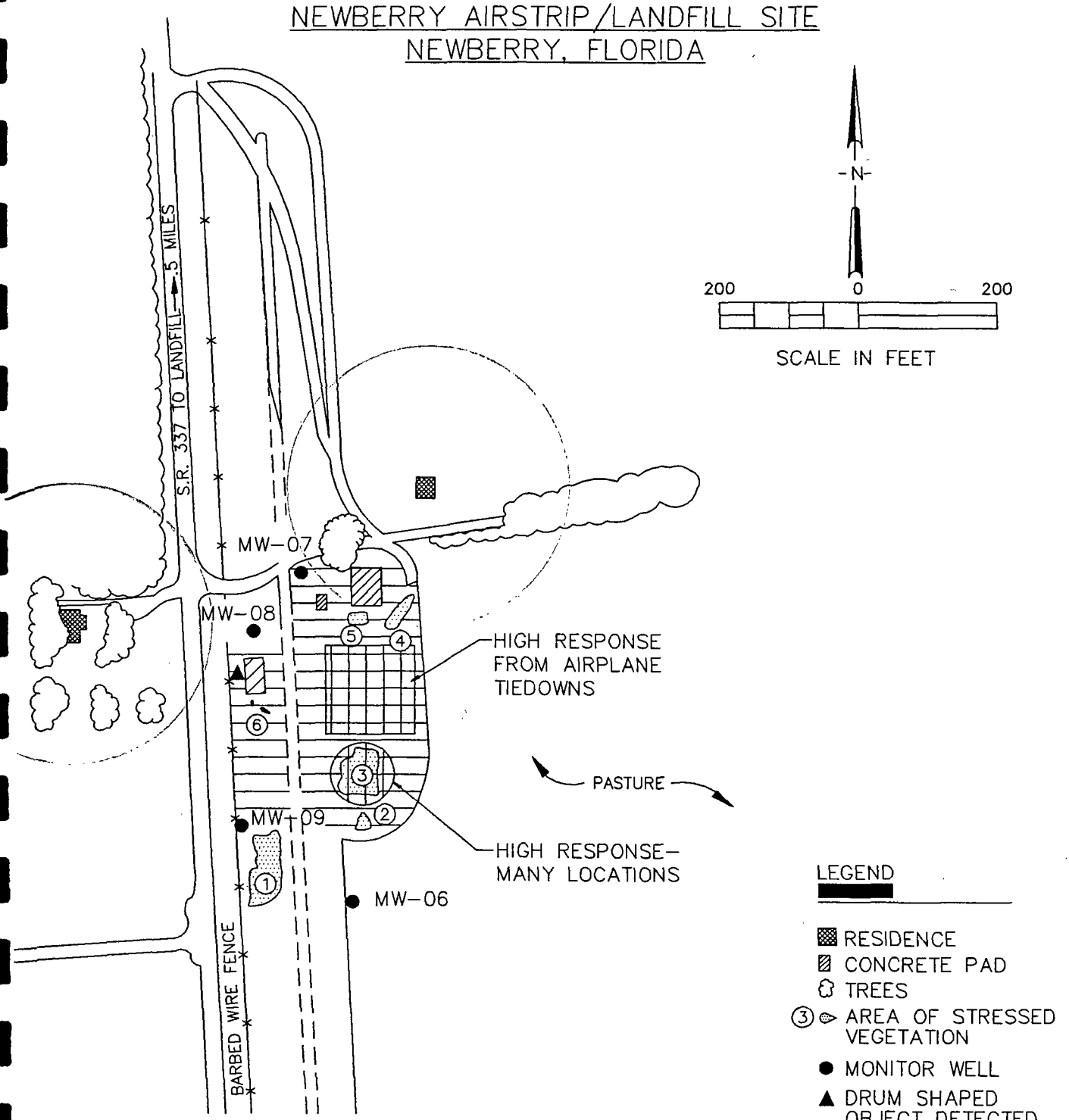


Figure 4-5

CDM

TABLE 4-4

ANALYTICAL DATA - AIRSTRIP GROUNDWATER SAMPLES PHASES I & II
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

		Constituent					
Well	Phase	Alpha BHC (ug/l)	Beta BHC (ug/l)	Gamma BHC (ug/l)	Endrin (ug/l)	Zinc (ug/l)	Phenolics Total Recoverable (mg/l)
MW-6	I	ND	—	ND	ND	0.016	0.012
MW-7	I	0.010	—	ND	ND	0.011	0.015
	II	0.020	ND	ND	—	—	—
MW-8	I	0.36	—	0.14	ND	0.019	0.013
	II	0.013	ND	ND	—	—	—
	II (Duplicate)	ND	ND	ND	—	—	—
MW-9	I	ND	—	ND	0.072	0.030	0.011
	II	ND	ND	ND	—	—	—

— Sample not analyzed.

ND - Not Detected.

mass, it is assumed that they were caused by buried tie-downs for the airplanes used during the site operations.

The survey did, however, identify two areas that may contain buried metal materials. The first area of concern is within Area 2. During soil sampling activities, various items of rubbish (aluminum cans, metal wiring, wood) were encountered in the subsurfaace. Refusal to hand augering was encountered at approximately 5.5 feet bls. This may indicate that this area was once used as a burial pit for rubbish, including pesticide containers used at the site.

The second area of concern is within Area 6, immediately adjacent to an area where an underground storage tank was removed during the FDER emergency response which took place prior to this investigation. The metal survey identified a small, drum-shaped anomaly in this area. It should be noted that soil samples collected in this area contained the highest contaminant concentrations as well as highest number of contaminants found in the soil samples collected at the airstrip. However, no buried metal materials were encountered during the soil sampling activities.

4.5 PHASE II GROUNDWATER SAMPLING INVESTIGATION

4.5.1 METHODOLOGY

Due to the presence of alpha-, beta-, and gamma-BHCs detected in the groundwater during the Phase I sampling event, monitor wells MW-7, MW-8, and MW-9 were resampled for these compounds. The sampling methodology was the same as previously discussed with the exception that a decontaminated PVC positive displacement pump instead of a submersible pump was used to purge the monitor wells.

4.5.2 ANALYTICAL RESULTS

To verify the results of the Phase I sampling, Phase II groundwater samples were analyzed for alpha-BHC, beta-BHC, and gama-BHC. Table 4-4 summarizes the analytical results. Appendix B contains the analytical laboratory results.

Alpha-BHC was the only constituent detected in the Phase II groundwater samples. Alpha-BHC concentrations in monitor wells MW-77 and MW-8 were 0.020 ug/l and 0.013 ug/l, respectively. However, the duplicate sample collected from monitor well MW-8 indicated an Alpha-BHC concentration below the method detection limit of 0.010 ug/l. The concentrations detected in the groundwater were very close to the method detection limit; therefore, this slight difference between the duplicate samples from monitor well MW-8 is not considered significant. The FDER guidance concentration for the alpha isomer of BHC is 0.05 ug/l, and the concentrations reported did not exceed that level.

4.5.3 GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT

Presented in Figure 4-6 is a potentiometric map for the airstrip site based on water elevation data collected in April 1989 from monitor wells MW-1, MW-2, MW-3, and MW-4. Analysis of water level data indicated a sight hydraulic gradient of between 0.0002 foot/foot and 0.0003 foot/foot in the approximate direction of N40°E to N60°W.

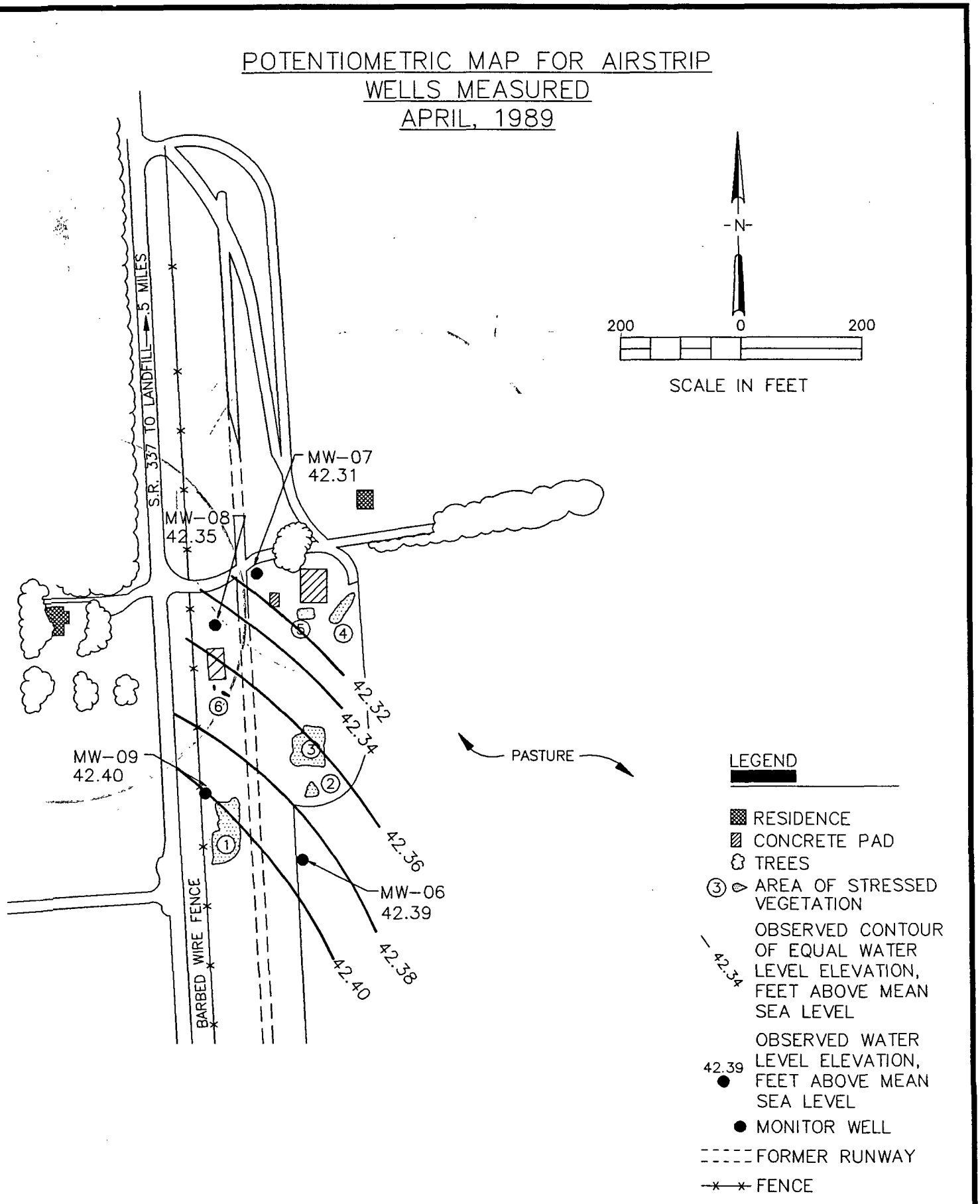


Figure 4-6

CDM

4.6 SUMMARY OF SIGNIFICANT FINDINGS

4.6.1 SOILS

Toxaphene is the major constituent detected during the Phase I and Phase II sampling. In addition, 4,4'-DDE and 4,4'-DDT, toluene, gamma-BHC, and EndoSulfan I was also reported in at least one soil sample. Presented below is a brief contamination assessment summary of each of these constituents. Table 4-2 indicates sample locations and concentrations.

Toxaphene

Figures 4-7 to 4-10 present concentration data from the 0- to 0.5-foot bls depth interval for each of the six areas sampled at the airstrip. These concentrations were above 50,000 ug/kg for surface soils in all six of the areas sampled. Area 6 showed the highest concentrations of toxaphene at the airstrip site. Toxaphene concentrations in all soil samples collected from Area 2 were somewhat lower than those concentrations detected in Area 6. The areal extent of toxaphene concentrations was not defined in Areas 2 and 6 for the samples collected at the 0- to 0.5-foot bls depth interval.

Figures 4-11 to 4-14 present concentration data from the 2.0- to 2.5-foot bls depth interval for each of the six areas sampled at the airstrip. Due to lack of data, contours of equal concentration are not included in these figures. Only one sample collected at this depth interval showed a concentration of toxaphene above 100,000 ug/kg (Figure 4-12).

Sample NS-AS11-02, collected at Area 2, indicated toxaphene concentrations of 280,000 ug/kg. A deeper soil sample was not collected at this location. Therefore, the depth of toxaphene contamination was not completely defined at this area.

ISOCONCENTRATION MAP OF TOXAPHENE– AIRSTRIP/AREA1 SAMPLING DEPTH 0.0 TO 0.5 FEET NEWBERRY AIRSTRIP/LANDFILL SITE NEWBERRY, FLORIDA

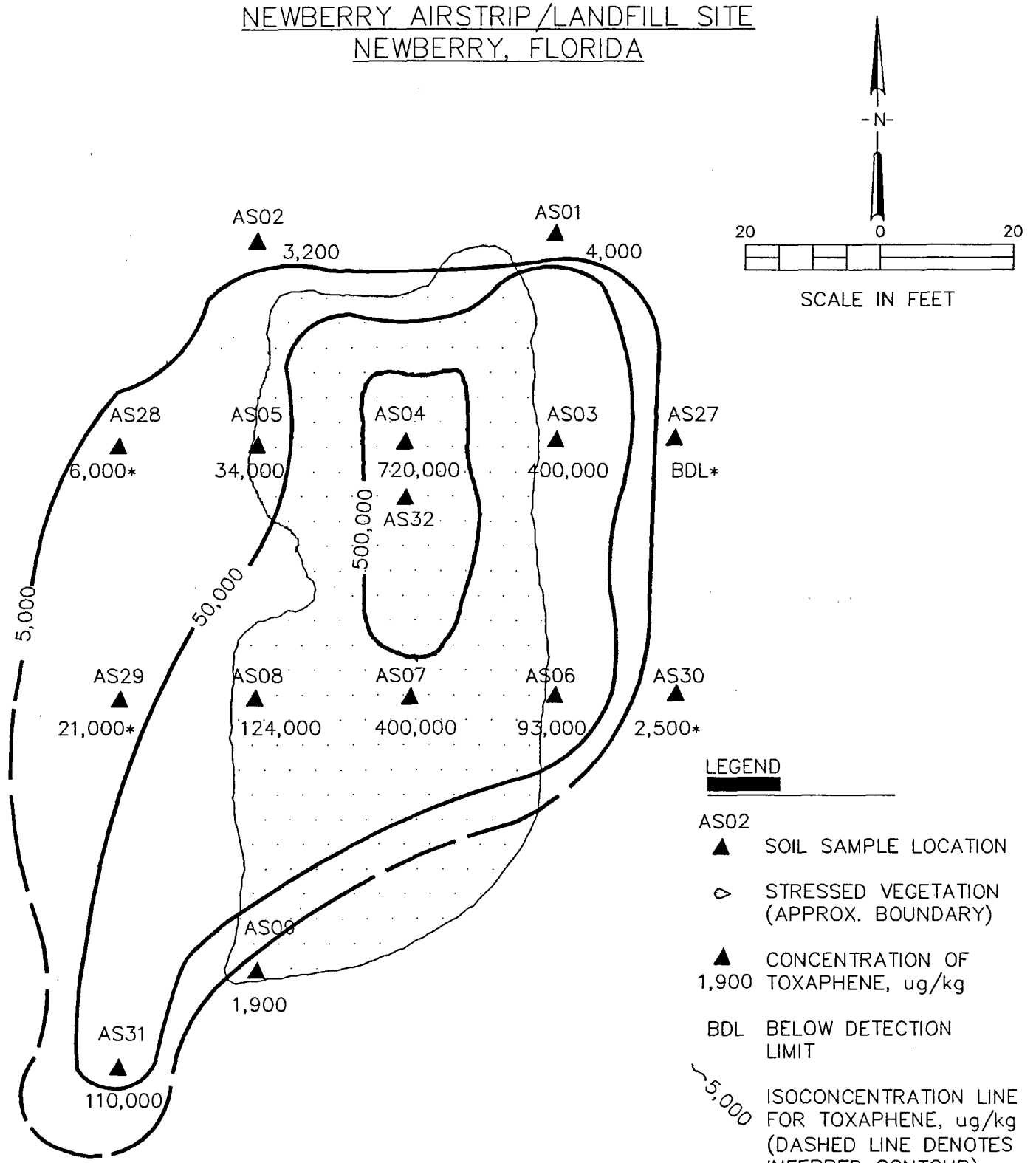
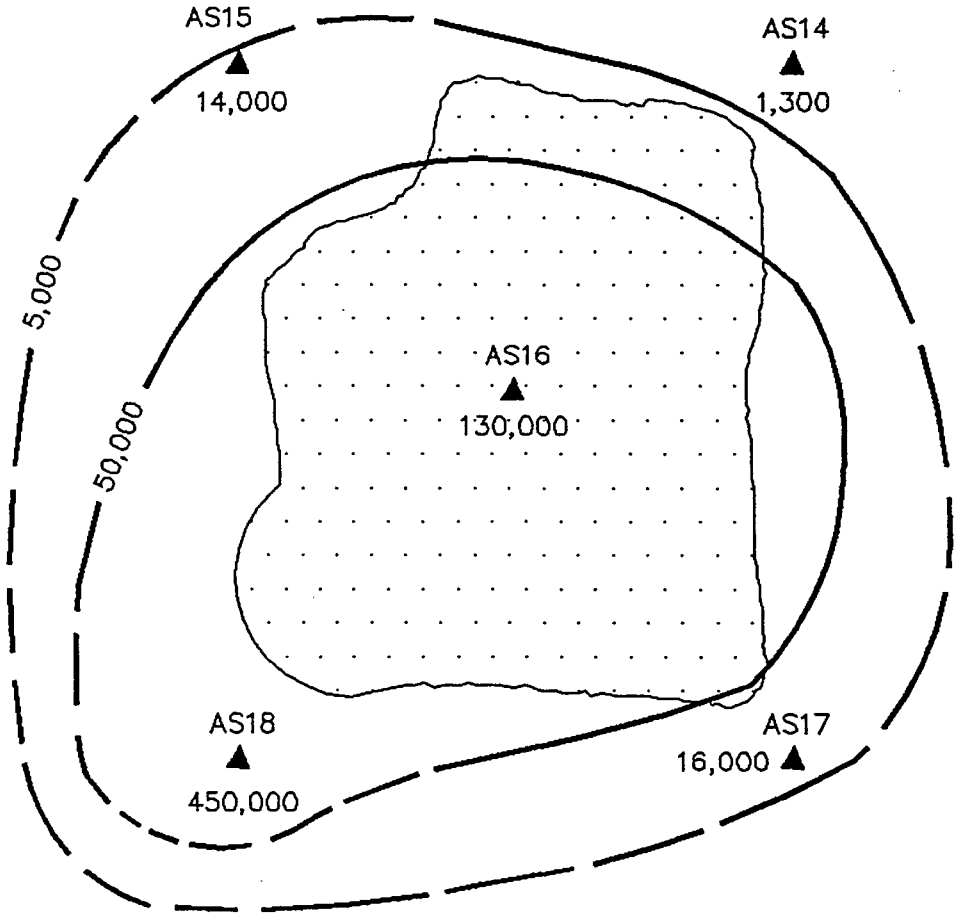


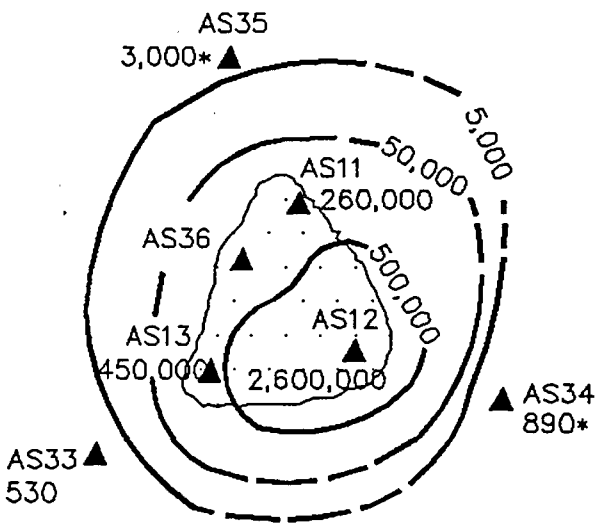
Figure 4-7

CDM

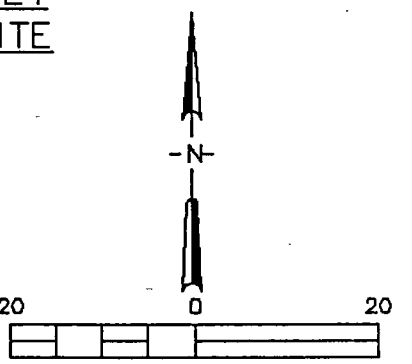
ISOCONCENTRATION MAP OF AIRSTRIP/AREAS 2 & 3 SAMPLING DEPTH 0.0 TO 0.5 FEET NEWBERRY AIRSTRIP/LANDFILL SITE NEWBERRY, FLORIDA



AREA 3



AREA 2



LEGEND

AS02 ▲ SOIL SAMPLE LOCATION

STRESSED VEGETATION (APPROX. BOUNDARY)

1,900 ▲ CONCENTRATION OF TOXAPHENE, ug/kg

BDL BELOW DETECTION LIMIT

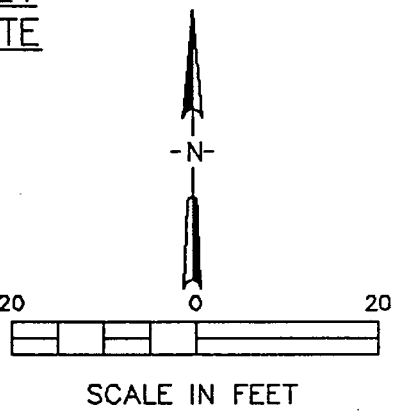
~5,000 ISOCONCENTRATION LINE FOR TOXAPHENE, ug/kg (DASHED LINE DENOTES INFERRED CONTOUR)

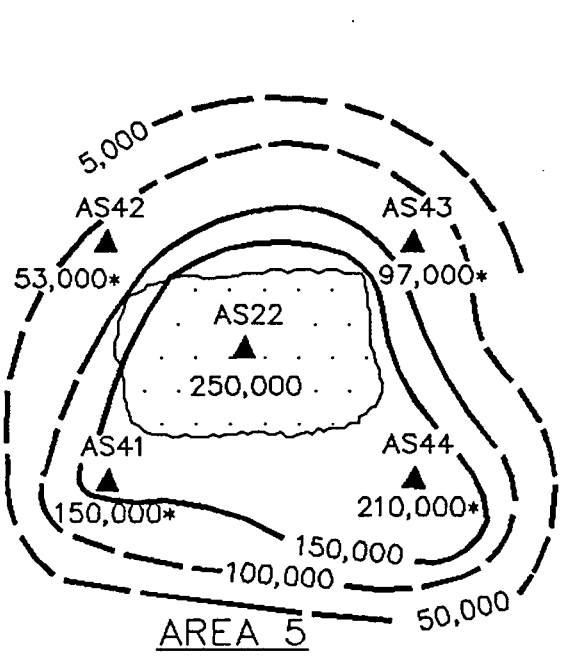
* PHASE II DATA

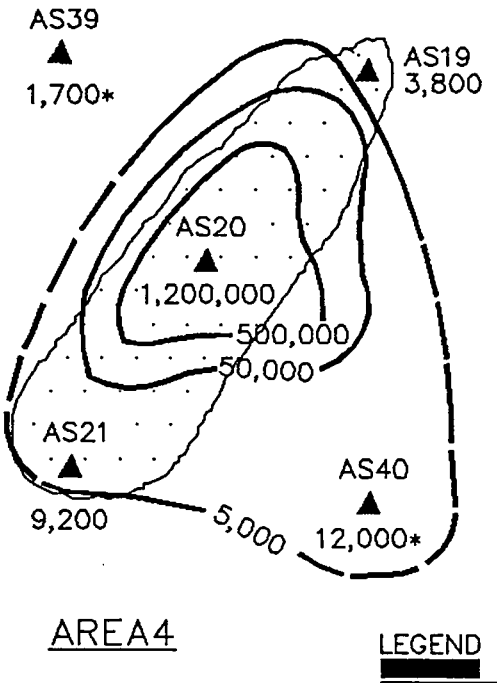
Figure 4-8

CDM

ISOCONCENTRATION MAP OF AIRSTRIP/AREAS 4 & 5 SAMPLING DEPTH 0.0 TO 0.5 FEET NEWBERRY AIRSTRIP/LANDFILL SITE NEWBERRY, FLORIDA







LEGEND

AS02 ▲ SOIL SAMPLE LOCATION

STRESSED VEGETATION (APPROX. BOUNDARY)

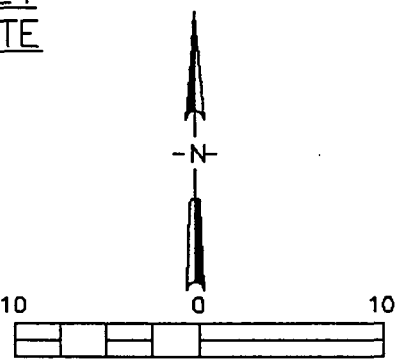
▲ 1,900 CONCENTRATION OF TOXAPHENE, ug/kg

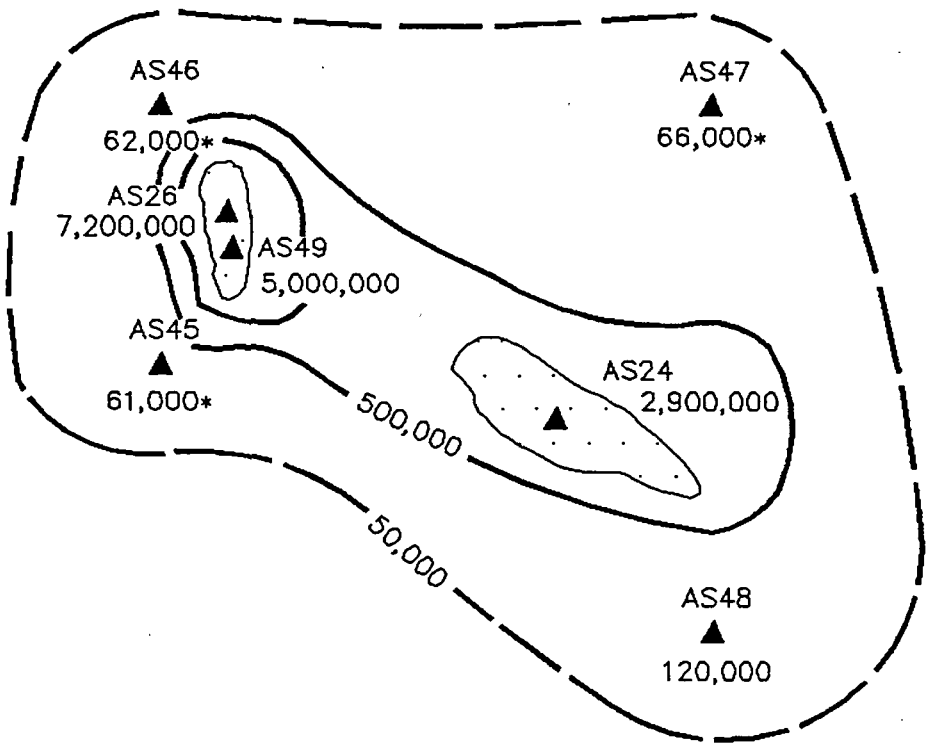
BDL BELOW DETECTION LIMIT

5,000 ISOCONCENTRATION LINE FOR TOXAPHENE, ug/kg (DASHED LINE DENOTES INFERRED CONTOUR)

Figure 4-9

ISOCONCENTRATION MAP OF TOXAPHENE
AIRSTRIP/AREA 6
SAMPLING DEPTH 0.0 TO 0.5 FEET
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA





LEGEND

AS02 ▲ SOIL SAMPLE LOCATION

STRESSED VEGETATION (APPROX. BOUNDARY)

1,900 ▲ CONCENTRATION OF TOXAPHENE, ug/kg

BDL BELOW DETECTION LIMIT

5,000 ISOCONCENTRATION LINE FOR TOXAPHENE, ug/kg (DASHED LINE DENOTES INFERRED CONTOUR)

* PHASE II DATA

Figure 4-10

TOXAPHENE CONCENTRATION DATA AT SOIL SAMPLE LOCATIONS– AIRSTRIP/AREA1
SAMPLING DEPTH 2.0 TO 2.5 FEET
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

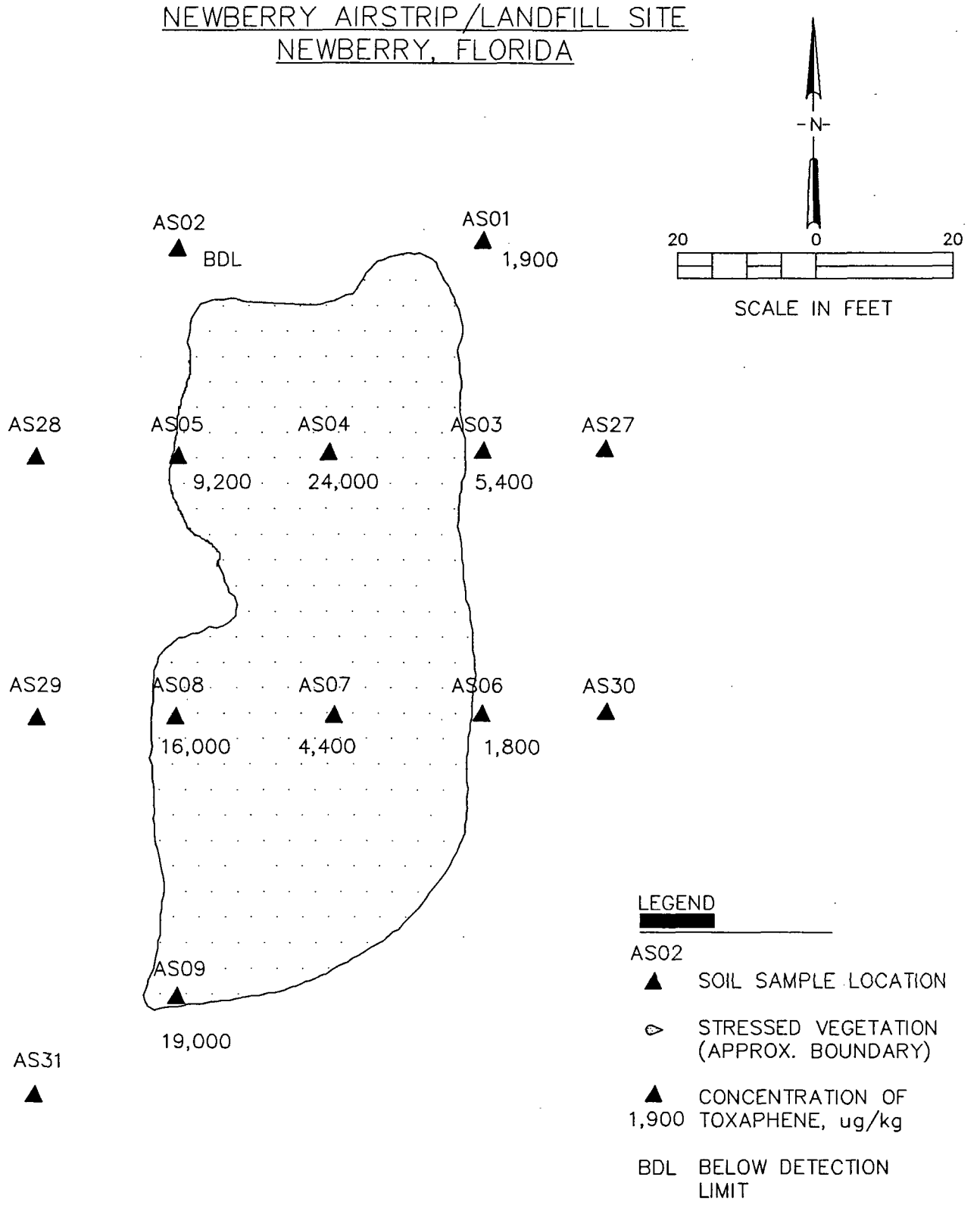


Figure 4-11

CDM

TOXAPHENE CONCENTRATION DATA AT SOIL SAMPLE LOCATIONS– AIRSTRIP/AREAS 2 & 3
SAMPLING DEPTH 2.0 TO 2.5 FEET
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

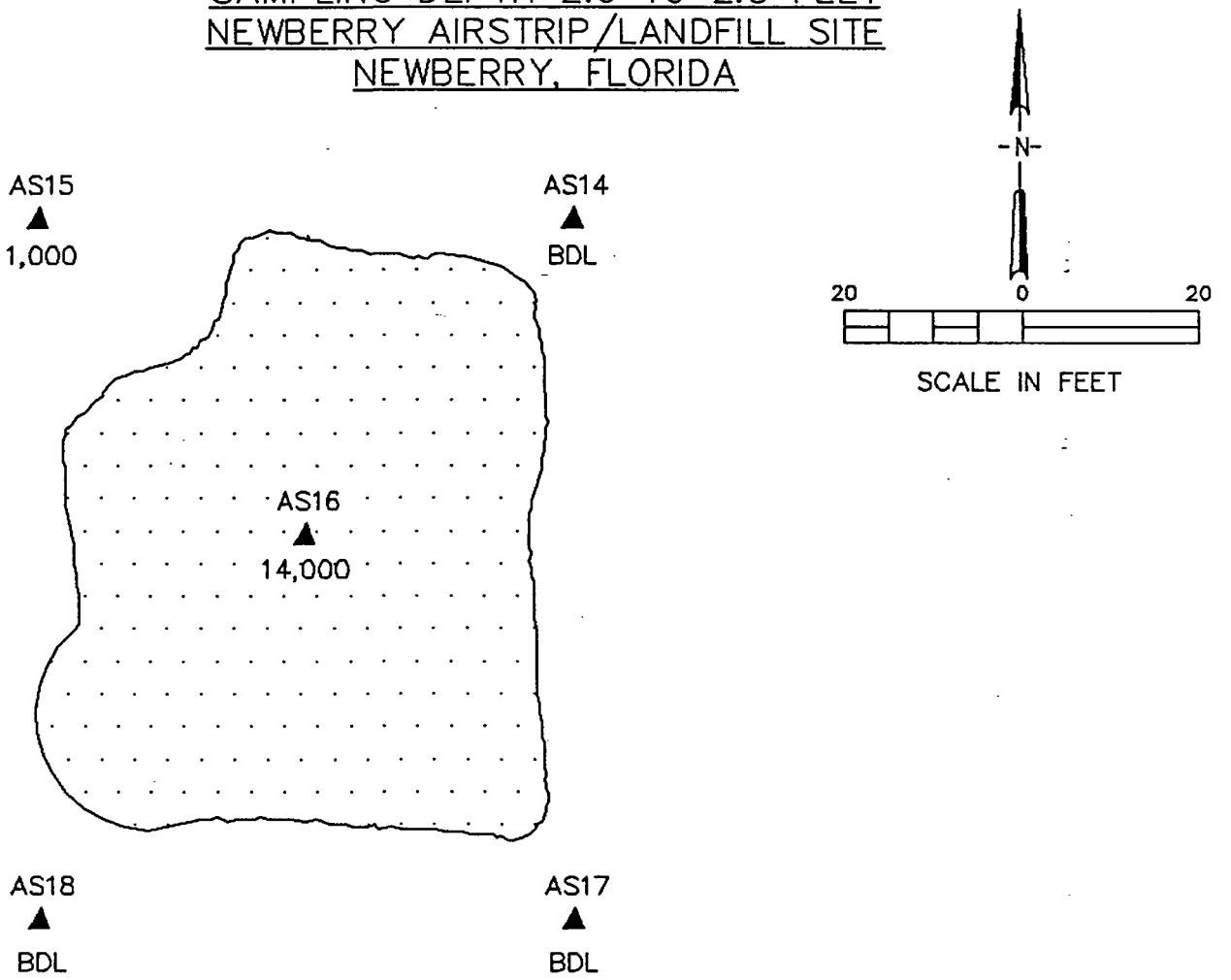
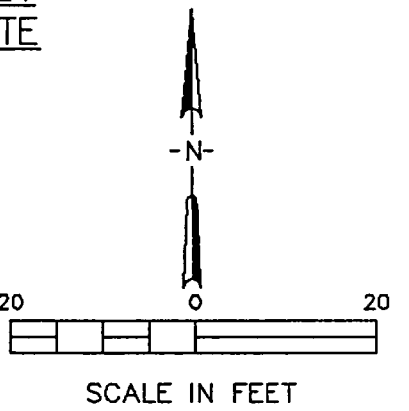
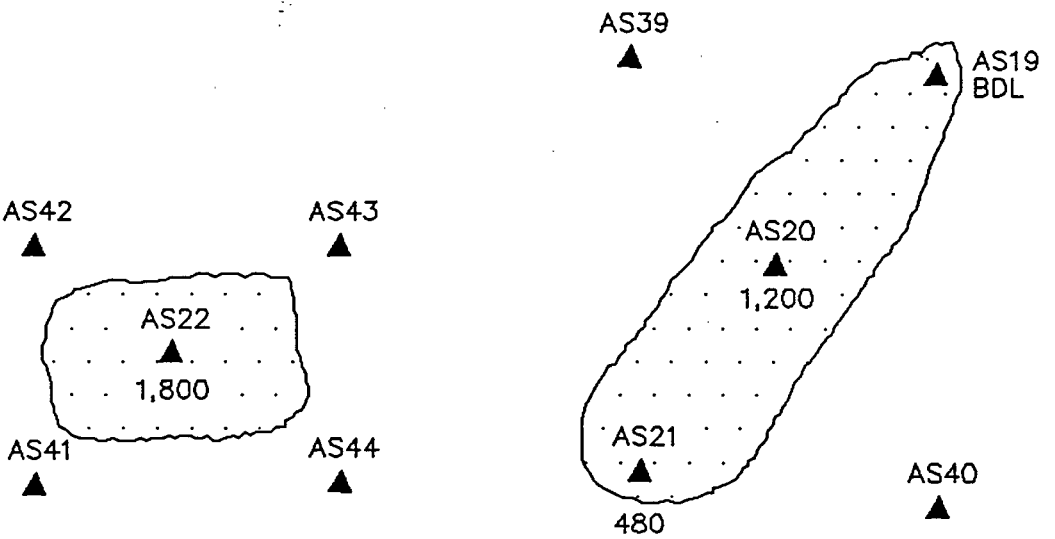


Figure 4-12

CDM

TOXAPHENE CONCENTRATION DATA AT SOIL SAMPLE LOCATIONS– AIRSTRIP/AREAS 4 & 5
SAMPLING DEPTH 2.0 TO 2.5 FEET
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA





AREA 5

AREA4

LEGEND

AS02 ▲ SOIL SAMPLE LOCATION

STRESSED VEGETATION (APPROX. BOUNDARY)

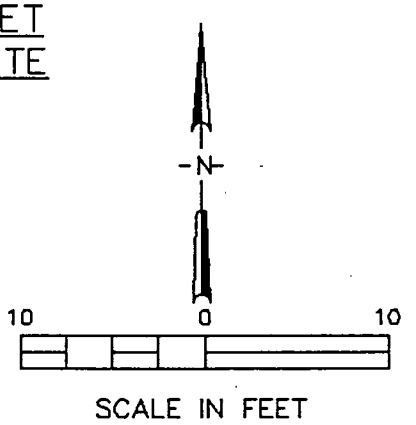
1,900 ▲ CONCENTRATION OF TOXAPHENE, ug/kg

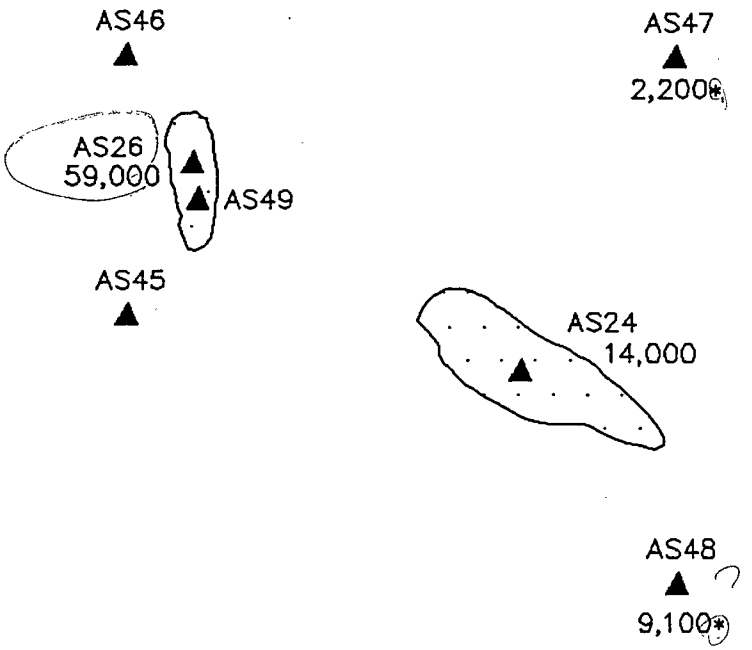
BDL BELOW DETECTION LIMIT

Figure 4-13

CDM

TOXAPHENE CONCENTRATION DATA SOIL SAMPLE LOCATIONS– AIRSTRIP/AREA 6 SAMPLING DEPTH 2.0 TO 2.5 FEET NEWBERRY AIRSTRIP/LANDFILL SITE NEWBERRY, FLORIDA





LEGEND

AS02 ▲ SOIL SAMPLE LOCATION

STRESSED VEGETATION (APPROX. BOUNDARY)

1,900 ▲ CONCENTRATION OF TOXAPHENE, ug/kg

BDL BELOW DETECTION LIMIT

Figure 4-14

Toxaphene concentrations detected in all soil samples collected at a depth of 5 to 5.5 feet bls, 7.0 to 7.5 feet bls, and 10 to 10.5 feet bls were below 100,000 ug/kg. Due to the limited data collected at these depth intervals, toxaphene concentration maps were not compiled.

4,4'-DDE and 4,4'-DDT

Relatively low levels of these constituents were detected in the background shallow sample. Concentrations of 4,4'-DDE and 4,4'-DDT were detected at 16 ug/kg and 18 ug/kg, respectively.

Toluene

A relatively low toluene concentration of 15 ug/kg was detected in one soil sample collected from Area 5.

Gamma-BHC

Elevated levels of gamma BHC were detected in the 0- to 5-foot bls depth interval and the 2.0- to 2.5-foot bls depth interval from one sample collected in Area 6. Concentrations of gamma BHC in the sample collected at the 0- to 0.5-foot bls depth interval was 239,000 ug/kg. the concentration of gamma BHC decreased to 610 ug/kg in the sample collected at the sample location but at the 2.0- to 2.5-foot bls depth interval. In addition, gamma-BHC concentrations of 1,100 ug/kg and 68 ug/kg were detected in samples collected at the same location but at a depth of 7.0 to 7.5 feet bls and 10.0 to 10.5 feet bls, respectively. A deeper soil sample was not collected, so contamination was not completely defined within Area 6.

EndoSulfan I

Elevated levels of EndoSulfan I were detected in the 0- to 5-foot bls depth interval and the 2.0- to 2.5-foot bls depth interval from one sample collected in Area 6. Concentrations of EndoSulfan I in the sample collected at the 0- to 0.5-foot bls depth interval was 570,000 ug/kg collected at the same location, but 1,000 ug/kg at the 2.0- to 2.5-foot bls depth interval. In addition, a relatively low concentration of 30 ug/kg of EndoSulfan I was detected in a sample collected at the same location but at a depth of 12.0 to 12.5 feet bls.

Area 6 also had significant concentrations of toxaphene in the soils. Therefore, any excavation of toxaphene-contaminated soils in this area would more than likely remove any EndoSulfan I contaminated soils.

A low EndoSulfan I concentration of 73 ug/kg was detected in one sample for Area 1.

4.6.2 GROUNDWATER

Alpha BHC, gamma BHC, endrin, copper, zinc, and total recoverable phenolics were detected in at least one of the groundwater samples collected at the airstrip site. Presented below is a brief contaminant assessment summary of each of these parameters.

Alpha BHC

Phase I and Phase II groundwater sampling detected minor amounts of alpha-BHC in samples from MW-7 and MW-8. Alpha BHC concentrations of 0.010 and 0.036 ug/l were detected in monitor wells MW-7 and MW-8, respectively, during Phase I sampling. Similar concentrations of 0.020 ug/l and 0.013 ug/l were detected in MW-7 and MW-8, respectively, during Phase II sampling. However, the duplicate sample collected in Phase II from MW-8 indicated 0.010 ug/l. The concentrations detected in the groundwater were

very close to the method detection limit; therefore, this slight difference between the duplicate samples from MW-8 is not considered significant.

Gamma-BHC

A low gamma-BHC concentration of 0.14 ug/l was detected in Phase I groundwater sampling from MW-8. Phase II resampling of this well showed gamma-BHC concentrations below the detection limit.

Endrin

A low endrin concentration of 0.072 ug/l was detected in one sample collected from MW-9 in Phase I sampling.

In addition copper, zinc, and total recoverable phenolics were detected in at least one monitor well sampled at the airstrip site. Concentrations of these constituents were all at levels below FDER guidance concentrations.

4.6.3 GENERALIZED CONTAMINANT CHARACTERIZATION

Presented in the following paragraphs is a generalized summary of background information on the primary contaminants detected during the sampling program at the landfill site. Background information for toxaphene, 4,4'-DDT, and 4,4'-DDD were presented in Section 3.4.2 of the landfill assessment. This background information is summarized from Sittig (1980).

BHC is the common name for the mixed configuration isomers of 1, 2, 3, 4, 6-hexachlorocyclohezane. Lindane is the common name for the gamma isomer of this compound. Hexachlorocyclohexane is a broad spectrum insecticide of the group of cyclic chlorinated hydrocarbons called organochlorine insecticides. The isomers of BHC are not susceptible to breakdown by photolysis or strong acids but are, with the exception of the beta-isomer, dehydrochlorinated by alkalies to form primarily 1,2,4-trichlorobenzene. Lindane has been shown to be slowly degraded by soil microorganisms.

EndoSulfan is also a broad spectrum insecticide and is on the Environmental Protection Agency's restricted list. However, endosulfan is still used significantly for insect control on vegetables, fruits, and tobacco. In the environment, endosulfan is metabolically converted by microorganisms, plants, and animals to endosulfan sulfate, endosulfandiol, endosulfan ether, endosulfan hydroxyether, and endosulfan lactone. Of these conversion products, endosulfan sulfate is of toxicologic importance. Endosulfan is known to readily adsorb to sediments.

4.6.4 RECOMMENDATIONS

Excavation of soils where toxaphene and gamma-BHC were detected in concentrations above 50,000 ug/kg is recommended as an interim measure. Additional verification sampling will be needed to better define the total area of elevated toxaphene concentration in Areas 1 and 2 and the total area of elevated gamma-BHC concentration in Area 6. Soil sampling of the excavated areas is also recommended to ensure that all excessive contamination is excavated. Due to the possibility of the soil excavation causing a release of pesticide vapors, appropriate measures should be taken to protect surrounding residences during any remediation activity.

Elevated levels of groundwater contaminants appear to be localized at the airstrip site. Therefore, based on the current data, no interim actions regarding groundwater remediation are recommended.

what does this mean?

REFERENCES

NUS Corporation. June 17, 1985. Site Screening Report, Newberry Landfill, Newberry, Florida.

Florida Department of Environmental Regulation, Bureau of Groundwater Protection, January 1987. Groundwater Investigation Report No. 87-01, Newberry Landfill, Alachua County.

Florida Department of Environmental Regulation, Bureau of Groundwater Protection, February 1989. Groundwater Guidance Concentrations.

Sittig, Marshall, 1980, Priority Toxic Pollutants, Health Impacts and Allowable Limits, Noyes Data Corporation, Park Ridge, New Jersey.

Appendix A

Phase I Data

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SAVANNAH LABORATORIES
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LOG NO: 89-0844

Received: 24 MAR 89

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-13	NS-AS01-01	Client
0844-14	NS-AS01-02	
0844-15	NS-AS02-01	
0844-16	NS-AS02-02	
0844-17	NS-AS03-01	

PARAMETER	0844-13	0844-14	0844-15	0844-16	0844-17
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<50	<50	<50	<100	<2500
2,4-DB, ug/kg dw	<50	<50	<50	<100	<2500
2,4,5-T, ug/kg dw	<30	<30	<30	<60	<1500
2,4,5-TP Silvex, ug/kg dw	<10	<10	<10	<20	<500
Dalapon, ug/kg dw	<1000	<1000	<1000	<2000	<50000
Dicamba, ug/kg dw	<10	<10	<10	<20	<500
Dichlorprop, ug/kg dw	<50	<50	<50	<100	<2500
Dinoseb, ug/kg dw	<50	<50	<50	<100	<2500
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	<1000	<1000	<2000	<50000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	<1000	<1000	<2000	<50000

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LOG NO: 89-0844

Received: 24 MAR 89

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Clearwater, Florida 33546

Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-13	NS-AS01-01	Client
0844-14	NS-AS01-02	
0844-15	NS-AS02-01	
0844-16	NS-AS02-02	
0844-17	NS-AS03-01	

PARAMETER	0844-13	0844-14	0844-15	0844-16	0844-17
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<10	<5	<10	<2	<1000
alpha-BHC, ug/kg dw	<10	<5	<10	<2	<1000
beta-BHC, ug/kg dw	<10	<5	<10	<2	<1000
gamma-BHC, ug/kg dw	<10	<5	<10	<2	<1000
delta-BHC, ug/kg dw	<10	<5	<10	<2	<1000
Chlordane, ug/kg dw	<100	<50	<100	<20	<10000
4,4'-DDD, ug/kg dw	<20	<10	<20	<4	<2000
4,4'-DDE, ug/kg dw	<20	<10	<20	<4	<2000
4,4'-DDT, ug/kg dw	<50	<25	<50	<10	<5000
Dieldrin, ug/kg dw	<20	<10	<20	<4	<2000
Endosulfan I, ug/kg dw	<20	<10	<20	<4	<2000
Endosulfan II, ug/kg dw	<50	<25	<50	<10	<5000
Endosulfan sulfate, ug/kg dw	<80	<40	<80	<16	<8000
Endrin, ug/kg dw	<20	<10	<20	<4	<2000
Endrin Aldehyde, ug/kg dw	<100	<50	<100	<20	<10000
Heptachlor, ug/kg dw	<10	<5	<10	<2	<1000
Heptachlor epoxide, ug/kg dw	<20	<10	<20	<4	<2000
Kepone, ug/kg dw	<50	<25	<50	<10	<5000

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SAVANNAH LABORATORIES
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LOG NO: 89-0844

Received: 24 MAR 89

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-13	NS-AS01-01	Client
0844-14	NS-AS01-02	
0844-15	NS-AS02-01	
0844-16	NS-AS02-02	
0844-17	NS-AS03-01	

PARAMETER	0844-13	0844-14	0844-15	0844-16	0844-17
Methoxychlor, ug/kg dw	<400	<200	<400	<80	<40000
Toxaphene, ug/kg dw	4000	1900	3200	<160	400000
Aroclor-1016, ug/kg dw	<400	<200	<400	<80	<40000
Aroclor-1221, ug/kg dw	<400	<200	<400	<80	<40000
Aroclor-1232, ug/kg dw	<400	<200	<400	<80	<40000
Aroclor-1242, ug/kg dw	<400	<200	<400	<80	<40000
Aroclor-1248, ug/kg dw	<400	<200	<400	<80	<40000
Aroclor-1254, ug/kg dw	<400	<200	<400	<80	<40000
Aroclor-1260, ug/kg dw	<400	<200	<400	<80	<40000

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0844-14	NS-AS01-02	
0844-15	NS-AS02-01	
0844-16	NS-AS02-02	
0844-17	NS-AS03-01	

PARAMETER	0844-13	0844-14	0844-15	0844-16	0844-17
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<20	<20	<20	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-14	NS-AS01-02	
0844-15	NS-AS02-01	
0844-16	NS-AS02-02	
0844-17	NS-AS03-01	

PARAMETER	0844-13	0844-14	0844-15	0844-16	0844-17
Primary metals					
Arsenic, mg/kg dw	19	1.5	1.0	1.6	7.6
Barium, mg/kg dw	67	8.6	7.6	5.3	78
Cadmium, mg/kg dw	1.1	<0.24	<0.24	<0.25	1.6
Chromium, mg/kg dw	23	1.9	2.3	2.0	29
Lead, mg/kg dw	7.7	0.46	2.2	0.82	8.5
Selenium, mg/kg dw	<0.97	<0.90	<0.93	<0.90	<1.2
Silver, mg/kg dw	<1.0	<0.97	<0.94	<0.99	<1.3
Mercury, mg/kg dw	<0.027	<0.025	<0.026	<0.026	<0.035

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0844-19	NS-AS04-01	
0844-20	NS-AS04-02	
0844-21	NS-AS05-01	
0844-22	NS-AS05-02	

PARAMETER	0844-18	0844-19	0844-20	0844-21	0844-22
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<50	<50	<500	<50	<100
2,4-DB, ug/kg dw	<50	<50	<500	<50	<100
2,4,5-T, ug/kg dw	<30	<30	<300	<30	<60
2,4,5-TP Silvex, ug/kg dw	<10	<10	<100	<10	<20
Dalapon, ug/kg dw	<1000	<1000	<10000	<1000	<2000
Dicamba, ug/kg dw	<10	<100	<100	<10	<20
Dichlorprop, ug/kg dw	<50	<50	<500	<50	<100
Dinoseb, ug/kg dw	<50	<50	<500	<50	<100
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	<1000	<10000	<1000	<2000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	<1000	<10000	<1000	<2000

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0844-19	NS-AS04-01	
0844-20	NS-AS04-02	
0844-21	NS-AS05-01	
0844-22	NS-AS05-02	

PARAMETER	0844-18	0844-19	0844-20	0844-21	0844-22
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<20	<1000	<100	<1000	<20
alpha-BHC, ug/kg dw	<20	<1000	<100	<1000	<20
beta-BHC, ug/kg dw	<20	<1000	<100	<1000	<20
gamma-BHC, ug/kg dw	<20	<1000	<100	<1000	<20
delta-BHC, ug/kg dw	<20	<1000	<100	<1000	<20
Chlordane, ug/kg dw	<200	<10000	<1000	<10000	<200
4,4'-DDD, ug/kg dw	<40	<2000	<200	<2000	<40
4,4'-DDE, ug/kg dw	<40	<2000	<200	<2000	<40
4,4'-DDT, ug/kg dw	<100	<5000	<500	<5000	<100
Dieldrin, ug/kg dw	<40	<2000	<200	<2000	<40
Endosulfan I, ug/kg dw	<40	<2000	<200	<2000	<40
Endosulfan II, ug/kg dw	<100	<5000	<500	<5000	<100
Endosulfan sulfate, ug/kg dw	<160	<8000	<800	<8000	<160
Endrin, ug/kg dw	<40	<2000	<200	<2000	<40
Endrin Aldehyde, ug/kg dw	<200	<10000	<1000	<10000	<200
Heptachlor, ug/kg dw	<20	<1000	<100	<1000	<20
Heptachlor epoxide, ug/kg dw	<40	<2000	<200	<2000	<40
Kepone, ug/kg dw	<100	<5000	<500	<5000	<100

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0844-19	NS-AS04-01	
0844-20	NS-AS04-02	
0844-21	NS-AS05-01	
0844-22	NS-AS05-02	

PARAMETER	0844-18	0844-19	0844-20	0844-21	0844-22
Methoxychlor, ug/kg dw	<800	<40000	<4000	<40000	<800
Toxaphene, ug/kg dw	5400	720000	24000	340000	9200
Aroclor-1016, ug/kg dw	<800	<40000	<4000	<40000	<800
Aroclor-1221, ug/kg dw	<800	<40000	<4000	<40000	<800
Aroclor-1232, ug/kg dw	<800	<40000	<4000	<40000	<800
Aroclor-1242, ug/kg dw	<800	<40000	<4000	<40000	<800
Aroclor-1248, ug/kg dw	<800	<40000	<4000	<40000	<800
Aroclor-1254, ug/kg dw	<800	<40000	<4000	<40000	<800
Aroclor-1260, ug/kg dw	<800	<40000	<4000	<40000	<800

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0844-19	NS-AS04-01	
0844-20	NS-AS04-02	
0844-21	NS-AS05-01	
0844-22	NS-AS05-02	

PARAMETER	0844-18	0844-19	0844-20	0844-21	0844-22
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<2
Demeton-S, ug/kg dw	<20	<20	<20	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<2
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-19	NS-AS04-01	
0844-20	NS-AS04-02	
0844-21	NS-AS05-01	
0844-22	NS-AS05-02	

PARAMETER	0844-18	0844-19	0844-20	0844-21	0844-22
Primary metals					
Arsenic, mg/kg dw	1.3	1.6	2.0	2.0	0.90
Barium, mg/kg dw	5.3	13	6.4	7.8	5.0
Cadmium, mg/kg dw	<0.23	<0.25	<0.24	<0.24	<0.24
Chromium, mg/kg dw	1.6	3.3	1.9	2.6	1.7
Lead, mg/kg dw	0.71	2.1	0.92	2.7	1.0
Selenium, mg/kg dw	<0.94	3.1	<1.0	<0.95	<0.90
Silver, mg/kg dw	<0.94	<0.98	<0.95	<0.97	<0.95
Mercury, mg/kg dw	<0.024	<0.027	<0.026	<0.026	<0.026

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0844-24	NS-AS06-02	
0844-25	NS-AS07-01	
0844-26	NS-AS07-02	
0844-27	NS-AS08-01	

PARAMETER	0844-23	0844-24	0844-25	0844-26	0844-27
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<50	<50	<500	<100	<50
2,4-DB, ug/kg dw	<50	<50	<500	<100	<50
2,4,5-T, ug/kg dw	<30	<30	<300	<60	<30
2,4,5-TP Silvex, ug/kg dw	<10	<10	<100	<20	<10
Dalapon, ug/kg dw	<1000	<1000	<10000	<2000	<1000
Dicamba, ug/kg dw	<10	<10	<100	<20	<10
Dichlorprop, ug/kg dw	<50	<50	<500	<100	<50
Dinoseb, ug/kg dw	<50	<50	<500	<100	<50
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	<1000	<10000	<2000	<1000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	<1000	<10000	<2000	<1000

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0844-24	NS-AS06-02	
0844-25	NS-AS07-01	
0844-26	NS-AS07-02	
0844-27	NS-AS08-01	

PARAMETER	0844-23	0844-24	0844-25	0844-26	0844-27
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<500	<5	<1000	<10	<500
alpha-BHC, ug/kg dw	<500	<5	<1000	<10	<500
beta-BHC, ug/kg dw	<500	<5	<1000	<10	<500
gamma-BHC, ug/kg dw	<500	<5	<1000	<10	<500
delta-BHC, ug/kg dw	<500	<5	<1000	<10	<500
Chlordane, ug/kg dw	<5000	<50	<10000	<100	<5000
4,4'-DDD, ug/kg dw	<1000	<10	<2000	<20	<1000
4,4'-DDE, ug/kg dw	<1000	<10	<2000	<20	<1000
4,4'-DDT, ug/kg dw	<2500	<25	<5000	<50	<2500
Dieldrin, ug/kg dw	<1000	<10	<2000	<20	<1000
Endosulfan I, ug/kg dw	<1000	<10	<2000	<20	<1000
Endosulfan II, ug/kg dw	<2500	<25	<5000	<50	<2500
Endosulfan sulfate, ug/kg dw	<4000	<40	<8000	<80	<4000
Endrin, ug/kg dw	<1000	<10	<2000	<20	<1000
Endrin Aldehyde, ug/kg dw	<5000	<50	<10000	<100	<5000
Heptachlor, ug/kg dw	<500	<5	<1000	<10	<500
Heptachlor epoxide, ug/kg dw	<1000	<10	<2000	<20	<1000
Kepone, ug/kg dw	<2500	<25	<5000	<50	<2500

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0844-24	NS-AS06-02	
0844-25	NS-AS07-01	
0844-26	NS-AS07-02	
0844-27	NS-AS08-01	

PARAMETER	0844-23	0844-24	0844-25	0844-26	0844-27
Methoxychlor, ug/kg dw	<20000	<200	<40000	<400	<20000
Toxaphene, ug/kg dw	93000	1800	400000	4400	124000
Aroclor-1016, ug/kg dw	<20000	<200	<40000	<400	<20000
Aroclor-1221, ug/kg dw	<20000	<200	<40000	<400	<20000
Aroclor-1232, ug/kg dw	<20000	<200	<40000	<400	<20000
Aroclor-1242, ug/kg dw	<20000	<200	<40000	<400	<20000
Aroclor-1248, ug/kg dw	<20000	<200	<40000	<400	<20000
Aroclor-1254, ug/kg dw	<20000	<200	<40000	<400	<20000
Aroclor-1260, ug/kg dw	<20000	<200	<40000	<400	<20000

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0844-24	NS-AS06-02	
0844-25	NS-AS07-01	
0844-26	NS-AS07-02	
0844-27	NS-AS08-01	

PARAMETER	0844-23	0844-24	0844-25	0844-26	0844-27
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<20	<20	<20	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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LOG NO: 89-0844

Received: 24 MAR 89

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-23	NS-AS06-01	Client
0844-24	NS-AS06-02	
0844-25	NS-AS07-01	
0844-26	NS-AS07-02	
0844-27	NS-AS08-01	

PARAMETER	0844-23	0844-24	0844-25	0844-26	0844-27
Primary metals					
Arsenic, mg/kg dw	8.6	3.2	2.3	1.4	2.4
Barium, mg/kg dw	41	7.4	12	6.9	12
Cadmium, mg/kg dw	0.64	<0.23	<0.24	<0.25	<0.25
Chromium, mg/kg dw	15	1.8	3.3	1.4	2.9
Lead, mg/kg dw	8.1	1.5	2.6	1.2	1.7
Selenium, mg/kg dw	<0.93	<0.93	<0.88	<0.80	<0.93
Silver, mg/kg dw	<1.0	<0.93	<0.95	<0.96	<0.98
Mercury, mg/kg dw	0.036	<0.026	<0.026	0.025	<0.024

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-28	NS-AS08-02	Client
0844-29	NS-AS09-01	
0844-30	NS-AS09-02	
0844-31	NS-AS10-02	
0844-32	NS-AS11-01	

PARAMETER	0844-28	0844-29	0844-30	0844-31	0844-32
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<50	<100	<50	<50	<50
2,4-DB, ug/kg dw	<50	<100	<50	<50	<50
2,4,5-T, ug/kg dw	<30	<60	<30	<30	<30
2,4,5-TP Silvex, ug/kg dw	<10	<20	<10	<10	<10
Dalapon, ug/kg dw	<1000	<2000	<1000	<1000	<1000
Dicamba, ug/kg dw	<10	<20	<10	<10	<10
Dichlorprop, ug/kg dw	<50	<100	<50	<50	<50
Dinoseb, ug/kg dw	<50	<100	<50	<50	<50
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	<2000	<1000	<1000	<1000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	<2000	<1000	<1000	<1000

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0844-29	NS-AS09-01	
0844-30	NS-AS09-02	
0844-31	NS-AS10-02	
0844-32	NS-AS11-01	

PARAMETER	0844-28	0844-29	0844-30	0844-31	0844-32
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<20	<10	<500	<20	<500
alpha-BHC, ug/kg dw	<20	<10	<500	<20	<500
beta-BHC, ug/kg dw	<20	<10	<500	<20	<500
gamma-BHC, ug/kg dw	<20	<10	<500	<20	<500
delta-BHC, ug/kg dw	<20	<10	<500	<20	<500
Chlordane, ug/kg dw	<200	<100	<5000	<200	<5000
4,4'-DDD, ug/kg dw	<40	<20	<1000	<40	<1000
4,4'-DDE, ug/kg dw	<40	<20	<1000	<40	<1000
4,4'-DDT, ug/kg dw	<100	<50	<2500	<100	<2500
Dieldrin, ug/kg dw	<40	<20	<1000	<40	<1000
Endosulfan I, ug/kg dw	<40	<20	<1000	<40	<1000
Endosulfan II, ug/kg dw	<100	<50	<2500	<100	<2500
Endosulfan sulfate, ug/kg dw	<160	<80	<4000	<160	<4000
Endrin, ug/kg dw	<40	<20	<1000	<40	<1000
Endrin Aldehyde, ug/kg dw	<200	<100	<5000	<200	<5000
Heptachlor, ug/kg dw	<20	<10	<500	<20	<500
Heptachlor epoxide, ug/kg dw	<40	<20	<1000	<40	<1000
Kepone, ug/kg dw	<100	<50	<2500	<100	<2500

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0844-29	NS-AS09-01	
0844-30	NS-AS09-02	
0844-31	NS-AS10-02	
0844-32	NS-AS11-01	

PARAMETER	0844-28	0844-29	0844-30	0844-31	0844-32
Methoxychlor, ug/kg dw	<800	<400	<20000	<800	<20000
Toxaphene, ug/kg dw	16000	1900	110000	9500	260000
Aroclor-1016, ug/kg dw	<800	<400	<20000	<800	<20000
Aroclor-1221, ug/kg dw	<800	<400	<20000	<800	<20000
Aroclor-1232, ug/kg dw	<800	<400	<20000	<800	<20000
Aroclor-1242, ug/kg dw	<800	<400	<20000	<800	<20000
Aroclor-1248, ug/kg dw	<800	<400	<20000	<800	<20000
Aroclor-1254, ug/kg dw	<800	<400	<20000	<800	<20000
Aroclor-1260, ug/kg dw	<800	<400	<20000	<800	<20000

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0844-29	NS-AS09-01	
0844-30	NS-AS09-02	
0844-31	NS-AS10-02	
0844-32	NS-AS11-01	

PARAMETER	0844-28	0844-29	0844-30	0844-31	0844-32
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<20	<20	<20	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-28	NS-AS08-02	Client
0844-29	NS-AS09-01	
0844-30	NS-AS09-02	
0844-31	NS-AS10-02	
0844-32	NS-AS11-01	

PARAMETER	0844-28	0844-29	0844-30	0844-31	0844-32
Primary metals					
Arsenic, mg/kg dw	<0.93	1.8	2.1	1.6	2.5
Barium, mg/kg dw	4.8	11	9.9	7.8	11
Cadmium, mg/kg dw	<0.25	<0.24	<0.29	<0.24	<0.24
Chromium, mg/kg dw	1.3	2.1	1.8	2.1	4.9
Lead, mg/kg dw	0.54	4.0	0.60	1.1	4.0
Selenium, mg/kg dw	<0.93	<1.1	<0.88	<1.0	<0.81
Silver, mg/kg dw	<0.96	<0.96	<1.2	<0.95	<0.96
Mercury, mg/kg dw	<0.022	0.036	0.029	0.24	0.041

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0844-33	NS-AS11-02	Client
0844-34	NS-AS12-01	
0844-35	NS-AS12-02	
0844-36	NS-AS13-01	
0844-37	NS-AS13-02	

PARAMETER	0844-33	0844-34	0844-35	0844-36	0844-37
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<100	<50	<50	<2500	<2500
2,4-DB, ug/kg dw	<100	<50	<50	<2500	<2500
2,4,5-T, ug/kg dw	<60	<30	<30	<1500	<1500
2,4,5-TP Silvex, ug/kg dw	<20	<10	<10	<500	<500
Dalapon, ug/kg dw	<2000	<1000	<1000	<50000	<50000
Dicamba, ug/kg dw	<20	<10	<10	<500	<500
Dichlorprop, ug/kg dw	<100	<50	<50	<2500	<2500
Dinoseb, ug/kg dw	<100	<50	<50	<2500	<2500
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<2000	<1000	<1000	<50000	<50000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<2000	<1000	<1000	<50000	<50000

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0844-33	NS-AS11-02	Client
0844-34	NS-AS12-01	
0844-35	NS-AS12-02	
0844-36	NS-AS13-01	
0844-37	NS-AS13-02	

PARAMETER	0844-33	0844-34	0844-35	0844-36	0844-37
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<1000	<500	<20	<1000	<50
alpha-BHC, ug/kg dw	<1000	<5000	<20	<1000	<50
beta-BHC, ug/kg dw	<1000	<5000	<20	<1000	<50
gamma-BHC, ug/kg dw	<1000	<5000	<20	<1000	<50
delta-BHC, ug/kg dw	<1000	<5000	<20	<1000	<50
Chlordane, ug/kg dw	<10000	<50000	<200	<10000	<500
4,4'-DDD, ug/kg dw	<2000	<10000	<40	<2000	<100
4,4'-DDE, ug/kg dw	<2000	<10000	<40	<2000	<100
4,4'-DDT, ug/kg dw	<5000	<25000	<100	<5000	<250
Dieldrin, ug/kg dw	<2000	<10000	<40	<2000	<100
Endosulfan I, ug/kg dw	<2000	<10000	<40	<2000	<100
Endosulfan II, ug/kg dw	<5000	<25000	<100	<5000	<250
Endosulfan sulfate, ug/kg dw	<8000	<40000	<160	<8000	<400
Endrin, ug/kg dw	<2000	<10000	<40	<2000	<100
Endrin Aldehyde, ug/kg dw	<10000	<50000	<200	<10000	<500
Heptachlor, ug/kg dw	<1000	<5000	<20	<1000	<50
Heptachlor epoxide, ug/kg dw	<2000	<10000	<40	<2000	<100
Kepone, ug/kg dw	<5000	<25000	<200	<5000	<250

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0844-33	NS-AS11-02	Client
0844-34	NS-AS12-01	
0844-35	NS-AS12-02	
0844-36	NS-AS13-01	
0844-37	NS-AS13-02	

PARAMETER	0844-33	0844-34	0844-35	0844-36	0844-37
Methoxychlor, ug/kg dw	<40000	<200000	<800	<40000	<2000
Toxaphene, ug/kg dw	280000	2600000	9200	450000	11000
Aroclor-1016, ug/kg dw	<40000	<200000	<800	<40000	<2000
Aroclor-1221, ug/kg dw	<40000	<200000	<800	<40000	<2000
Aroclor-1232, ug/kg dw	<40000	<200000	<800	<40000	<2000
Aroclor-1242, ug/kg dw	<40000	<200000	<800	<40000	<2000
Aroclor-1248, ug/kg dw	<40000	<200000	<800	<40000	<2000
Aroclor-1254, ug/kg dw	<40000	<200000	<800	<40000	<2000
Aroclor-1260, ug/kg dw	<40000	<200000	<800	<40000	<2000

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0844-34	NS-AS12-01	
0844-35	NS-AS12-02	
0844-36	NS-AS13-01	
0844-37	NS-AS13-02	

PARAMETER	0844-33	0844-34	0844-35	0844-36	0844-37
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<20	<20	<20	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-33	NS-AS11-02	Client
0844-34	NS-AS12-01	
0844-35	NS-AS12-02	
0844-36	NS-AS13-01	
0844-37	NS-AS13-02	

PARAMETER	0844-33	0844-34	0844-35	0844-36	0844-37
Primary metals					
Arsenic, mg/kg dw	3.3	2.5	<0.85	1.7	<1.0
Barium, mg/kg dw	110	11	5.6	10	3.7
Cadmium, mg/kg dw	<0.25	<0.24	<0.24	0.26	<0.24
Chromium, mg/kg dw	13	6.1	1.8	6.3	0.98
Lead, mg/kg dw	1.5	4.0	0.80	6.4	0.83
Selenium, mg/kg dw	<1.1	<0.81	<0.85	<0.97	<1.0
Silver, mg/kg dw	<1.0	<0.96	<0.97	<0.97	<0.97
Mercury, mg/kg dw	0.031	0.032	0.041	0.036	0.031

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0844-38	NS-AS14-01	Client
0844-39	NS-AS14-02	
0844-40	NS-AS15-01	
0844-41	NS-AS15-02	
0844-42	NS-AS16-01	

PARAMETER	0844-38	0844-39	0844-40	0844-41	0844-42
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<50	<50	<1300	<500	<2500
2,4-DB, ug/kg dw	<50	<50	<1300	<500	<2500
2,4,5-T, ug/kg dw	<30	<30	<750	<300	<1500
2,4,5-TP Silvex, ug/kg dw	<10	<10	<250	<100	<500
Dalapon, ug/kg dw	<1000	<1000	<25000	<10000	<50000
Dicamba, ug/kg dw	<10	<10	<250	<100	<500
Dichlorprop, ug/kg dw	<50	<50	<1300	<500	<2500
Dinoseb, ug/kg dw	<50	<50	<1300	<500	<2500
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	<1000	<25000	<10000	<50000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	<1000	<25000	<10000	<50000

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TALLAHASSEE DIVISION

2820 Industrial Plaza Blvd. (32301)
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(904) 878-3994

LOG NO: 89-0844

Received: 24 MAR 89

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-38	NS-AS14-01	Client
0844-39	NS-AS14-02	
0844-40	NS-AS15-01	
0844-41	NS-AS15-02	
0844-42	NS-AS16-01	

PARAMETER	0844-38	0844-39	0844-40	0844-41	0844-42
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<2	<2	<50	<2	<500
alpha-BHC, ug/kg dw	<2	<2	<50	<2	<500
beta-BHC, ug/kg dw	<2	<2	<50	<2	<500
gamma-BHC, ug/kg dw	<2	<2	<50	<2	<500
delta-BHC, ug/kg dw	<2	<2	<50	<2	<500
Chlordane, ug/kg dw	<20	<20	<500	<20	<5000
4,4'-DDD, ug/kg dw	<4	<4	<100	<4	<1000
4,4'-DDE, ug/kg dw	<4	<4	<100	<4	<1000
4,4'-DDT, ug/kg dw	<10	<10	<250	<10	<2500
Dieldrin, ug/kg dw	<4	<4	<100	<4	<1000
Endosulfan I, ug/kg dw	<4	<4	<100	<4	<1000
Endosulfan II, ug/kg dw	<10	<10	<250	<10	<2500
Endosulfan sulfate, ug/kg dw	<16	<16	<400	<16	<4000
Endrin, ug/kg dw	<4	<4	<100	<4	<1000
Endrin Aldehyde, ug/kg dw	<20	<20	<500	<20	<5000
Heptachlor, ug/kg dw	<2	<2	<50	<2	<500
Heptachlor epoxide, ug/kg dw	<4	<4	<100	<4	<1000
Kepone, ug/kg dw	<10	<10	<250	<10	<2500

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0844-39	NS-AS14-02	
0844-40	NS-AS15-01	
0844-41	NS-AS15-02	
0844-42	NS-AS16-01	

PARAMETER	0844-38	0844-39	0844-40	0844-41	0844-42
Methoxychlor, ug/kg dw	<80	<80	<2000	<80	<20000
Toxaphene, ug/kg dw	1300	<160	14000	1000	130000
Aroclor-1016, ug/kg dw	<80	<80	<2000	<80	<20000
Aroclor-1221, ug/kg dw	<80	<80	<2000	<80	<20000
Aroclor-1232, ug/kg dw	<80	<80	<2000	<80	<20000
Aroclor-1242, ug/kg dw	<80	<80	<2000	<80	<20000
Aroclor-1248, ug/kg dw	<80	<80	<2000	<80	<20000
Aroclor-1254, ug/kg dw	<80	<80	<2000	<80	<20000
Aroclor-1260, ug/kg dw	<80	<80	<2000	<80	<20000

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0844-39	NS-AS14-02	
0844-40	NS-AS15-01	
0844-41	NS-AS15-02	
0844-42	NS-AS16-01	

PARAMETER	0844-38	0844-39	0844-40	0844-41	0844-42
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<20	<20	<20	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-39	NS-AS14-02	
0844-40	NS-AS15-01	
0844-41	NS-AS15-02	
0844-42	NS-AS16-01	

PARAMETER	0844-38	0844-39	0844-40	0844-41	0844-42
Primary metals					
Arsenic, mg/kg dw	7.5	2.3	4.2	1.4	2.6
Barium, mg/kg dw	13	6.4	8.8	5.0	9.2
Cadmium, mg/kg dw	<0.24	<0.24	<0.24	<0.25	<0.25
Chromium, mg/kg dw	4.5	1.9	3.4	1.5	3.1
Lead, mg/kg dw	6.0	0.77	94	6.6	4.2
Selenium, mg/kg dw	<0.92	<0.90	<0.97	<0.93	3.2
Silver, mg/kg dw	<0.96	<0.95	<0.95	<0.98	<0.98
Mercury, mg/kg dw	<0.026	<0.025	<0.025	<0.026	<0.025

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-43	NS-AS16-02	Client
0844-44	NS-AS17-01	
0844-45	NS-AS17-02	
0844-46	NS-AS18-01	
0844-47	NS-AS18-02	

PARAMETER	0844-43	0844-44	0844-45	0844-46	0844-47
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<500	<1300	<500	<5000	<500
2,4-DB, ug/kg dw	<500	<1300	<500	<5000	<500
2,4,5-T, ug/kg dw	<300	<750	<300	<3000	<300
2,4,5-TP Silvex, ug/kg dw	<100	<250	<100	<1000	<100
Dalapon, ug/kg dw	<10000	<25000	<10000	<100000	<10000
Dicamba, ug/kg dw	<100	<250	<100	<1000	<100
Dichlorprop, ug/kg dw	<500	<1300	<500	<5000	<500
Dinoseb, ug/kg dw	<500	<1300	<500	<5000	<500
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<10000	<25000	<10000	<100000	<10000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<10000	<25000	<10000	<100000	<10000

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0844-44	NS-AS17-01	
0844-45	NS-AS17-02	
0844-46	NS-AS18-01	
0844-47	NS-AS18-02	

PARAMETER	0844-43	0844-44	0844-45	0844-46	0844-47
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<50	<50	<2	<1000	<2
alpha-BHC, ug/kg dw	<50	<50	<2	<1000	<2
beta-BHC, ug/kg dw	<50	<50	<2	<1000	<2
gamma-BHC, ug/kg dw	<50	<50	<2	<1000	<2
delta-BHC, ug/kg dw	<50	<50	<2	<1000	<2
Chlordane, ug/kg dw	<500	<500	<20	<10000	<20
4,4'-DDD, ug/kg dw	<100	<100	<4	<2000	<4
4,4'-DDE, ug/kg dw	<100	<100	<4	<2000	<4
4,4'-DDT, ug/kg dw	<250	<250	<10	<5000	<10
Dieldrin, ug/kg dw	<100	<100	<4	<2000	<4
Endosulfan I, ug/kg dw	<100	<100	<4	<2000	<4
Endosulfan II, ug/kg dw	<250	<250	<10	<5000	<10
Endosulfan sulfate, ug/kg dw	<400	<400	<16	<8000	<16
Endrin, ug/kg dw	<100	<100	<4	<2000	<4
Endrin Aldehyde, ug/kg dw	<500	<500	<20	<10000	<20
Heptachlor, ug/kg dw	<50	<50	<2	<1000	<2
Heptachlor epoxide, ug/kg dw	<100	<100	<4	<2000	<4
Kepone, ug/kg dw	<250	<250	<20	<10000	<20

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0844-44	NS-AS17-01	
0844-45	NS-AS17-02	
0844-46	NS-AS18-01	
0844-47	NS-AS18-02	

PARAMETER	0844-43	0844-44	0844-45	0844-46	0844-47
Methoxychlor, ug/kg dw	<2000	<2000	<80	<40000	<80
Toxaphene, ug/kg dw	14000	16000	<160	450000	<160
Aroclor-1016, ug/kg dw	<2000	<2000	<80	<40000	<80
Aroclor-1221, ug/kg dw	<2000	<2000	<80	<40000	<80
Aroclor-1232, ug/kg dw	<2000	<2000	<80	<40000	<80
Aroclor-1242, ug/kg dw	<2000	<2000	<80	<40000	<80
Aroclor-1248, ug/kg dw	<2000	<2000	<80	<40000	<80
Aroclor-1254, ug/kg dw	<2000	<2000	<80	<40000	<80
Aroclor-1260, ug/kg dw	<2000	<2000	<80	<40000	<80

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0844-44	NS-AS17-01	
0844-45	NS-AS17-02	
0844-46	NS-AS18-01	
0844-47	NS-AS18-02	

PARAMETER	0844-43	0844-44	0844-45	0844-46	0844-47
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<20	<20	<200	<200	<200
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-44	NS-AS17-01	
0844-45	NS-AS17-02	
0844-46	NS-AS18-01	
0844-47	NS-AS18-02	

PARAMETER	0844-43	0844-44	0844-45	0844-46	0844-47
Primary metals					
Arsenic, mg/kg dw	<0.94	3.2	<1.0	<0.90	13
Barium, mg/kg dw	3.7	9.9	72	17	50
Cadmium, mg/kg dw	<0.24	<0.25	<0.25	<0.25	<0.28
Chromium, mg/kg dw	1.2	3.2	15	9.3	51
Lead, mg/kg dw	0.58	3.3	15	0.71	11
Selenium, mg/kg dw	<0.94	<0.93	<1.0	<0.90	<1.1
Silver, mg/kg dw	<0.95	<0.99	<1.0	<1.0	<1.1
Mercury, mg/kg dw	<0.027	<0.026	0.034	<0.025	<0.026

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-48	NS-AS19-01	Client
0844-49	NS-AS19-02	
0844-50	NS-AS21-01	
0844-51	NS-AS21-02	
0844-52	NS-AS24-01	

PARAMETER	0844-48	0844-49	0844-50	0844-51	0844-52
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<250	<50	<50	<500	<5000
2,4-DB, ug/kg dw	<250	<50	<50	<500	<5000
2,4,5-T, ug/kg dw	<150	<30	<30	<300	<3000
2,4,5-TP Silvex, ug/kg dw	<50	<10	<10	<100	<1000
Dalapon, ug/kg dw	<5000	<1000	<1000	<10000	<100000
Dicamba, ug/kg dw	<50	<10	<10	<100	<1000
Dichlorprop, ug/kg dw	<250	<50	<50	<500	<5000
Dinoseb, ug/kg dw	<250	<50	<50	<500	<5000
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<5000	<1000	<1000	<10000	<100000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<5000	<1000	<1000	<10000	<100000

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0844-49	NS-AS19-02	
0844-50	NS-AS21-01	
0844-51	NS-AS21-02	
0844-52	NS-AS24-01	

PARAMETER	0844-48	0844-49	0844-50	0844-51	0844-52
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<10	<2	<20	<2	<10000
alpha-BHC, ug/kg dw	<10	<2	<20	<2	<10000
beta-BHC, ug/kg dw	<10	<2	<20	<2	<10000
gamma-BHC, ug/kg dw	<10	<2	<20	<2	<10000
delta-BHC, ug/kg dw	<10	<2	<20	<2	<10000
Chlordane, ug/kg dw	<100	<20	<200	<20	<100000
4,4'-DDD, ug/kg dw	<20	<4	<40	<4	<20000
4,4'-DDE, ug/kg dw	<20	<4	<40	<4	<20000
4,4'-DDT, ug/kg dw	<50	<10	<100	<10	<50000
Dieldrin, ug/kg dw	<20	<4	<40	<4	<20000
Endosulfan I, ug/kg dw	<20	<4	<40	<4	<20000
Endosulfan II, ug/kg dw	<50	<10	<100	<10	<50000
Endosulfan sulfate, ug/kg dw	<80	<16	<160	<16	<80000
Endrin, ug/kg dw	<20	<4	<40	<4	<20000
Endrin Aldehyde, ug/kg dw	<100	<20	<200	<20	<100000
Heptachlor, ug/kg dw	<10	<2	<20	<2	<10000
Heptachlor epoxide, ug/kg dw	<20	<4	<40	<4	<20000
Kepone, ug/kg dw	<100	<20	<200	<20	<100000

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0844-49	NS-AS19-02	
0844-50	NS-AS21-01	
0844-51	NS-AS21-02	
0844-52	NS-AS24-01	

PARAMETER	0844-48	0844-49	0844-50	0844-51	0844-52
Methoxychlor, ug/kg dw	<400	<80	<800	<80	<400000
Toxaphene, ug/kg dw	3800	<160	9200	480	2900000
Aroclor-1016, ug/kg dw	<400	<80	<800	<80	<400000
Aroclor-1221, ug/kg dw	<400	<80	<800	<80	<400000
Aroclor-1232, ug/kg dw	<400	<80	<800	<80	<400000
Aroclor-1242, ug/kg dw	<400	<80	<800	<80	<400000
Aroclor-1248, ug/kg dw	<400	<80	<800	<80	<400000
Aroclor-1254, ug/kg dw	<400	<80	<800	<80	<400000
Aroclor-1260, ug/kg dw	<400	<80	<800	<80	<400000

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LOG NO: 89-0844

Received: 24 MAR 89

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-48	NS-AS19-01	Client
0844-49	NS-AS19-02	
0844-50	NS-AS21-01	
0844-51	NS-AS21-02	
0844-52	NS-AS24-01	

PARAMETER	0844-48	0844-49	0844-50	0844-51	0844-52
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<200	<200	<200	<200	<200
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-48	NS-AS19-01	Client
0844-49	NS-AS19-02	
0844-50	NS-AS21-01	
0844-51	NS-AS21-02	
0844-52	NS-AS24-01	

PARAMETER	0844-48	0844-49	0844-50	0844-51	0844-52
Primary metals					
Arsenic, mg/kg dw	2.1	4.4	2.5	0.95	2.2
Barium, mg/kg dw	3.5	7.6	7.2	4.3	18
Cadmium, mg/kg dw	<0.25	<0.23	<0.25	<0.25	0.61
Chromium, mg/kg dw	1.8	2.5	2.6	1.6	19
Lead, mg/kg dw	6.6	8.4	5.0	1.3	8.6
Selenium, mg/kg dw	<0.95	<0.97	<0.93	<0.95	<0.98
Silver, mg/kg dw	<0.98	<0.90	<0.98	<1.0	<1.0
Mercury, mg/kg dw	<0.024	<0.022	<0.027	<0.024	0.039

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0844-2	NS-AS20-02	
0844-3	NS-AS22-01	
0844-4	NS-AS22-02	
0844-5	NS-AS23-01	

PARAMETER	0844-1	0844-2	0844-3	0844-4	0844-5
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<250	<100	<250	<50	<250
2,4-DB, ug/kg dw	<250	<100	<250	<50	<250
2,4,5-T, ug/kg dw	<150	<60	<150	<30	<150
2,4,5-TP Silvex, ug/kg dw	<50	<20	<50	<10	<50
Dalapon, ug/kg dw	<5000	<2000	<5000	<1000	<5000
Dicamba, ug/kg dw	<50	<20	<50	<10	<50
Dichlorprop, ug/kg dw	<250	<100	<250	<50	<250
Dinoseb, ug/kg dw	<250	<100	<250	<50	<250
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<5000	<2000	<5000	<1000	<5000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<5000	<2000	<5000	<1000	<5000

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0844-2	NS-AS20-02	
0844-3	NS-AS22-01	
0844-4	NS-AS22-02	
0844-5	NS-AS23-01	

PARAMETER	0844-1	0844-2	0844-3	0844-4	0844-5
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<5000	<5	<1000	<5	<1000
alpha-BHC, ug/kg dw	<5000	<5	<1000	<5	<1000
beta-BHC, ug/kg dw	<5000	<5	<1000	<5	<1000
gamma-BHC, ug/kg dw	<5000	<5	<1000	<5	<1000
delta-BHC, ug/kg dw	<5000	<5	<1000	<5	<1000
Chlordane, ug/kg dw	<50000	<50	<10000	<50	<10000
4,4'-DDD, ug/kg dw	<10000	<10	<2000	<10	<2000
4,4'-DDE, ug/kg dw	<10000	<10	<2000	<10	<2000
4,4'-DDT, ug/kg dw	<25000	<25	<5000	<25	<5000
Dieldrin, ug/kg dw	<10000	<10	<2000	<10	<2000
Endosulfan I, ug/kg dw	<10000	<10	<2000	<10	<2000
Endosulfan II, ug/kg dw	<25000	<25	<5000	<25	<5000
Endosulfan sulfate, ug/kg dw	<40000	<40	<8000	<40	<8000
Endrin, ug/kg dw	<10000	<10	<2000	<10	<2000
Endrin Aldehyde, ug/kg dw	<50000	<50	<10000	<50	<10000
Heptachlor, ug/kg dw	<5000	<5	<1000	<5	<1000
Heptachlor epoxide, ug/kg dw	<10000	<10	<2000	<10	<2000
Kepone, ug/kg dw	<25000	<25	<5000	<25	<5000

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0844-2	NS-AS20-02	
0844-3	NS-AS22-01	
0844-4	NS-AS22-02	
0844-5	NS-AS23-01	

PARAMETER	0844-1	0844-2	0844-3	0844-4	0844-5
Methoxychlor, ug/kg dw	<200000	<200	<40000	<200	<40000
Toxaphene, ug/kg dw	1200000	1200	250000	1800	507000
Aroclor-1016, ug/kg dw	<200000	<200	<40000	<200	<40000
Aroclor-1221, ug/kg dw	<200000	<200	<40000	<200	<40000
Aroclor-1232, ug/kg dw	<200000	<200	<40000	<200	<40000
Aroclor-1242, ug/kg dw	<200000	<200	<40000	<200	<40000
Aroclor-1248, ug/kg dw	<200000	<200	<40000	<200	<40000
Aroclor-1254, ug/kg dw	<200000	<200	<40000	<200	<40000
Aroclor-1260, ug/kg dw	<200000	<200	<40000	<200	<40000

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0844-2	NS-AS20-02	
0844-3	NS-AS22-01	
0844-4	NS-AS22-02	
0844-5	NS-AS23-01	

PARAMETER	0844-1	0844-2	0844-3	0844-4	0844-5
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<20	<20	<20	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-2	NS-AS20-02	
0844-3	NS-AS22-01	
0844-4	NS-AS22-02	
0844-5	NS-AS23-01	

PARAMETER	0844-1	0844-2	0844-3	0844-4	0844-5
Volatile Organic Compounds					
Chloromethane, ug/kg dw	<10	<10	<10	<10	<10
Bromomethane, ug/kg dw	<10	<10	<10	<10	<10
Vinyl Chloride, ug/kg dw	<10	<10	<10	<10	<10
Chloroethane, ug/kg dw	<10	<10	<10	<10	<10
Methylene Chloride, ug/kg dw	<5	<5	<5	<5	<5
Acetone, ug/kg dw	<100	<100	<100	<100	<100
Carbon Disulfide, ug/kg dw	<5	<5	<5	<5	<5
1,1-Dichloroethylene, ug/kg dw	<5	<5	<5	<5	<5
1,1-Dichloroethane, ug/kg dw	<5	<5	<5	<5	<5
cis/trans-1,2-Dichloroethyl ene, ug/kg dw	<5	<5	<5	<5	<5
Chloroform, ug/kg dw	<5	<5	<5	<5	<5
1,2-Dichloroethane, ug/kg dw	<5	<5	<5	<5	<5
2-Butanone, ug/kg dw	<100	<100	<100	<100	<100
1,1,1-Trichloroethane, ug/kg dw	<5	<5	<5	<5	<5
Carbon Tetrachloride, ug/kg dw	<5	<5	<5	<5	<5
Vinyl Acetate, ug/kg dw	<50	<50	<50	<50	<50
Bromodichloromethane, ug/kg dw	<5	<5	<5	<5	<5

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0844-2	NS-AS20-02	
0844-3	NS-AS22-01	
0844-4	NS-AS22-02	
0844-5	NS-AS23-01	

PARAMETER	0844-1	0844-2	0844-3	0844-4	0844-5
1,1,2,2-Tetrachloroethane, ug/kg dw	<5	<5	<5	<5	<5
1,2-Dichloropropane, ug/kg dw	<5	<5	<5	<5	<5
Trans-1,3-Dichloropropene, ug/kg dw	<5	<5	<5	<5	<5
Trichloroethylene, ug/kg dw	<5	<5	<5	<5	<5
Dibromochloromethane, ug/kg dw	<5	<5	<5	<5	<5
1,1,2-Trichloroethane, ug/kg dw	<5	<5	<5	<5	<5
Benzene, ug/kg dw	<5	<5	<5	<5	<5
Cis-1,3-Dichloropropene, ug/kg dw	<5	<5	<5	<5	<5
2-Chloroethylvinyl Ether, ug/kg dw	<10	<10	<10	<10	<10
Bromoform, ug/kg dw	<5	<5	<5	<5	<5
2-Hexanone, ug/kg dw	<50	<50	<50	<50	<50
4-methyl-2-pentanone, ug/kg dw	<50	<50	<50	<50	<50
Tetrachloroethylene, ug/kg dw	<5	<5	<5	<5	<5
Toluene, ug/kg dw	<5	<5	15	<5	7.5
Chlorobenzene, ug/kg dw	<5	<5	<5	<5	<5
Ethylbenzene, ug/kg dw	<5	<5	<5	<5	<5
Styrene, ug/kg dw	<5	<5	<5	<5	<5
Xylenes, ug/kg dw	<5	<5	<5	<5	<5

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0844-2	NS-AS20-02	
0844-3	NS-AS22-01	
0844-4	NS-AS22-02	
0844-5	NS-AS23-01	

PARAMETER	0844-1	0844-2	0844-3	0844-4	0844-5
Primary metals					
Arsenic, mg/kg dw	2.6	<0.82	2.7	<0.90	2.0
Barium, mg/kg dw	8.0	3.2	11	5.0	13
Cadmium, mg/kg dw	0.29	<0.25	2.0	<0.25	2.5
Chromium, mg/kg dw	3.0	1.1	29	2.0	26
Lead, mg/kg dw	24	0.93	16	0.77	17
Selenium, mg/kg dw	<0.87	<0.82	<0.90	<0.90	<0.91
Silver, mg/kg dw	<0.96	<1.0	<0.94	<1.0	<0.99
Mercury, mg/kg dw	<0.025	<0.024	<0.026	<0.026	<0.026

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-6	NS-AS25-01	Client
0844-7	NS-AS25-02	
0844-8	NS-LF02-01	
0844-9	NS-LF02-02	
0844-10	NS-LF04-01	

PARAMETER	0844-6	0844-7	0844-8	0844-9	0844-10
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<50	<50	<50	<50	<50
2,4-DB, ug/kg dw	<50	<50	<50	<50	<50
2,4,5-T, ug/kg dw	<30	<30	<30	<30	<30
2,4,5-TP Silvex, ug/kg dw	<10	<10	<10	<10	<10
Dalapon, ug/kg dw	<1000	<1000	<1000	<1000	<1000
Dicamba, ug/kg dw	<10	<10	<10	<10	<10
Dichlorprop, ug/kg dw	<50	<50	<50	<50	<50
Dinoseb, ug/kg dw	<50	<50	<50	<50	<50
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	<1000	<1000	<1000	<1000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	<1000	<1000	<1000	<1000

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0844-7	NS-AS25-02	
0844-8	NS-LF02-01	
0844-9	NS-LF02-02	
0844-10	NS-LF04-01	

PARAMETER	0844-6	0844-7	0844-8	0844-9	0844-10
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<2	<2	<2	<2	<100
alpha-BHC, ug/kg dw	<2	<2	<2	<2	<100
beta-BHC, ug/kg dw	<2	<2	<2	<2	<100
gamma-BHC, ug/kg dw	<2	<2	<2	<2	<100
delta-BHC, ug/kg dw	<2	<2	<2	<2	<100
Chlordane, ug/kg dw	<20	<20	<20	<20	<1000
4,4'-DDD, ug/kg dw	<4	<4	<4	<4	<200
4,4'-DDE, ug/kg dw	16	<4	<4	<4	<200
4,4'-DDT, ug/kg dw	18	<10	<10	<10	<500
Dieldrin, ug/kg dw	<4	<4	<4	<4	<200
Endosulfan I, ug/kg dw	<4	<4	<4	<4	<200
Endosulfan II, ug/kg dw	<10	<10	<10	<10	<500
Endosulfan sulfate, ug/kg dw	<16	<16	<16	<16	<800
Endrin, ug/kg dw	<4	<4	<4	<4	<200
Endrin Aldehyde, ug/kg dw	<20	<20	<20	<20	<1000
Heptachlor, ug/kg dw	<2	<2	<2	<2	<100
Heptachlor epoxide, ug/kg dw	<4	<4	<4	<4	<200
Kepone, ug/kg dw	<10	<10	<10	<10	<500

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LOG NO: 89-0844

Received: 24 MAR 89

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-6	NS-AS25-01	Client
0844-7	NS-AS25-02	
0844-8	NS-LF02-01	
0844-9	NS-LF02-02	
0844-10	NS-LF04-01	

PARAMETER	0844-6	0844-7	0844-8	0844-9	0844-10
Methoxychlor, ug/kg dw	<80	<80	<80	<80	<4000
Toxaphene, ug/kg dw	<160	<160	<160	<160	17000
Aroclor-1016, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1221, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1232, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1242, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1248, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1254, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1260, ug/kg dw	<80	<80	<80	<80	<4000

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0844-9	NS-LF02-02	
0844-10	NS-LF04-01	

PARAMETER	0844-6	0844-7	0844-8	0844-9	0844-10
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<2	<20	<20	<20
Demeton-S, ug/kg dw	<20	<20	<20	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-7	NS-AS25-02	
0844-8	NS-LF02-01	
0844-9	NS-LF02-02	
0844-10	NS-LF04-01	

PARAMETER	0844-6	0844-7	0844-8	0844-9	0844-10
Volatile Organic Compounds					
Chloromethane, ug/kg dw	<10	<10	<10	<10	<10
Bromomethane, ug/kg dw	<10	<10	<10	<10	<10
Vinyl Chloride, ug/kg dw	<10	<10	<10	<10	<10
Chloroethane, ug/kg dw	<10	<10	<10	<10	<10
Methylene Chloride, ug/kg dw	<5	<5	<5	<5	<5
Acetone, ug/kg dw	<100	<100	<100	<100	<100
Carbon Disulfide, ug/kg dw	<5	<5	<5	<5	<5
1,1-Dichloroethylene, ug/kg dw	<5	<5	<5	<5	<5
1,1-Dichloroethane, ug/kg dw	<5	<5	<5	<5	<5
cis/trans-1,2-Dichloroethyl ene, ug/kg dw	<5	<5	<5	<5	<5
Chloroform, ug/kg dw	<5	<5	<5	<5	<5
1,2-Dichloroethane, ug/kg dw	<5	<5	<5	<5	<5
2-Butanone, ug/kg dw	<100	<100	<100	<100	<100
1,1,1-Trichloroethane, ug/kg dw	<5	<5	<5	<5	<5
Carbon Tetrachloride, ug/kg dw	<5	<5	<5	<5	<5
Vinyl Acetate, ug/kg dw	<50	<50	<50	<50	<50
Bromodichloromethane, ug/kg dw	<5	<5	<5	<5	<5

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0844-8	NS-LF02-01	
0844-9	NS-LF02-02	
0844-10	NS-LF04-01	

PARAMETER	0844-6	0844-7	0844-8	0844-9	0844-10
1,1,2,2-Tetrachloroethane, ug/kg dw	<5	<5	<5	<5	<5
1,2-Dichloropropane, ug/kg dw	<5	<5	<5	<5	<5
Trans-1,3-Dichloropropene, ug/kg dw	<5	<5	<5	<5	<5
Trichloroethylene, ug/kg dw	<5	<5	<5	<5	<5
Dibromochloromethane, ug/kg dw	<5	<5	<5	<5	<5
1,1,2-Trichloroethane, ug/kg dw	<5	<5	<5	<5	<5
Benzene, ug/kg dw	<5	<5	<5	<5	<5
Cis-1,3-Dichloropropene, ug/kg dw	<5	<5	<5	<5	<5
2-Chloroethylvinyl Ether, ug/kg dw	<10	<10	<10	<10	<10
Bromoform, ug/kg dw	<5	<5	<5	<5	<5
2-Hexanone, ug/kg dw	<50	<50	<50	<50	<50
4-methyl-2-pentanone, ug/kg dw	<50	<50	<50	<50	<50
Tetrachloroethylene, ug/kg dw	<5	<5	<5	<5	<5
Toluene, ug/kg dw	<5	<5	<5	<5	<5
Chlorobenzene, ug/kg dw	<5	<5	<5	<5	<5
Ethylbenzene, ug/kg dw	<5	<5	<5	<5	<5
Styrene, ug/kg dw	<5	<5	<5	<5	<5
Xylenes, ug/kg dw	<5	<5	<5	<5	<5

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0844-7	NS-AS25-02	
0844-8	NS-LF02-01	
0844-9	NS-LF02-02	
0844-10	NS-LF04-01	

PARAMETER	0844-6	0844-7	0844-8	0844-9	0844-10
Primary metals					
Arsenic, mg/kg dw	2.2	1.5	6.3	5.3	7.2
Barium, mg/kg dw	8.9	6.0	66	140	24
Cadmium, mg/kg dw	<0.24	<0.24	0.38	<0.23	<0.25
Chromium, mg/kg dw	1.7	1.6	10	18	6.9
Lead, mg/kg dw	1.8	0.65	8.0	12	7.0
Selenium, mg/kg dw	<0.87	2.2	<0.96	<0.97	<0.88
Silver, mg/kg dw	<0.98	<0.96	<0.99	<0.92	<1.0
Mercury, mg/kg dw	<0.024	5	6	8	<0.026

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-11	NS-LF04-02	Client
0844-12	NS-LF06-01	

PARAMETER	0844-11	0844-12
Chlorinated Herbicides (8150)		
2,4-D, ug/kg dw	<50	<50
2,4-DB, ug/kg dw	<50	<50
2,4,5-T, ug/kg dw	<30	<30
2,4,5-TP Silvex, ug/kg dw	<10	<10
Dalapon, ug/kg dw	<1000	<1000
Dicamba, ug/kg dw	<10	<10
Dichlorprop, ug/kg dw	<50	<50
Dinoseb, ug/kg dw	<50	<50
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	<1000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	<1000

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0844-11	NS-LF04-02	Client
0844-12	NS-LF06-01	

PARAMETER	0844-11	0844-12	
Cl-Pesticides/PCB (8080)			
Aldrin, ug/kg dw	<2	<2	
alpha-BHC, ug/kg dw	<2	<2	
beta-BHC, ug/kg dw	<2	<2	
gamma-BHC, ug/kg dw	<2	<2	
delta-BHC, ug/kg dw	<2	<2	
Chlordane, ug/kg dw	<20	<20	
4,4'-DDD, ug/kg dw	<4	<4	
4,4'-DDE, ug/kg dw	<4	<4	
4,4'-DDT, ug/kg dw	<10	<10	
Dieldrin, ug/kg dw	<4	<4	
Endosulfan I, ug/kg dw	<4	<4	
Endosulfan II, ug/kg dw	<10	<10	
Endosulfan sulfate, ug/kg dw	<16	<16	
Endrin, ug/kg dw	<4	<4	
Endrin Aldehyde, ug/kg dw	<20	<20	
Heptachlor, ug/kg dw	<2	<2	
Heptachlor epoxide, ug/kg dw	<4	<4	
Kepone, ug/kg dw	<10	<10	
Methoxychlor, ug/kg dw	<80	<80	
Toxaphene, ug/kg dw	<160	840	
Aroclor-1016, ug/kg dw	<80	<80	

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0844-12	NS-LF06-01	

PARAMETER	0844-11	0844-12
Aroclor-1221, ug/kg dw	<80	<80
Aroclor-1232, ug/kg dw	<80	<80
Aroclor-1242, ug/kg dw	<80	<80
Aroclor-1248, ug/kg dw	<80	<80
Aroclor-1254, ug/kg dw	<80	<80
Aroclor-1260, ug/kg dw	<80	<80

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0844-11	NS-LF04-02	Client
0844-12	NS-LF06-01	

PARAMETER	0844-11	0844-12
Organophosphorus Pesticides		
Azinphos methyl, ug/kg dw	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2
Coumaphos, ug/kg dw	<100	<100
Demeton-O, ug/kg dw	<20	<20
Demeton-S, ug/kg dw	<20	<20
Diazinon, ug/kg dw	<10	<10
Dichlorvos, ug/kg dw	<20	<20
Disulfoton, ug/kg dw	<10	<10
Ethoprop, ug/kg dw	<2	<2
Fensulfothion, ug/kg dw	<100	<100
Fenthion, ug/kg dw	<2	<2
Merphos, ug/kg dw	<10	<10
Mevinphos, ug/kg dw	<2	<2
Naled, ug/kg dw	<20	<20
Methyl Parathion, ug/kg dw	<10	<10
Phorate, ug/kg dw	<2	<2
Ronnel, ug/kg dw	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10

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0844-11	NS-LF04-02	Client
0844-12	NS-LF06-01	

PARAMETER	0844-11	0844-12
Volatile Organic Compounds		
Chloromethane, ug/kg dw	<10	<10
Bromomethane, ug/kg dw	<10	<10
Vinyl Chloride, ug/kg dw	<10	<10
Chloroethane, ug/kg dw	<10	<10
Methylene Chloride, ug/kg dw	<5	<5
Acetone, ug/kg dw	<100	<100
Carbon Disulfide, ug/kg dw	<5	<5
1,1-Dichloroethylene, ug/kg dw	<5	<5
1,1-Dichloroethane, ug/kg dw	<5	<5
cis/trans-1,2-Dichloroethylene, ug/kg dw	<5	<5
Chloroform, ug/kg dw	<5	<5
1,2-Dichloroethane, ug/kg dw	<5	<5
2-Butanone, ug/kg dw	<100	<100
1,1,1-Trichloroethane, ug/kg dw	<5	<5
Carbon Tetrachloride, ug/kg dw	<5	<5
Vinyl Acetate, ug/kg dw	<50	<50
Bromodichloromethane, ug/kg dw	<5	<5
1,1,2,2-Tetrachloroethane, ug/kg dw	<5	<5
1,2-Dichloropropane, ug/kg dw	<5	<5
Trans-1,3-Dichloropropene, ug/kg dw	<5	<5
Trichloroethylene, ug/kg dw	<5	<5

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0844-12	NS-LF06-01	

PARAMETER	0844-11	0844-12
Dibromochloromethane, ug/kg dw	<5	<5
1,1,2-Trichloroethane, ug/kg dw	<5	<5
Benzene, ug/kg dw	<5	<5
Cis-1,3-Dichloropropene, ug/kg dw	<5	<5
2-Chloroethylvinyl Ether, ug/kg dw	<10	<10
Bromoform, ug/kg dw	<5	<5
2-Hexanone, ug/kg dw	<50	<50
4-methyl-2-pentanone, ug/kg dw	<50	<50
Tetrachloroethylene, ug/kg dw	<5	<5
Toluene, ug/kg dw	<5	<5
Chlorobenzene, ug/kg dw	<5	<5
Ethylbenzene, ug/kg dw	<5	<5
Styrene, ug/kg dw	<5	<5
Xylenes, ug/kg dw	<5	<5
Primary metals		
Arsenic, mg/kg dw	17	11
Barium, mg/kg dw	49	45
Cadmium, mg/kg dw	<0.25	<0.25
Chromium, mg/kg dw	15	12
Lead, mg/kg dw	6.7	5.4
Selenium, mg/kg dw	1.0	<0.92
Silver, mg/kg dw	<0.99	<0.99

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0844-11	NS-LF04-02	Client
0844-12	NS-LF06-01	

PARAMETER	0844-11	0844-12
Mercury, mg/kg dw	<0.024	<0.027

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-53	NS-AS24-02	Client
0844-54	NS-LF01-01	
0844-55	NS-LF01-02	
0844-56	NS-LF03-01	
0844-57	NS-LF03-02	

PARAMETER	0844-53	0844-54	0844-55	0844-56	0844-57
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<40	<2	<2	<2	<40
alpha-BHC, ug/kg dw	<40	<2	<2	<2	<40
beta-BHC, ug/kg dw	<40	<2	<2	<2	<40
gamma-BHC, ug/kg dw	<40	<2	<2	<2	<40
delta-BHC, ug/kg dw	<40	<2	<2	<2	<40
Chlordane, ug/kg dw	<400	<20	<20	<20	<400
4,4'-DDD, ug/kg dw	<80	<4	<4	<4	<80
4,4'-DDE, ug/kg dw	<80	<4	<4	<4	<80
4,4'-DDT, ug/kg dw	<200	<10	<10	<10	<200
Dieldrin, ug/kg dw	<80	<4	<4	<4	<80
Endosulfan I, ug/kg dw	<80	<4	<4	<4	<80
Endosulfan II, ug/kg dw	<200	<10	<10	<10	<200
Endosulfan sulfate, ug/kg dw	<320	<16	<16	<16	<320
Endrin, ug/kg dw	<80	<4	<4	<4	<80
Endrin Aldehyde, ug/kg dw	<400	<20	<20	<20	<400
Heptachlor, ug/kg dw	<40	<2	<2	<2	<40
Heptachlor epoxide, ug/kg dw	<80	<4	<4	<4	<80
Kepone, ug/kg dw	<400	<20	<20	<10	<200

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SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

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LOG NO: 89-0844

Received: 24 MAR 89

Mr. Kevin Finder
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Clearwater, Florida 33546

Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-53	NS-AS24-02	Client
0844-54	NS-LF01-01	
0844-55	NS-LF01-02	
0844-56	NS-LF03-01	
0844-57	NS-LF03-02	

PARAMETER	0844-53	0844-54	0844-55	0844-56	0844-57
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<500	<50	<50	<50	<50
2,4-DB, ug/kg dw	<500	<50	<50	<50	<50
2,4,5-T, ug/kg dw	<300	<30	<30	<30	<30
2,4,5-TP Silvex, ug/kg dw	<100	<10	<10	<10	<10
Dalapon, ug/kg dw	<10000	<1000	<1000	<1000	<1000
Dicamba, ug/kg dw	<100	<10	<10	<10	<10
Dichlorprop, ug/kg dw	<500	<50	<50	<50	<50
Dinoseb, ug/kg dw	<500	<50	<50	<50	<50
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<10000	<1000	<1000	<1000	<1000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<10000	<1000	<1000	<1000	<1000

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0844-53	NS-AS24-02	Client
0844-54	NS-LF01-01	
0844-55	NS-LF01-02	
0844-56	NS-LF03-01	
0844-57	NS-LF03-02	

PARAMETER	0844-53	0844-54	0844-55	0844-56	0844-57
Methoxychlor, ug/kg dw	<1600	<80	<80	<80	<1600
Toxaphene, ug/kg dw	14000	<160	<160	<160	11000
Aroclor-1016, ug/kg dw	<1600	<80	<80	<80	<1600
Aroclor-1221, ug/kg dw	<1600	<80	<80	<80	<1600
Aroclor-1232, ug/kg dw	<1600	<80	<80	<80	<1600
Aroclor-1242, ug/kg dw	<1600	<80	<80	<80	<1600
Aroclor-1248, ug/kg dw	<1600	<80	<80	<80	<1600
Aroclor-1254, ug/kg dw	<1600	<80	<80	<80	<1600
Aroclor-1260, ug/kg dw	<1600	<80	<80	<80	<1600

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0844-54	NS-LF01-01	
0844-55	NS-LF01-02	
0844-56	NS-LF03-01	
0844-57	NS-LF03-02	

PARAMETER	0844-53	0844-54	0844-55	0844-56	0844-57
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<200	<200	<200	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	44
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-54	NS-LF01-01	
0844-55	NS-LF01-02	
0844-56	NS-LF03-01	
0844-57	NS-LF03-02	

PARAMETER	0844-53	0844-54	0844-55	0844-56	0844-57
Primary metals					
Arsenic, mg/kg dw	1.6	3.2	8.7	7.7	9.1
Barium, mg/kg dw	4.8	27	49	130	83
Cadmium, mg/kg dw	<0.22	<0.27	<0.26	<0.25	<0.24
Chromium, mg/kg dw	2.3	4.9	9.2	24	12
Lead, mg/kg dw	1.2	6.0	5.7	8.7	8.1
Selenium, mg/kg dw	<1.0	<1.1	<0.97	<1.0	<0.96
Silver, mg/kg dw	<0.88	<1.1	<1.0	<0.98	<0.98
Mercury, mg/kg dw	<0.026	0.028	0.039	0.028	0.029

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0844-59	NS-LF05-02	
0844-60	NS-LF07-01	
0844-61	NS-LF07-02	
0844-62	NS-LF08-01	

PARAMETER	0844-58	0844-59	0844-60	0844-61	0844-62
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<50	<50	<50	<50	<50
2,4-DB, ug/kg dw	<50	<50	<50	<50	<50
2,4,5-T, ug/kg dw	<30	<30	<30	<30	<30
2,4,5-TP Silvex, ug/kg dw	<10	<10	<10	<10	<10
Dalapon, ug/kg dw	<1000	<1000	<1000	<1000	<1000
Dicamba, ug/kg dw	<10	<10	<10	<10	<10
Dichlorprop, ug/kg dw	<50	<50	<50	<50	<50
Dinoseb, ug/kg dw	<50	<50	<50	<50	<50
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	<1000	<1000	<1000	<1000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	<1000	<1000	<1000	<1000

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0844-59	NS-LF05-02	
0844-60	NS-LF07-01	
0844-61	NS-LF07-02	
0844-62	NS-LF08-01	

PARAMETER	0844-58	0844-59	0844-60	0844-61	0844-62
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<2	<2	<2	<2	<100
alpha-BHC, ug/kg dw	<2	<2	<2	<2	<100
beta-BHC, ug/kg dw	<2	<2	<2	<2	<100
gamma-BHC, ug/kg dw	<2	<2	<2	<2	<100
delta-BHC, ug/kg dw	<2	<2	<2	<2	<100
Chlordane, ug/kg dw	<20	<20	<20	<20	<1000
4,4'-DDD, ug/kg dw	<4	<4	<4	<4	<200
4,4'-DDE, ug/kg dw	<4	<4	<4	<4	<200
4,4'-DDT, ug/kg dw	<10	<10	<10	<10	<500
Dieldrin, ug/kg dw	<4	<4	<4	<4	<200
Endosulfan I, ug/kg dw	<4	<4	<4	<4	<200
Endosulfan II, ug/kg dw	<10	<10	<10	<10	<500
Endosulfan sulfate, ug/kg dw	<16	<16	<16	<16	<800
Endrin, ug/kg dw	<4	<4	<4	<4	<200
Endrin Aldehyde, ug/kg dw	<20	<20	<20	<20	<1000
Heptachlor, ug/kg dw	<2	<2	<2	<2	<100
Heptachlor epoxide, ug/kg dw	<4	<4	<4	<4	<200
Kepone, ug/kg dw	<10	<10	<10	<10	<500

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0844-59	NS-LF05-02	
0844-60	NS-LF07-01	
0844-61	NS-LF07-02	
0844-62	NS-LF08-01	

PARAMETER	0844-58	0844-59	0844-60	0844-61	0844-62
Methoxychlor, ug/kg dw	<80	<80	<80	<80	<4000
Toxaphene, ug/kg dw	<160	<160	<160	<160	76000
Aroclor-1016, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1221, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1232, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1242, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1248, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1254, ug/kg dw	<80	<80	<80	<80	<4000
Aroclor-1260, ug/kg dw	<80	<80	<80	<80	<4000

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0844-59	NS-LF05-02	
0844-60	NS-LF07-01	
0844-61	NS-LF07-02	
0844-62	NS-LF08-01	

PARAMETER	0844-58	0844-59	0844-60	0844-61	0844-62
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<20	<20	<20	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-59	NS-LF05-02	
0844-60	NS-LF07-01	
0844-61	NS-LF07-02	
0844-62	NS-LF08-01	

PARAMETER	0844-58	0844-59	0844-60	0844-61	0844-62
Primary metals					
Arsenic, mg/kg dw	20	10	11	16	10
Barium, mg/kg dw	53	73	95	100	55
Cadmium, mg/kg dw	<0.26	<0.27	<0.27	0.43	0.60
Chromium, mg/kg dw	13	18	15	17	13
Lead, mg/kg dw	7.6	8.8	6.4	7.8	4.6
Selenium, mg/kg dw	<0.93	<1.1	<1.0	<1.1	<1.2
Silver, mg/kg dw	<1.0	<1.1	<1.1	<1.1	<1.0
Mercury, mg/kg dw	<0.028	<0.027	0.055	<0.029	0.066

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0844-63	NS-LF08-02	Client
0844-64	NS-LF09-01	
0844-65	NS-LF09-02	
0844-66	NS-LF10-01	
0844-67	NS-LF10-02	

PARAMETER	0844-63	0844-64	0844-65	0844-66	0844-67
Chlorinated Herbicides (8150)					
2,4-D, ug/kg dw	<50	<50	<50	<50	<50
2,4-DB, ug/kg dw	<50	<50	<50	<50	<50
2,4,5-T, ug/kg dw	<30	<30	<30	<30	<30
2,4,5-TP Silvex, ug/kg dw	<10	,10	<10	<10	<10
Dalapon, ug/kg dw	<1000	<1000	<1000	<1000	<1000
Dicamba, ug/kg dw	<10	<10	<10	<10	<10
Dichlorprop, ug/kg dw	<50	<50	<50	<50	<50
Dinoseb, ug/kg dw	<50	<50	<50	<50	<50
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	<1000	<1000	<1000	<1000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	<1000	<1000	<1000	<1000

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0844-64	NS-LF09-01	
0844-65	NS-LF09-02	
0844-66	NS-LF10-01	
0844-67	NS-LF10-02	

PARAMETER	0844-63	0844-64	0844-65	0844-66	0844-67
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<2	<2	<2	<2	<2
alpha-BHC, ug/kg dw	<2	<2	<2	<2	<2
beta-BHC, ug/kg dw	<2	<2	<2	<2	<2
gamma-BHC, ug/kg dw	<2	<2	<2	<2	<2
delta-BHC, ug/kg dw	<2	<2	<2	<2	<2
Chlordane, ug/kg dw	<20	<20	<20	<20	<20
4,4'-DDD, ug/kg dw	<4	<4	<4	<4	<4
4,4'-DDE, ug/kg dw	<4	<4	<4	<4	<4
4,4'-DDT, ug/kg dw	<10	<10	<10	<10	<10
Dieldrin, ug/kg dw	<4	<4	<4	<4	<4
Endosulfan I, ug/kg dw	<4	<4	<4	<4	<4
Endosulfan II, ug/kg dw	<10	<10	<10	<10	<10
Endosulfan sulfate, ug/kg dw	<16	<16	<16	<16	<16
Endrin, ug/kg dw	<4	<4	<4	<4	<4
Endrin Aldehyde, ug/kg dw	<20	<20	<20	<20	<20
Heptachlor, ug/kg dw	<2	<2	<2	<2	<2
Heptachlor epoxide, ug/kg dw	<4	<4	<4	<4	<4
Kepone, ug/kg dw	<10	<10	<10	<10	<10

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0844-64	NS-LF09-01	
0844-65	NS-LF09-02	
0844-66	NS-LF10-01	
0844-67	NS-LF10-02	

PARAMETER	0844-63	0844-64	0844-65	0844-66	0844-67
Methoxychlor, ug/kg dw	<80	<80	<80	<80	<80
Toxaphene, ug/kg dw	<160	<160	<160	<160	<160
Aroclor-1016, ug/kg dw	<80	<80	<80	<80	<80
Aroclor-1221, ug/kg dw	<80	<80	<80	<80	<80
Aroclor-1232, ug/kg dw	<80	<80	<80	<80	<80
Aroclor-1242, ug/kg dw	<80	<80	<80	<80	<80
Aroclor-1248, ug/kg dw	<80	<80	<80	<80	<80
Aroclor-1254, ug/kg dw	<80	<80	<80	<80	<80
Aroclor-1260, ug/kg dw	<80	<80	<80	<80	<80

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Received: 24 MAR 89

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Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-63	NS-LF08-02	Client
0844-64	NS-LF09-01	
0844-65	NS-LF09-02	
0844-66	NS-LF10-01	
0844-67	NS-LF10-02	

PARAMETER	0844-63	0844-64	0844-65	0844-66	0844-67
Organophosphorus Pesticides					
Azinphos methyl, ug/kg dw	<200	<200	<200	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10	<10	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2	<2	<2	<2
Coumaphos, ug/kg dw	<100	<100	<100	<100	<100
Demeton-O, ug/kg dw	<20	<20	<20	<20	<20
Demeton-S, ug/kg dw	<20	<20	<20	<20	<20
Diazinon, ug/kg dw	<10	<10	<10	<10	<10
Dichlorvos, ug/kg dw	<20	<20	<20	<20	<20
Disulfoton, ug/kg dw	<10	<10	<10	<10	<10
Ethoprop, ug/kg dw	<2	<2	<2	<2	<2
Fensulfothion, ug/kg dw	<100	<100	<100	<100	<100
Fenthion, ug/kg dw	<2	<2	<2	<2	<2
Merphos, ug/kg dw	<10	<10	<10	<10	<10
Mevinphos, ug/kg dw	<2	<2	<2	<2	<2
Naled, ug/kg dw	<20	<20	<20	<20	<20
Methyl Parathion, ug/kg dw	<10	<10	<10	<10	<10
Phorate, ug/kg dw	<2	<2	<2	<2	<2
Ronnel, ug/kg dw	<2	<2	<2	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10	<10	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10	<10	<10	<10

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0844-63	NS-LF08-02	Client
0844-64	NS-LF09-01	
0844-65	NS-LF09-02	
0844-66	NS-LF10-01	
0844-67	NS-LF10-02	

PARAMETER	0844-63	0844-64	0844-65	0844-66	0844-67
Primary metals					
Arsenic, mg/kg dw	38	85	81	5.9	9.7
Barium, mg/kg dw	93	530	410	47	48
Cadmium, mg/kg dw	0.81	1.0	1.3	<0.26	<0.25
Chromium, mg/kg dw	35	75	70	7.0	11
Lead, mg/kg dw	24	37	29	5.0	22
Selenium, mg/kg dw	<1.1	1.1	1.4	<1.0	<0.93
Silver, mg/kg dw	<1.1	<1.2	<1.1	<1.1	<0.98
Mercury, mg/kg dw	0.071	<0.025	<0.025	<0.027	<0.026

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-68	NS-LF11-01	Client
0844-69	NS-LF11-02	

PARAMETER	0844-68	0844-69
Chlorinated Herbicides (8150)		
2,4-D, ug/kg dw	<50	<50
2,4-DB, ug/kg dw	<50	<50
2,4,5-T, ug/kg dw	<30	<30
2,4,5-TP Silvex, ug/kg dw	<10	<10
Dalapon, ug/kg dw	<1000	<1000
Dicamba, ug/kg dw	<10	<10
Dichlorprop, ug/kg dw	<50	<50
Dinoseb, ug/kg dw	<50	<50
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	<1000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	<1000

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-68	NS-LF11-01	Client
0844-69	NS-LF11-02	

PARAMETER	0844-68	0844-69
Cl-Pesticides/PCB (8080)		
Aldrin, ug/kg dw	<2	<2
alpha-BHC, ug/kg dw	<2	<2
beta-BHC, ug/kg dw	<2	<2
gamma-BHC, ug/kg dw	<2	<2
delta-BHC, ug/kg dw	<2	<2
Chlordane, ug/kg dw	<20	<20
4,4'-DDD, ug/kg dw	<4	<4
4,4'-DDE, ug/kg dw	<4	<4
4,4'-DDT, ug/kg dw	<10	<10
Dieldrin, ug/kg dw	<4	<4
Endosulfan I, ug/kg dw	<4	<4
Endosulfan II, ug/kg dw	<10	<10
Endosulfan sulfate, ug/kg dw	<16	<16
Endrin, ug/kg dw	<4	<4
Endrin Aldehyde, ug/kg dw	<20	<20
Heptachlor, ug/kg dw	<2	<2
Heptachlor epoxide, ug/kg dw	<4	<4
Kepone, ug/kg dw	<10	<10
Methoxychlor, ug/kg dw	<80	<80
Toxaphene, ug/kg dw	<160	<160
Aroclor-1016, ug/kg dw	<80	<80

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0844-68	NS-LF11-01	Client
0844-69	NS-LF11-02	

PARAMETER	0844-68	0844-69
Aroclor-1221, ug/kg dw	<80	<80
Aroclor-1232, ug/kg dw	<80	<80
Aroclor-1242, ug/kg dw	<80	<80
Aroclor-1248, ug/kg dw	<80	<80
Aroclor-1254, ug/kg dw	<80	<80
Aroclor-1260, ug/kg dw	<80	<80

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0844-68	NS-LF11-01	Client
0844-69	NS-LF11-02	

PARAMETER	0844-68	0844-69
Organophosphorus Pesticides		
Azinphos methyl, ug/kg dw	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10
Chlorpyrifos, ug/kg dw	<2	<2
Coumaphos, ug/kg dw	<100	<100
Demeton-O, ug/kg dw	<20	<20
Demeton-S, ug/kg dw	<20	<20
Diazinon, ug/kg dw	<10	<10
Dichlorvos, ug/kg dw	<20	<20
Disulfoton, ug/kg dw	<10	<10
Ethoprop, ug/kg dw	<2	<2
Fensulfothion, ug/kg dw	<100	<100
Fenthion, ug/kg dw	<2	<2
Merphos, ug/kg dw	<10	<10
Mevinphos, ug/kg dw	<2	<2
Naled, ug/kg dw	<20	<20
Methyl Parathion, ug/kg dw	<10	<10
Phorate, ug/kg dw	<2	<2
Ronnel, ug/kg dw	<2	<2
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10

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0844-68	NS-LF11-01	Client
0844-69	NS-LF11-02	

PARAMETER	0844-68	0844-69
Primary metals		
Arsenic, mg/kg dw	8.3	14
Barium, mg/kg dw	95	110
Cadmium, mg/kg dw	<0.26	<0.25
Chromium, mg/kg dw	11	13
Lead, mg/kg dw	5.7	8.1
Selenium, mg/kg dw	<1.0	<0.95
Silver, mg/kg dw	<1.0	<1.0
Mercury, mg/kg dw	<0.026	<0.026

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
0844-70	NS-ES01-01	Client
0844-71	NS-ES02-01	

PARAMETER	0844-70	0844-71
Chlorinated Herbicides (8150)		
2,4-D, ug/l	<0.10	<0.10
2,4-DB, ug/l	<1.0	<1.0
2,4,5-T, ug/l	<0.010	<0.010
2,4,5-TP Silvex, ug/l	<0.010	<0.010
Dalapon, ug/l	<50	<50
Dicamba, ug/l	<5.0	<5.0
Dichlorprop, ug/l	<0.020	<0.020
Dinoseb, ug/l	<0.10	<0.10
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/l	<1.0	<1.0
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/l	<1.0	<1.0

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
0844-70	NS-ES01-01	Client
0844-71	NS-ES02-01	

PARAMETER	0844-70	0844-71
Cl-Pesticides/PCB (8080)		
Aldrin, ug/l	<0.010	<0.010
alpha-BHC, ug/l	<0.010	<0.010
beta-BHC, ug/l	<0.010	<0.010
gamma-BHC, ug/l	<0.010	<0.010
delta-BHC, ug/l	<0.010	<0.010
Chlordane, ug/l	<0.10	<0.10
4,4'-DDD, ug/l	<0.020	<0.020
4,4'-DDE, ug/l	<0.020	<0.020
4,4'-DDT, ug/l	<0.050	<0.050
Dieldrin, ug/l	<0.020	<0.020
Endosulfan I, ug/l	<0.020	<0.020
Endosulfan II, ug/l	<0.050	<0.050
Endosulfan sulfate, ug/l	<0.10	<0.10
Endrin, ug/l	<0.020	<0.020
Endrin Aldehyde, ug/l	<0.10	<0.10
Heptachlor, ug/l	<0.010	<0.010
Heptachlor epoxide, ug/l	<0.020	<0.020
Kepone, ug/l	<0.050	<0.050
Methoxychlor, ug/l	<0.50	<0.50
Toxaphene, ug/l	<1.0	<1.0
Aroclor-1016, ug/l	<0.50	<0.50

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0844-70	NS-ES01-01	Client
0844-71	NS-ES02-01	

PARAMETER	0844-70	0844-71
Aroclor-1221, ug/l	<0.50	<0.50
Aroclor-1232, ug/l	<0.50	<0.50
Aroclor-1242, ug/l	<0.50	<0.50
Aroclor-1248, ug/l	<0.50	<0.50
Aroclor-1254, ug/l	<0.50	<0.50
Aroclor-1260, ug/l	<0.50	<0.50

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0844-70	NS-ES01-01	Client
0844-71	NS-ES02-01	

PARAMETER	0844-70	0844-71
Organophosphorus Pesticides		
Azinphos methyl, ug/l	<1	<1
Bolstar (Sulprofos), ug/l	<0.05	<0.05
Chlorpyrifos, ug/l	<0.01	<0.01
Coumaphos, ug/l	<0.50	<0.50
Demeton-O, ug/l	<0.10	<0.10
Demeton-S, ug/l	<0.10	<0.10
Diazinon, ug/l	<0.05	<0.05
Dichlorvos, ug/l	<0.10	<0.10
Disulfoton, ug/l	<0.05	<0.05
Ethoprop, ug/l	<0.01	<0.01
Fensulfothion, ug/l	<0.50	<0.50
Fenthion, ug/l	<0.01	<0.01
Merphos, ug/l	<0.05	<0.05
Mevinphos, ug/l	<0.01	<0.01
Naled, ug/l	<0.10	<0.10
Methyl Parathion, ug/l	<0.05	<0.05
Phorate, ug/l	<0.02	<0.01
Ronnel, ug/l	<0.02	<0.01
Stirophos (Tetrachlorvinphos), ug/l	<0.05	<0.05
Tokuthion (Prothiofos), ug/l	<0.05	<0.05

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0844-70	NS-ES01-01	Client
0844-71	NS-ES02-01	

PARAMETER	0844-70	0844-71
Primary metals		
Arsenic, mg/l	<0.010	<0.010
Barium, mg/l	<0.010	<0.010
Cadmium, mg/l	<0.0050	<0.0050
Chromium, mg/l	<0.010	<0.010
Lead, mg/l	<0.0050	<0.0050
Selenium, mg/l	<0.010	<0.010
Silver, mg/l	<0.010	<0.010
Mercury, mg/l	<0.0002	<0.0002

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0844-72	Lab Blank	Client
0844-73	Accuracy (% Recovery)	
0844-74	Precision (% RSD)	

PARAMETER	0844-72	0844-73	0844-74
Chlorinated Herbicides (8150)			
2,4-D, ug/kg dw	<50	94 %	5.3 %
2,4-DB, ug/kg dw	<50	---	---
2,4,5-T, ug/kg dw	<30	---	---
2,4,5-TP Silvex, ug/kg dw	<10	82 %	16 %
Dalapon, ug/kg dw	<1000	---	---
Dicamba, ug/kg dw	<10	---	---
Dichlorprop, ug/kg dw	<50	---	---
Dinoseb, ug/kg dw	<50	---	---
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<1000	---	---
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<1000	---	---

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LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0844-72	Lab Blank	Client
0844-73	Accuracy (% Recovery)	
0844-74	Precision (% RSD)	

PARAMETER	0844-72	0844-73	0844-74
Cl-Pesticides/PCB (8080)			
Aldrin, ug/kg dw	<2	64 %	5.6 %
alpha-BHC, ug/kg dw	<2	---	---
beta-BHC, ug/kg dw	<2	---	---
gamma-BHC, ug/kg dw	<2	84 %	5.9 %
delta-BHC, ug/kg dw	<2	---	---
Chlordane, ug/kg dw	<20	---	---
4,4'-DDD, ug/kg dw	<4	---	---
4,4'-DDE, ug/kg dw	<4	---	---
4,4'-DDT, ug/kg dw	<10	102 %	7.7 %
Dieldrin, ug/kg dw	<4	96 %	2.9 %
Endosulfan I, ug/kg dw	<4	---	---
Endosulfan II, ug/kg dw	<10	---	---
Endosulfan sulfate, ug/kg dw	<16	---	---
Endrin, ug/kg dw	<4	116 %	4.9 %
Endrin Aldehyde, ug/kg dw	<20	---	---
Heptachlor, ug/kg dw	<2	98 %	2.9 %
Heptachlor epoxide, ug/kg dw	<4	---	---
Kepone, ug/kg dw	<10	---	---
Methoxychlor, ug/kg dw	<80	---	---
Toxaphene, ug/kg dw	<160	---	---

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LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0844-72	Lab Blank	Client
0844-73	Accuracy (% Recovery)	
0844-74	Precision (% RSD)	

PARAMETER	0844-72	0844-73	0844-74
Aroclor-1016, ug/kg dw	<80	---	---
Aroclor-1221, ug/kg dw	<80	---	---
Aroclor-1232, ug/kg dw	<80	---	---
Aroclor-1242, ug/kg dw	<80	---	---
Aroclor-1248, ug/kg dw	<80	---	---
Aroclor-1254, ug/kg dw	<80	---	---
Aroclor-1260, ug/kg dw	<80	---	---

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1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0844-72	Lab Blank	Client
0844-73	Accuracy (% Recovery)	
0844-74	Precision (% RSD)	

PARAMETER	0844-72	0844-73	0844-74
Organophosphorus Pesticides			
Azinphos methyl, ug/kg dw	<200	---	---
Bolstar (Sulprofos), ug/kg dw	<10	---	---
Chlorpyrifos, ug/kg dw	<2	---	---
Coumaphos, ug/kg dw	<100	---	---
Demeton-O, ug/kg dw	<20	---	---
Demeton-S, ug/kg dw	<20	---	---
Diazinon, ug/kg dw	<10	95 %	2.2 %
Dichlorvos, ug/kg dw	<20	---	---
Disulfoton, ug/kg dw	<10	---	---
Ethoprop, ug/kg dw	<2	---	---
Fensulfothion, ug/kg dw	<100	---	---
Fenthion, ug/kg dw	<2	---	---
Merphos, ug/kg dw	<10	---	---
Mevinphos, ug/kg dw	<2	---	---
Naled, ug/kg dw	<20	---	---
Methyl Parathion, ug/kg dw	<10	---	---
Phorate, ug/kg dw	<2	---	---
Ronnel, ug/kg dw	<2	---	---
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	---	---
Tokuthion (Prothiofos), ug/kg dw	<10	---	---

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LOG NO: 89-0844

Received: 24 MAR 89

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Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0844-72	Lab Blank	Client
0844-73	Accuracy (% Recovery)	
0844-74	Precision (% RSD)	

PARAMETER	0844-72	0844-73	0844-74
Volatile Organic Compounds			
Chloromethane, ug/kg dw	<10	---	---
Bromomethane, ug/kg dw	<10	---	---
Vinyl Chloride, ug/kg dw	<10	---	---
Chloroethane, ug/kg dw	<10	---	---
Methylene Chloride, ug/kg dw	<5	---	---
Acetone, ug/kg dw	<100	---	---
Carbon Disulfide, ug/kg dw	<5	---	---
1,1-Dichloroethylene, ug/kg dw	<5	112 %	8.7 %
1,1-Dichloroethane, ug/kg dw	<5	---	---
cis/trans-1,2-Dichloroethylene, ug/kg dw	<5	---	---
Chloroform, ug/kg dw	<5	---	---
1,2-Dichloroethane, ug/kg dw	<5	---	---
2-Butanone, ug/kg dw	<100	---	---
1,1,1-Trichloroethane, ug/kg dw	<5	---	---
Carbon Tetrachloride, ug/kg dw	<5	---	---
Vinyl Acetate, ug/kg dw	<50	---	---
Bromodichloromethane, ug/kg dw	<5	---	---
1,1,2,2-Tetrachloroethane, ug/kg dw	<5	---	---
1,2-Dichloropropane, ug/kg dw	<5	---	---
Trans-1,3-Dichloropropene, ug/kg dw	<5	---	---

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PARAMETER	0844-72	0844-73	0844-74
Trichloroethylene, ug/kg dw	<5	108 %	2.5 %
Dibromochloromethane, ug/kg dw	<5	---	---
1,1,2-Trichloroethane, ug/kg dw	<5	---	---
Benzene, ug/kg dw	<5	140 %	3.8 %
Cis-1,3-Dichloropropene, ug/kg dw	<5	---	---
2-Chloroethylvinyl Ether, ug/kg dw	<10	---	---
Bromoform, ug/kg dw	<5	---	---
2-Hexanone, ug/kg dw	<50	---	---
4-methyl-2-pentanone, ug/kg dw	<50	---	---
Tetrachloroethylene, ug/kg dw	<5	---	---
Toluene, ug/kg dw	<5	118 %	6.0 %
Chlorobenzene, ug/kg dw	<5	115 %	4.6 %
Ethylbenzene, ug/kg dw	<5	---	---
Styrene, ug/kg dw	<5	---	---
Xylenes, ug/kg dw	<5	---	---

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PARAMETER	0844-72	0844-73	0844-74
Primary metals			
Arsenic, mg/kg dw	<1.0	105 %	0 %
Barium, mg/kg dw	<1.0	91 %	1.1 %
Cadmium, mg/kg dw	<0.50	100 %	0 %
Chromium, mg/kg dw	<1.0	84 %	0 %
Lead, mg/kg dw	<0.50	95 %	0 %
Selenium, mg/kg dw	<1.0	95 %	0 %
Silver, mg/kg dw	<1.0	84 %	1.1 %
Mercury, mg/kg dw	<0.02	95 %	4.2 %

Method: EPA 40 CFR Part 136
Method: EPA SW-846
HRS Certification #'s:81291,87279,E81005,E87052

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LOG NO: 89-0891

Received: 04 APR 89

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Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
0891-3	NS-MW01-01	Client
0891-4	NS-MW02-01	
0891-5	NS-MW03-01	
0891-6	NS-MW04-01	
0891-7	NS-MW05-0	

PARAMETER	0891-3	0891-4	0891-5	0891-6	0891-7
Volatile Organic Compounds					
Acrolein, ug/l	<250	<250	<250	<250	<250
Acrylonitrile, ug/l	<250	<250	<250	<250	<250
Benzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bis(chloromethyl)Ether, ug/l	<10	<10	<10	<10	<10
Bromoform, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Tetrachloride, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane, ug/l	<10	<10	<10	<10	<10
2-Chloroethylvinyl Ether, ug/l	<10	<10	<10	<10	<10
Chloroform, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorobromomethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0

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PARAMETER	0891-3	0891-4	0891-5	0891-6	0891-7
Ethylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Bromide, ug/l	<10	<10	<10	<10	<10
Methyl Chloride, ug/l	<10	<10	<10	<10	<10
Methylene Chloride, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
cis/trans-1,2-Dichloroethyl ene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride, ug/l	<10	<10	<10	<10	<10

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PARAMETER	0891-3	0891-4	0891-5	0891-6	0891-7
Pesticides/PCB's 8080					
Aldrin, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Alpha-BHC, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Beta-BHC, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Gamma-BHC, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Delta-BHC, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Chlordane, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT, ug/l	0.054	<0.050	<0.050	<0.050	<0.050
4,4'-DDE, ug/l	<0.020	<0.020	<0.020	<0.020	<0.020
4,4'-DDD, ug/l	0.30	<0.020	<0.020	<0.020	<0.020
Dieldrin, ug/l	<0.020	<0.020	<0.020	<0.020	<0.020
Alpha-Endosulfan, ug/l	<0.020	<0.020	<0.020	<0.020	<0.020
Beta-Endosulfan, ug/l	<0.050	<0.050	<0.050	<0.050	<0.050
Endosulfan Sulfate, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
Endrin, ug/l	<0.020	<0.020	<0.020	<0.020	<0.020
Endrin Aldehyde, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
Heptachlor, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Heptachlor Epoxide, ug/l	<0.020	<0.020	<0.020	<0.020	<0.020
PCB-1242, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50

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0891-4	NS-MW02-01	
0891-5	NS-MW03-01	
0891-6	NS-MW04-01	
0891-7	NS-MW05-0	

PARAMETER	0891-3	0891-4	0891-5	0891-6	0891-7
PCB-1254, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1221, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1232, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1248, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1260, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1016, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Toxaphene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0

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0891-7	NS-MW05-0	

PARAMETER	0891-3	0891-4	0891-5	0891-6	0891-7
PP-Base/Neutral Compounds 8270					
Acenaphthene, ug/l	<10	<10	<10	<10	<10
Acenaphthylene, ug/l	<10	<10	<10	<10	<10
Anthracene, ug/l	<10	<10	<10	<10	<10
Benzidine, ug/l	<80	<80	<80	<80	<80
Benzo(a)Anthracene, ug/l	<10	<10	<10	<10	<10
Benzo(a)Pyrene, ug/l	<10	<10	<10	<10	<10
3,4-Benzofluoranthene, ug/l	<10	<10	<10	<10	<10
Benzo (g,h,i) Perylene, ug/l	<10	<10	<10	<10	<10
Benzo (k) Fluoranthene, ug/l	<10	<10	<10	<10	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10	<10	<10	<10	<10
Bis (2-Chloroethyl) Ether, ug/l	<10	<10	<10	<10	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10	<10	<10	<10	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	<10	<10	<10	<10
4-Bromophenyl Phenyl Ether, ug/l	<10	<10	<10	<10	<10
Butyl Benzyl Phthalate, ug/l	<10	<10	<10	<10	<10
2-Chloronaphthalene, ug/l	<10	<10	<10	<10	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10	<10	<10	<10	<10
Chrysene, ug/l	<10	<10	<10	<10	<10

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PARAMETER	0891-3	0891-4	0891-5	0891-6	0891-7
Dibenzo (a,h) Anthracene, ug/l	<10	<10	<10	<10	<10
1,2-Dichlorobenzene, ug/l	<10	<10	<10	<10	<10
1,3-Dichlorobenzene, ug/l	<10	<10	<10	<10	<10
1,4-Dichlorobenzene, ug/l	<10	<10	<10	<10	<10
3,3-Dichlorobenzidine, ug/l	<20	<20	<20	<20	<20
Diethyl Phthalate, ug/l	<10	<10	<10	<10	<10
Dimethyl Phthalate, ug/l	<10	<10	<10	<10	<10
Di-N-Butyl Phthalate, ug/l	<10	<10	<10	<10	<10
2,4-Dinitrotoluene, ug/l	<10	<10	<10	<10	<10
2,6-Dinitrotoluene, ug/l	<10	<10	<10	<10	<10
Di-N-Octyl Phthalate, ug/l	<10	<10	<10	<10	<10
1,2-Diphenylhydrazine, ug/l	<10	<10	<10	<10	<10
Fluoranthene, ug/l	<10	<10	<10	<10	<10
Fluorene, ug/l	<10	<10	<10	<10	<10
Hexachlorobenzene, ug/l	<10	<10	<10	<10	<10
Hexachlorobutadiene, ug/l	<10	<10	<10	<10	<10
Hexachlorocyclopentadiene, ug/l	<10	<10	<10	<10	<10
Hexachloroethane, ug/l	<10	<10	<10	<10	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10	<10	<10	<10	<10

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0891-7	NS-MW05-0	

PARAMETER	0891-3	0891-4	0891-5	0891-6	0891-7
Isophorone, ug/l	<10	<10	<10	<10	<10
Naphthalene, ug/l	<10	<10	<10	<10	<10
Nitrobenzene, ug/l	<10	<10	<10	<10	<10
N-Nitrosodimethylamine, ug/l	<10	<10	<10	<10	<10
N-Nitrosodi-N-Propylamine, ug/l	<10	<10	<10	<10	<10
N-Nitrosodiphenylamine, ug/l	<10	<10	<10	<10	<10
Phenanthrene, ug/l	<10	<10	<10	<10	<10
Pyrene, ug/l	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene, ug/l	<10	<10	<10	<10	<10

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PARAMETER	0891-3	0891-4	0891-5	0891-6	0891-7
PP-Acid Extractable Organics					
2-Chlorophenol, ug/l	<10	<10	<10	<10	<10
2,4-Dichlorophenol, ug/l	<10	<10	<10	<10	<10
2,4-Dimethylphenol, ug/l	<10	<10	<10	<10	<10
4,6-Dinitro-o-cresol, ug/l	<50	<50	<50	<50	<50
2,4-Dinitrophenol, ug/l	<50	<50	<50	<50	<50
2-Nitrophenol, ug/l	<10	<10	<10	<10	<10
4-Nitrophenol, ug/l	<50	<50	<50	<50	<50
P-Chloro-m-cresol, ug/l	<10	<10	<10	<10	<10
Pentachlorophenol, ug/l	<50	<50	<50	<50	<50
Phenol, ug/l	<10	<10	<10	<10	<10
2,4,6-Trichlorophenol, ug/l	<10	<10	<10	<10	<10
Antimony, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic, mg/l	<0.010	<0.010	0.015	<0.010	<0.010
Beryllium, mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cadmium, mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium, mg/l	<0.010	0.012	0.14	<0.010	<0.010
Copper, mg/l	<0.010	<0.010	<0.010	<0.010	0.045
Lead, mg/l	<0.0050	0.046	0.015	<0.0050	0.013

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(904) 878-3994

LOG NO: 89-0891

Received: 04 APR 89

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
0891-3	NS-MW01-01	Client
0891-4	NS-MW02-01	
0891-5	NS-MW03-01	
0891-6	NS-MW04-01	
0891-7	NS-MW05-0	

PARAMETER	0891-3	0891-4	0891-5	0891-6	0891-7
Mercury, mg/l	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel, mg/l	<0.010	<0.010	0.042	0.010	0.011
Selenium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc, mg/l	<0.010	0.071	0.071	0.020	0.059
Cyanide, mg/l	<0.01	<0.01	0.02	<0.01	<0.01
Phenolics,Total Recoverable, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010

Method: EPA 40 CFR Part 136
Method: EPA SW 846
HRS Certification #'s:81291,87279,E81005,E87052

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Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
0891-8	NS-MW06-01	Client
0891-9	NS-MW07-01	
0891-10	NS-MW08-01	
0891-11	NS-MW09-01	
0891-12	NS-MW10-01	

PARAMETER	0891-8	0891-9	0891-10	0891-11	0891-12
Volatile Organic Compounds					
Acrolein, ug/l	<250	<250	<250	<250	<250
Acrylonitrile, ug/l	<250	<250	<250	<250	<250
Benzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bis(chloromethyl)Ether, ug/l	<10	<10	<10	<10	<10
Bromoform, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Tetrachloride, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane, ug/l	<10	<10	<10	<10	<10
2-Chloroethylvinyl Ether, ug/l	<10	<10	<10	<10	<10
Chloroform, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorobromomethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0

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Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
0891-8	NS-MW06-01	Client
0891-9	NS-MW07-01	
0891-10	NS-MW08-01	
0891-11	NS-MW09-01	
0891-12	NS-MW10-01	

PARAMETER	0891-8	0891-9	0891-10	0891-11	0891-12
Ethylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Bromide, ug/l	<10	<10	<10	<10	<10
Methyl Chloride, ug/l	<10	<10	<10	<10	<10
Methylene Chloride, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
cis/trans-1,2-Dichloroethyl ene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride, ug/l	<10	<10	<10	<10	<10

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0891-10	NS-MW08-01	
0891-11	NS-MW09-01	
0891-12	NS-MW10-01	

PARAMETER	0891-8	0891-9	0891-10	0891-11	0891-12
Pesticides/PCB's					
Aldrin, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Alpha-BHC, ug/l	<0.010	0.010	0.036	<0.010	<0.010
Beta-BHC, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Gamma-BHC, ug/l	<0.010	<0.010	0.14	<0.010	<0.010
Delta-BHC, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Chlordane, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT, ug/l	<0.050	<0.050	<0.050	<0.050	<0.050
4,4'-DDE, ug/l	<0.020	<0.020	<0.020	<0.020	<0.020
4,4'-DDD, ug/l	<0.020	<0.020	<0.020	<0.020	<0.020
Dieldrin, ug/l	<0.020	<0.020	<0.020	<0.020	<0.020
Alpha-Endosulfan, ug/l	<0.020	<0.020	<0.020	<0.020	<0.020
Beta-Endosulfan, ug/l	<0.050	<0.050	<0.050	<0.050	<0.050
Endosulfan Sulfate, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
Endrin, ug/l	<0.020	<0.020	<0.020	0.072	<0.020
Endrin Aldehyde, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
Heptachlor, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Heptachlor Epoxide, ug/l	<0.020	<0.020	<0.020	<0.020	<0.020
PCB-1242, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50

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0891-9	NS-MW07-01	
0891-10	NS-MW08-01	
0891-11	NS-MW09-01	
0891-12	NS-MW10-01	

PARAMETER	0891-8	0891-9	0891-10	0891-11	0891-12
PCB-1254, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1221, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1232, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1248, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1260, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1016, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Toxaphene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0

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0891-10	NS-MW08-01	
0891-11	NS-MW09-01	
0891-12	NS-MW10-01	

PARAMETER	0891-8	0891-9	0891-10	0891-11	0891-12
PP-Base/Neutral Compounds					
Acenaphthene, ug/l	<10	<10	<10	<10	<10
Acenaphthylene, ug/l	<10	<10	<10	<10	<10
Anthracene, ug/l	<10	<10	<10	<10	<10
Benzidine, ug/l	<80	<80	<80	<80	<80
Benzo(a)Anthracene, ug/l	<10	<10	<10	<10	<10
Benzo(a)Pyrene, ug/l	<10	<10	<10	<10	<10
3,4-Benzofluoranthene, ug/l	<10	<10	<10	<10	<10
Benzo (g,h,i) Perylene, ug/l	<10	<10	<10	<10	<10
Benzo (k) Fluoranthene, ug/l	<10	<10	<10	<10	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10	<10	<10	<10	<10
Bis (2-Chloroethyl) Ether, ug/l	<10	<10	<10	<10	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10	<10	<10	<10	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	<10	<10	<10	<10
4-Bromophenyl Phenyl Ether, ug/l	<10	<10	<10	<10	<10
Butyl Benzyl Phthalate, ug/l	<10	<10	<10	<10	<10
2-Chloronaphthalene, ug/l	<10	<10	<10	<10	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10	<10	<10	<10	<10
Chrysene, ug/l	<10	<10	<10	<10	<10

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0891-10	NS-MW08-01	
0891-11	NS-MW09-01	
0891-12	NS-MW10-01	

PARAMETER	0891-8	0891-9	0891-10	0891-11	0891-12
Dibenzo (a,h) Anthracene, ug/l	<10	<10	<10	<10	<10
1,2-Dichlorobenzene, ug/l	<10	<10	<10	<10	<10
1,3-Dichlorobenzene, ug/l	<10	<10	<10	<10	<10
1,4-Dichlorobenzene, ug/l	<10	<10	<10	<10	<10
3,3-Dichlorobenzidine, ug/l	<20	<20	<20	<20	<20
Diethyl Phthalate, ug/l	<10	<10	<10	<10	<10
Dimethyl Phthalate, ug/l	<10	<10	<10	<10	<10
Di-N-Butyl Phthalate, ug/l	<10	<10	<10	<10	<10
2,4-Dinitrotoluene, ug/l	<10	<10	<10	<10	<10
2,6-Dinitrotoluene, ug/l	<10	<10	<10	<10	<10
Di-N-Octyl Phthalate, ug/l	<10	<10	<10	<10	<10
1,2-Diphenylhydrazine, ug/l	<10	<10	<10	<10	<10
Fluoranthene, ug/l	<10	<10	<10	<10	<10
Fluorene, ug/l	<10	<10	<10	<10	<10
Hexachlorobenzene, ug/l	<10	<10	<10	<10	<10
Hexachlorobutadiene, ug/l	<10	<10	<10	<10	<10
Hexachlorocyclopentadiene, ug/l	<10	<10	<10	<10	<10
Hexachloroethane, ug/l	<10	<10	<10	<10	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10	<10	<10	<10	<10

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0891-11	NS-MW09-01	
0891-12	NS-MW10-01	

PARAMETER	0891-8	0891-9	0891-10	0891-11	0891-12
Isophorone, ug/l	<10	<10	<10	<10	<10
Naphthalene, ug/l	<10	<10	<10	<10	<10
Nitrobenzene, ug/l	<10	<10	<10	<10	<10
N-Nitrosodimethylamine, ug/l	<10	<10	<10	<10	<10
N-Nitrosodi-N-Propylamine, ug/l	<10	<10	<10	<10	<10
N-Nitrosodiphenylamine, ug/l	<10	<10	<10	<10	<10
Phenanthrene, ug/l	<10	<10	<10	<10	<10
Pyrene, ug/l	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene, ug/l	<10	<10	<10	<10	<10

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0891-10	NS-MW08-01	
0891-11	NS-MW09-01	
0891-12	NS-MW10-01	

PARAMETER	0891-8	0891-9	0891-10	0891-11	0891-12
PP-Acid Extractable Organics					
2-Chlorophenol, ug/l	<10	<10	<10	<10	<10
2,4-Dichlorophenol, ug/l	<10	<10	<10	<10	<10
2,4-Dimethylphenol, ug/l	<10	<10	<10	<10	<10
4,6-Dinitro-o-cresol, ug/l	<50	<50	<50	<50	<50
2,4-Dinitrophenol, ug/l	<50	<50	<50	<50	<50
2-Nitrophenol, ug/l	<10	<10	<10	<10	<10
4-Nitrophenol, ug/l	<50	<50	<50	<50	<50
P-Chloro-m-cresol, ug/l	<10	<10	<10	<10	<10
Pentachlorophenol, ug/l	<50	<50	<50	<50	<50
Phenol, ug/l	<10	<10	<10	<10	<10
2,4,6-Trichlorophenol, ug/l	<10	<10	<10	<10	<10
Antimony, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium, mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cadmium, mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium, mg/l	<0.010	0.021	<0.010	<0.010	<0.010
Copper, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
Lead, mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

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0891-10	NS-MW08-01	
0891-11	NS-MW09-01	
0891-12	NS-MW10-01	

PARAMETER	0891-8	0891-9	0891-10	0891-11	0891-12
Mercury, mg/l	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
Selenium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc, mg/l	0.016	0.011	0.019	0.030	0.019
Cyanide, mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
Phenolics, Total Recoverable, mg/l	0.012	0.015	0.013	0.011	0.018

Method: EPA 40 CFR Part 136
Method: EPA SW 846
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1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
0891-13	NS-SW01-01	Client
0891-14	Equipment Blank	

PARAMETER	0891-13	0891-14
Volatile Organic Compounds		
Acrolein, ug/l	<250	<250
Acrylonitrile, ug/l	<250	<250
Benzene, ug/l	<5.0	<5.0
Bis(chloromethyl)Ether, ug/l	<10	<10
Bromoform, ug/l	<5.0	<5.0
Carbon Tetrachloride, ug/l	<5.0	<5.0
Chlorobenzene, ug/l	<5.0	<5.0
Chlorodibromomethane, ug/l	<5.0	<5.0
Chloroethane, ug/l	<10	<10
2-Chloroethylvinyl Ether, ug/l	<10	<10
Chloroform, ug/l	<5.0	<5.0
Dichlorobromomethane, ug/l	<5.0	<5.0
Dichlorodifluoromethane, ug/l	<5.0	<5.0
1,1-Dichloroethane, ug/l	<5.0	<5.0
1,2-Dichloroethane, ug/l	<5.0	<5.0
1,1-Dichloroethylene, ug/l	<5.0	<5.0
1,2-Dichloropropane, ug/l	<5.0	<5.0
1,3-Dichloropropene, ug/l	<5.0	<5.0
Ethylbenzene, ug/l	<5.0	<5.0
Methyl Bromide, ug/l	<10	<10
Methyl Chloride, ug/l	<10	<10

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LOG NO: 89-0891

Received: 04 APR 89

Mr. Kevin Finder
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Clearwater, Florida 33546

Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
0891-13	NS-SW01-01	Client
0891-14	Equipment Blank	

PARAMETER	0891-13	0891-14			
Methylene Chloride, ug/l	<5.0	<5.0			
1,1,2,2-Tetrachloroethane, ug/l	<5.0	<5.0			
Tetrachloroethylene, ug/l	<5.0	<5.0			
Toluene, ug/l	<5.0	<5.0			
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	<5.0			
1,1,1-Trichloroethane, ug/l	<5.0	<5.0			
1,1,2-Trichloroethane, ug/l	<5.0	<5.0			
Trichloroethylene, ug/l	<5.0	<5.0			
Trichlorofluoromethane, ug/l	<5.0	<5.0			
Vinyl Chloride, ug/l	<10	<10			

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
0891-13	NS-SW01-01	Client
0891-14	Equipment Blank	

PARAMETER	0891-13	0891-14
Pesticides/PCB's		
Aldrin, ug/l	<0.010	<0.010
Alpha-BHC, ug/l	<0.010	<0.010
Beta-BHC, ug/l	<0.010	<0.010
Gamma-BHC, ug/l	<0.010	<0.010
Delta-BHC, ug/l	<0.010	<0.010
Chlordane, ug/l	<0.10	<0.10
4,4'-DDT, ug/l	<0.050	<0.050
4,4'-DDE, ug/l	<0.020	<0.020
4,4'-DDD, ug/l	<0.020	<0.020
Dieldrin, ug/l	<0.020	<0.020
Alpha-Endosulfan, ug/l	<0.020	<0.020
Beta-Endosulfan, ug/l	<0.050	<0.050
Endosulfan Sulfate, ug/l	<0.10	<0.10
Endrin, ug/l	<0.020	<0.020
Endrin Aldehyde, ug/l	<0.10	<0.10
Heptachlor, ug/l	<0.010	<0.010
Heptachlor Epoxide, ug/l	<0.020	<0.020
PCB-1242, ug/l	<0.50	<0.50
PCB-1254, ug/l	<0.50	<0.50
PCB-1221, ug/l	<0.50	<0.50
PCB-1232, ug/l	<0.50	<0.50
PCB-1248, ug/l	<0.50	<0.50
PCB-1260, ug/l	<0.50	<0.50
PCB-1016, ug/l	<0.50	<0.50
Toxaphene, ug/l	<1.0	<1.0

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0891-13	NS-SW01-01	Client
0891-14	Equipment Blank	

PARAMETER	0891-13	0891-14
PP-Base/Neutral Compounds		
Acenaphthene, ug/l	<10	<10
Acenaphthylene, ug/l	<10	<10
Anthracene, ug/l	<10	<10
Benzidine, ug/l	<80	<80
Benzo(a)Anthracene, ug/l	<10	<10
Benzo(a)Pyrene, ug/l	<10	<10
3,4-Benzofluoranthene, ug/l	<10	<10
Benzo (g,h,i) Perylene, ug/l	<10	<10
Benzo (k) Fluoranthene, ug/l	<10	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10	<10
Bis (2-Chloroethyl) Ether, ug/l	<10	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	<10
4-Bromophenyl Phenyl Ether, ug/l	<10	<10
Butyl Benzyl Phthalate, ug/l	<10	<10
2-Chloronaphthalene, ug/l	<10	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10	<10
Chrysene, ug/l	<10	<10
Dibenzo (a,h) Anthracene, ug/l	<10	<10
1,2-Dichlorobenzene, ug/l	<10	<10
1,3-Dichlorobenzene, ug/l	<10	<10

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0891-14	Equipment Blank	

PARAMETER	0891-13	0891-14
1,4-Dichlorobenzene, ug/l	<10	<10
3,3-Dichlorobenzidine, ug/l	<20	<20
Diethyl Phthalate, ug/l	<10	<10
Dimethyl Phthalate, ug/l	<10	<10
Di-N-Butyl Phthalate, ug/l	<10	<10
2,4-Dinitrotoluene, ug/l	<10	<10
2,6-Dinitrotoluene, ug/l	<10	<10
Di-N-Octyl Phthalate, ug/l	<10	<10
1,2-Diphenylhydrazine, ug/l	<10	<10
Fluoranthene, ug/l	<10	<10
Fluorene, ug/l	<10	<10
Hexachlorobenzene, ug/l	<10	<10
Hexachlorobutadiene, ug/l	<10	<10
Hexachlorocyclopentadiene, ug/l	<10	<10
Hexachloroethane, ug/l	<10	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10	<10
Isophorone, ug/l	<10	<10
Naphthalene, ug/l	<10	<10
Nitrobenzene, ug/l	<10	<10
N-Nitrosodimethylamine, ug/l	<10	<10
N-Nitrosodi-N-Propylamine, ug/l	<10	<10
N-Nitrosodiphenylamine, ug/l	<10	<10
Phenanthrene, ug/l	<10	<10
Pyrene, ug/l	<10	<10
1,2,4-Trichlorobenzene, ug/l	<10	<10

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0891-14	Equipment Blank	

PARAMETER	0891-13	0891-14
PP-Acid Extractable Organics		
2-Chlorophenol, ug/l	<10	<10
2,4-Dichlorophenol, ug/l	<10	<10
2,4-Dimethylphenol, ug/l	<10	<10
4,6-Dinitro-o-cresol, ug/l	<50	<50
2,4-Dinitrophenol, ug/l	<50	<50
2-Nitrophenol, ug/l	<10	<10
4-Nitrophenol, ug/l	<50	<50
P-Chloro-m-cresol, ug/l	<10	<10
Pentachlorophenol, ug/l	<50	<50
Phenol, ug/l	<10	<10
2,4,6-Trichlorophenol, ug/l	<10	<10
Antimony, mg/l	<0.050	<0.050
Arsenic, mg/l	<0.010	<0.010
Beryllium, mg/l	<0.0050	<0.0050
Cadmium, mg/l	<0.0050	<0.0050
Chromium, mg/l	0.022	<0.010
Copper, mg/l	<0.010	<0.010
Lead, mg/l	<0.0050	<0.0050
Mercury, mg/l	<0.00020	<0.00020
Nickel, mg/l	<0.010	<0.010
Selenium, mg/l	<0.010	<0.010

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0891-14	Equipment Blank	

PARAMETER	0891-13	0891-14
Silver, mg/l	<0.010	<0.010
Thallium, mg/l	<0.010	<0.010
Zinc, mg/l	0.020	<0.010
Cyanide, mg/l	0.02	<0.01
Phenolics, Total Recoverable, mg/l	0.013	<0.010

Method: EPA 40 CFR Part 136
Method: EPA SW 846
HRS Certification #'s:81291,87279,E81005,E87052

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0891-15	Lab Blank	Client
0891-16	Accuracy (% Recovery)	
0891-17	Precision (% RSD)	

PARAMETER	0891-15	0891-16	0891-17
Volatile Organic Compounds			
Acrolein, ug/l	<250	---	---
Acrylonitrile, ug/l	<250	---	---
Benzene, ug/l	<5.0	96 %	7.3 %
Bis(chloromethyl)Ether, ug/l	<10	---	---
Bromoform, ug/l	<5.0	---	---
Carbon Tetrachloride, ug/l	<5.0	---	---
Chlorobenzene, ug/l	<5.0	94 %	6.0 %
Chlorodibromomethane, ug/l	<5.0	---	---
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<10	---	---
Chloroform, ug/l	<5.0	---	---
Dichlorobromomethane, ug/l	<5.0	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloroethane, ug/l	<5.0	---	---
1,1-Dichloroethylene, ug/l	<5.0	107 %	7.9 %
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---

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LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0891-15	Lab Blank	Client
0891-16	Accuracy (% Recovery)	
0891-17	Precision (% RSD)	

PARAMETER	0891-15	0891-16	0891-17
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Tetrachloroethylene, ug/l	<5.0	86.5 %	7.3 %
Toluene, ug/l	<5.0	96 %	5.9 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,1-Trichloroethane, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichloroethylene, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---
Vinyl Chloride, ug/l	<10	---	---

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LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0891-15	Lab Blank	Client
0891-16	Accuracy (% Recovery)	
0891-17	Precision (% RSD)	

PARAMETER	0891-15	0891-16	0891-17
Pesticides/PCB's			
Aldrin, ug/l	<0.010	49 %	11 %
Alpha-BHC, ug/l	<0.010	---	---
Beta-BHC, ug/l	<0.010	---	---
Gamma-BHC, ug/l	<0.010	71 %	3.0 %
Delta-BHC, ug/l	<0.010	---	---
Chlordane, ug/l	<0.10	---	---
4,4'-DDT, ug/l	<0.050	60 %	1.2 %
4,4'-DDE, ug/l	<0.020	---	---
4,4'-DDD, ug/l	<0.020	---	---
Dieldrin, ug/l	<0.020	69 %	0 %
Alpha-Endosulfan, ug/l	<0.020	---	---
Beta-Endosulfan, ug/l	<0.050	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin, ug/l	<0.020	112 %	2.5 %
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.010	71 %	8.0 %
Heptachlor Epoxide, ug/l	<0.020	---	---
PCB-1242, ug/l	<0.50	---	---
PCB-1254, ug/l	<0.50	---	---
PCB-1221, ug/l	<0.50	---	---
PCB-1232, ug/l	<0.50	---	---
PCB-1248, ug/l	<0.50	---	---
PCB-1260, ug/l	<0.50	---	---
PCB-1016, ug/l	<0.50	---	---
Toxaphene, ug/l	<1.0	---	---

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LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0891-15	Lab Blank	Client
0891-16	Accuracy (% Recovery)	
0891-17	Precision (% RSD)	

PARAMETER	0891-15	0891-16	0891-17
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	81 %	5.5 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---

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LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0891-15	Lab Blank	Client
0891-16	Accuracy (% Recovery)	
0891-17	Precision (% RSD)	

PARAMETER	0891-15	0891-16	0891-17
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	78 %	3.4 %
3,3-Dichlorobenzidine, ug/l	<20		---
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	69 %	5.2 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	62 %	0 %
N-Nitrosodiphenylamine, ug/l	<10	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	86 %	5.2 %
1,2,4-Trichlorobenzene, ug/l	<10	78 %	3.4 %

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0891-15	Lab Blank	Client
0891-16	Accuracy (% Recovery)	
0891-17	Precision (% RSD)	

PARAMETER	0891-15	0891-16	0891-17
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	<10	<10
2,4-Dichlorophenol, ug/l	<10	<10	<10
2,4-Dimethylphenol, ug/l	<10	<10	<10
4,6-Dinitro-o-cresol, ug/l	<50	<50	<50
2,4-Dinitrophenol, ug/l	<50	<50	<50
2-Nitrophenol, ug/l	<10	<10	<10
4-Nitrophenol, ug/l	<50	<50	<50
P-Chloro-m-cresol, ug/l	<10	<10	<10
Pentachlorophenol, ug/l	<50	<50	<50
Phenol, ug/l	<10	<10	<10
2,4,6-Trichlorophenol, ug/l	<10	<10	<10
Antimony, mg/l	<0.050	98 %	1.0 %
Arsenic, mg/l	<0.010	106 %	0 %
Beryllium, mg/l	<0.0050	92 %	1.1 %
Cadmium, mg/l	<0.0050	103 %	0 %
Chromium, mg/l	<0.010	93 %	1.1 %
Copper, mg/l	<0.010	96 %	1.1 %
Lead, mg/l	<0.0050	103 %	4.9 %
Mercury, mg/l	<0.00020	96 %	3.1 %
Nickel, mg/l	<0.010	87 %	1.1 %

Thomas L. Stephens
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Janette Davis Long
Vice-President

SAVANNAH LABORATORIES
AND ENVIRONMENTAL SERVICES, INC.
TALLAHASSEE DIVISION

2820 Industrial Plaza Blvd. (32301)
P. O. Box 13056 • Tallahassee, FL 32317-3056
(904) 878-3994

LOG NO: 89-0891

Received: 04 APR 89

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , QC SAMPLES	SAMPLED BY
0891-15	Lab Blank	Client
0891-16	Accuracy (% Recovery)	
0891-17	Precision (% RSD)	

PARAMETER	0891-15	0891-16	0891-17
Selenium, mg/l	<0.010	83 %	18 %
Silver, mg/l	<0.010	113 %	0.88 %
Thallium, mg/l	<0.010	88 %	6.0 %
Zinc, mg/l	<0.010	91 %	1.1 %
Cyanide, mg/l	<0.01	88 %	2 %
Phenolics,Total Recoverable, mg/l	<0.010	94 %	13 %

Method: EPA 40 CFR Part 136
Method: EPA SW 846
HRS Certification #'s:81291,87279,E81005,E87052

Thomas L. Stephens

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TALLAHASSEE DIVISION
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(904) 878-3994

PROJECT NO: Newberry

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

INVOICE NO: 18126

INVOICE DATE: 26 APR 1989

TERMS: Net 30 Days

LOG NO: 89-0891 INVOICE

ITEM	SAMPLE IDENTIFICATION	QTY	ANALYSIS	PRICE	AMOUNT
1	1-NS-AS26-01 2-NS-AS26-02	2	Cl-Pesticides/PCB (8080), Organophosphorus Pesticides, Chlorinated Herbicides (8150), Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Zinc	$551.00	1,102.00
2	3-NS-MW01-01 4-NS-MW02-01 5-NS-MW03-01 6-NS-MW04-01 7-NS-MW05-0 8-NS-MW06-01 9-NS-MW07-01 10-NS-MW08-01 11-NS-MW09-01 12-NS-MW10-01 13-NS-SW01-01 14-Equipment Blank	12	Volatile Organic Compounds, Pesticides/PCB's, PP-Base/Neutral Compounds, PP-Acid Extractable Organics, Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Zinc, Cyanide, Phenolics,Total Recoverable	$850.00	10,200.00

INVOICE CONTINUED ON PAGE 2

Thomas L. Stephens
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TALLAHASSEE DIVISION
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(904) 878-3994

PROJECT NO: Newberry

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

INVOICE NO: 18126

INVOICE DATE: 26 APR 1989

TERMS: Net 30 Days

LOG NO: 89-0891 INVOICE

ITEM	SAMPLE IDENTIFICATION	QTY	ANALYSIS	PRICE	AMOUNT
3	15-Lab Blank 16-Accuracy (% Recovery) 17-Precision (% RSD)	3	Volatile Organic Compounds, Pesticides/PCB's, PP-Base/Neutral Compounds, PP-Acid Extractable Organics, Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Zinc, Cyanide, Phenolics,Total Recoverable		

TOTAL $11,302.00

REPORTED TO: Mr. Kevin Finder
For Proper Credit, please show INVOICE NUMBER on your remittance.
A Service Charge of 1 - 1/2% will be added to unpaid balance after 30 days.

CUSTOMER PHONE: 813/530-9984
Remit to: Savannah Laboratories and Environmental Services
P.O. Box 13842
Savannah, Georgia 31416-0842

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(904) 878-3994

LOG NO: 89-0891

Received: 04 APR 89

Mr. Kevin Finder
Camp Dresser & McKee
1321 US 19 South, Suite 100B
Clearwater, Florida 33546

Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0891-1	NS-AS26-01	Client
0891-2	NS-AS26-02	

PARAMETER	0891-1	0891-2
Cl-Pesticides/PCB (8080)		
Aldrin, ug/kg dw	<20000	<200
alpha-BHC, ug/kg dw	<20000	<200
beta-BHC, ug/kg dw	<20000	<200
gamma-BHC, ug/kg dw	230000	610
delta-BHC, ug/kg dw	<20000	<200
Chlordane, ug/kg dw	<200000	<2000
4,4'-DDD, ug/kg dw	<40000	<400
4,4'-DDE, ug/kg dw	<40000	<400
4,4'-DDT, ug/kg dw	<100000	<1000
Dieldrin, ug/kg dw	<40000	<400
Endosulfan I, ug/kg dw	570000	1000
Endosulfan II, ug/kg dw	<100000	<1000
Endosulfan sulfate, ug/kg dw	<160000	<1600
Endrin, ug/kg dw	<40000	<400
Endrin Aldehyde, ug/kg dw	<200000	<2000
Heptachlor, ug/kg dw	<20000	<200
Heptachlor epoxide, ug/kg dw	<40000	<400
Kepone, ug/kg dw	<100000	<1000
Methoxychlor, ug/kg dw	<800000	<8000
Toxaphene, ug/kg dw	7200000	59000
Aroclor-1016, ug/kg dw	<800000	<8000

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Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0891-1	NS-AS26-01	Client
0891-2	NS-AS26-02	

PARAMETER	0891-1	0891-2
Aroclor-1221, ug/kg dw	<800000	<8000
Aroclor-1232, ug/kg dw	<800000	<8000
Aroclor-1242, ug/kg dw	<800000	<8000
Aroclor-1248, ug/kg dw	<800000	<8000
Aroclor-1254, ug/kg dw	<800000	<8000
Aroclor-1260, ug/kg dw	<800000	<8000

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Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0891-1	NS-AS26-01	Client
0891-2	NS-AS26-02	

PARAMETER	0891-1	0891-2
Organophosphorus Pesticides		
Azinphos methyl, ug/kg dw	<200	<200
Bolstar (Sulprofos), ug/kg dw	<10	<10
Chlorpyrifos, ug/kg dw	<2.0	<2.0
Coumaphos, ug/kg dw	<100	<100
Demeton-O, ug/kg dw	<20	<20
Demeton-S, ug/kg dw	<20	<20
Diazinon, ug/kg dw	<10	<10
Dichlorvos, ug/kg dw	<20	<20
Disulfoton, ug/kg dw	<10	<10
Ethoprop, ug/kg dw	<2.0	<2.0
Fensulfothion, ug/kg dw	<100	<100
Fenthion, ug/kg dw	<2.0	<2.0
Merphos, ug/kg dw	<10	<10
Mevinphos, ug/kg dw	<2.0	<2.0
Naled, ug/kg dw	<20	<20
Methyl Parathion, ug/kg dw	<10	<10
Phorate, ug/kg dw	<2.0	<2.0
Ronnel, ug/kg dw	<2.0	<2.0
Stirophos (Tetrachlorvinphos), ug/kg dw	<10	<10
Tokuthion (Prothiofos), ug/kg dw	<10	<10

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Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0891-1	NS-AS26-01	Client
0891-2	NS-AS26-02	

PARAMETER	0891-1	0891-2
Chlorinated Herbicides (8150)		
2,4-D, ug/kg dw	<250	<50
2,4-DB, ug/kg dw	<250	<50
2,4,5-T, ug/kg dw	<150	<30
2,4,5-TP Silvex, ug/kg dw	<50	<10
Dalapon, ug/kg dw	<5000	<1000
Dicamba, ug/kg dw	<50	<10
Dichlorprop, ug/kg dw	<250	<50
Dinoseb, ug/kg dw	<250	<50
(4-Chloro-2-Methylphenoxy)-Acetic Acid, ug/kg dw	<5000	<1000
2-(4-Chloro-2-Methylphenoxy)-Propanoic Acid, ug/kg dw	<5000	<1000
Antimony, mg/kg dw	<2.7	<2.6
Arsenic, mg/kg dw	2.5	1.4
Beryllium, mg/kg dw	<0.27	<0.26
Cadmium, mg/kg dw	<0.27	<0.26
Chromium, mg/kg dw	7.8	1.2
Copper, mg/kg dw	1400	23
Lead, mg/kg dw	13	0.64
Mercury, mg/kg dw	<0.026	<0.025
Nickel, mg/kg dw	1.5	<0.52
Selenium, mg/kg dw	<1.1	<1.0
Silver, mg/kg dw	<0.55	<0.52

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Clearwater, Florida 33546

Project: Newberry

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
0891-1	NS-AS26-01	Client
0891-2	NS-AS26-02	

PARAMETER	0891-1	0891-2
Thallium, mg/kg dw	<1.1	<1.0
Zinc, mg/kg dw	32	1.2

Appendix B

Phase II Data

Thomas L. Stephens
Laboratory Director

James W. Andrews, Ph.D.
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Janette Davis Long
Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

TALLAHASSEE DIVISION
2820 Industrial Plaza Blvd. (32301)
P. O. Box 13056 • Tallahassee, FL 32317-3056
(904) 878-3994

LOG NO: 89-3929

Received: 27 MAY 89

Mr. Kurt Batsel
Camp Dresser & McKee
2100 Riveredge Parkway, Suite 400
Atlanta, GA 30328

Project: Newberry Air Strip Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
3929-1	NS-MW07-02	Client
3929-2	NS-MW08-02	
3929-3	NS-MW09-02	
3929-4	NS-MW10-02	
3929-5	Equipment Blank	

PARAMETER	3929-1	3929-2	3929-3	3929-4	3929-5
Alpha-BHC, ug/l	0.020	0.013	<0.010	0.015	<0.010
Beta-BHC, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010
Gamma-BHC, ug/l	<0.010	<0.010	<0.010	<0.010	<0.010

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TALLAHASSEE DIVISION

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LOG NO: 89-3929

Received: 27 MAY 89

Mr. Kurt Batsel
Camp Dresser & McKee
2100 Riveredge Parkway, Suite 400
Atlanta, GA 30328

Project: Newberry Air Strip Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-6	NSAS 27-01	Client
3929-7	NSAS 30-01	
3929-8	NSAS 28-01	
3929-9	NSAS 29-01	
3929-10	NSAS 33-01	

PARAMETER	3929-6	3929-7	3929-8	3929-9	3929-10
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<20	<10	<20	<200	<5.0
alpha-BHC, ug/kg dw	<20	<10	<20	<200	<5.0
beta-BHC, ug/kg dw	<20	<10	<20	<200	<5.0
gamma-BHC, ug/kg dw	<20	<10	<20	<200	<5.0
delta-BHC, ug/kg dw	<20	<10	<20	<200	<5.0
Chlordane, ug/kg dw	<200	<100	<200	<2000	<50
4,4'-DDD, ug/kg dw	<40	<20	<40	<400	<10
4,4'-DDE, ug/kg dw	<40	<20	<40	<400	<10
4,4'-DDT, ug/kg dw	<100	<50	<100	<1000	<25
Dieldrin, ug/kg dw	<40	<20	<40	<400	<10
Endosulfan I, ug/kg dw	73	<20	<40	<400	<10
Endosulfan II, ug/kg dw	<100	<50	<100	<1000	<25
Endosulfan sulfate, ug/kg dw	<160	<80	<160	<1600	<40
Endrin, ug/kg dw	<40	<20	<40	<400	<10
Endrin Aldehyde, ug/kg dw	<200	<100	<200	<2000	<50
Heptachlor, ug/kg dw	<20	<10	<20	<200	<5.0
Heptachlor epoxide, ug/kg dw	<40	<20	<40	<400	<10
Kepone, ug/kg dw	<100	<50	<100	<1000	<25

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Project: Newberry Air Strip Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-6	NSAS 27-01	Client
3929-7	NSAS 30-01	
3929-8	NSAS 28-01	
3929-9	NSAS 29-01	
3929-10	NSAS 33-01	

PARAMETER	3929-6	3929-7	3929-8	3929-9	3929-10
Methoxychlor, ug/kg dw	<80	<400	<80	<8000	<200
Toxaphene, ug/kg dw	<80	2500	6000	21000	530
Aroclor-1016, ug/kg dw	<80	<400	<80	<800	<200
Aroclor-1221, ug/kg dw	<80	<400	<80	<800	<200
Aroclor-1232, ug/kg dw	<80	<400	<80	<800	<200
Aroclor-1242, ug/kg dw	<80	<400	<80	<800	<200
Aroclor-1248, ug/kg dw	<80	<400	<80	<800	<200
Aroclor-1254, ug/kg dw	<80	<400	<80	<800	<200
Aroclor-1260, ug/kg dw	<80	<400	<80	<800	<200

Method: EPA 40 CFR Part 136
HRS Certification #'s:81291,87279,E81005,E87502

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2100 Riveredge Parkway, Suite 400
Atlanta, GA 30328

Project: Newberry Air Strip Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-11	NSAS 34-01	Client
3929-12	NSAS 35-01	
3929-13	NSAS 35-03	
3929-14	NSAS 35-04	
3929-15	NSAS 39-01	

PARAMETER	3929-11	3929-12	3929-13	3929-14	3929-15
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<10	<20	<2.0	<2.0	<10
alpha-BHC, ug/kg dw	<10	<20	<2.0	<2.0	<10
beta-BHC, ug/kg dw	<10	<20	<2.0	<2.0	<10
gamma-BHC, ug/kg dw	<10	<20	<2.0	<2.0	<10
delta-BHC, ug/kg dw	<10	<20	<2.0	<2.0	<10
Chlordane, ug/kg dw	<100	<200	<20	<20	<100
4,4'-DDD, ug/kg dw	<20	<40	<4.0	<4.0	<20
4,4'-DDE, ug/kg dw	<20	<40	<4.0	<4.0	<20
4,4'-DDT, ug/kg dw	<50	<100	<10	<10	<50
Dieldrin, ug/kg dw	<20	<40	<4.0	<4.0	<20
Endosulfan I, ug/kg dw	<20	<40	<4.0	<4.0	<20
Endosulfan II, ug/kg dw	<50	<100	<10	<10	<50
Endosulfan sulfate, ug/kg dw	<80	<160	<16	<16	<80
Endrin, ug/kg dw	<20	<40	<4.0	<4.0	<20
Endrin Aldehyde, ug/kg dw	<100	<200	<20	<20	<100
Heptachlor, ug/kg dw	<10	<20	<2.0	<2.0	<10
Heptachlor epoxide, ug/kg dw	<20	<40	<4.0	<4.0	<20
Kepone, ug/kg dw	<50	<100	<10	<10	<50

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-11	NSAS 34-01	Client
3929-12	NSAS 35-01	
3929-13	NSAS 35-03	
3929-14	NSAS 35-04	
3929-15	NSAS 39-01	

PARAMETER	3929-11	3929-12	3929-13	3929-14	3929-15
Methoxychlor, ug/kg dw	<400	<800	<80	<80	<400
Toxaphene, ug/kg dw	890	3000	<160	270	1700
Aroclor-1016, ug/kg dw	<400	<800	<80	<80	<400
Aroclor-1221, ug/kg dw	<400	<800	<80	<80	<400
Aroclor-1232, ug/kg dw	<400	<800	<80	<80	<400
Aroclor-1242, ug/kg dw	<400	<800	<80	<80	<400
Aroclor-1248, ug/kg dw	<400	<800	<80	<80	<400
Aroclor-1254, ug/kg dw	<400	<800	<80	<80	<400
Aroclor-1260, ug/kg dw	<400	<800	<80	<80	<400

Method: EPA 40 CFR Part 136
HRS Certification #'s:81291,87279,E81005,E87502

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-16	NSAS 40-01	Client
3929-17	NSAS 42-01	
3929-18	NSAS 43-01	
3929-19	NSAS 41-01	
3929-20	NSAS 44-01	

PARAMETER	3929-16	3929-17	3929-18	3929-19	3929-20
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<100	<500	<500	<1000	<1000
alpha-BHC, ug/kg dw	<100	<500	<500	<1000	<1000
beta-BHC, ug/kg dw	<100	<500	<500	<1000	<1000
gamma-BHC, ug/kg dw	<100	<500	<500	<1000	<1000
delta-BHC, ug/kg dw	<100	<500	<500	<1000	<1000
Chlordane, ug/kg dw	<1000	<5000	<5000	<10000	<10000
4,4'-DDD, ug/kg dw	<200	<1000	<1000	<2000	<2000
4,4'-DDE, ug/kg dw	<200	<1000	<1000	<2000	<2000
4,4'-DDT, ug/kg dw	<500	<2500	<2500	<5000	<5000
Dieldrin, ug/kg dw	<200	<1000	<1000	<2000	<2000
Endosulfan I, ug/kg dw	<200	<1000	<1000	<2000	<2000
Endosulfan II, ug/kg dw	<500	<2500	<2500	<5000	<5000
Endosulfan sulfate, ug/kg dw	<800	<4000	<4000	<8000	<8000
Endrin, ug/kg dw	<200	<1000	<1000	<2000	<2000
Endrin Aldehyde, ug/kg dw	<1000	<5000	<5000	<10000	<10000
Heptachlor, ug/kg dw	<100	<500	<500	<1000	<1000
Heptachlor epoxide, ug/kg dw	<200	<1000	<1000	<2000	<2000
Kepone, ug/kg dw	<500	<2500	<2500	<5000	<5000

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LOG NO: 89-3929

Received: 27 MAY 89

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Project: Newberry Air Strip Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-16	NSAS 40-01	Client
3929-17	NSAS 42-01	
3929-18	NSAS 43-01	
3929-19	NSAS 41-01	
3929-20	NSAS 44-01	

PARAMETER	3929-16	3929-17	3929-18	3929-19	3929-20
Methoxychlor, ug/kg dw	<4000	<20000	<20000	<40000	<40000
Toxaphene, ug/kg dw	12000	53000	97000	150000	210000
Aroclor-1016, ug/kg dw	<4000	<20000	<20000	<40000	<40000
Aroclor-1221, ug/kg dw	<4000	<20000	<20000	<40000	<40000
Aroclor-1232, ug/kg dw	<4000	<20000	<20000	<40000	<40000
Aroclor-1242, ug/kg dw	<4000	<20000	<20000	<40000	<40000
Aroclor-1248, ug/kg dw	<4000	<20000	<20000	<40000	<40000
Aroclor-1254, ug/kg dw	<4000	<20000	<20000	<40000	<40000
Aroclor-1260, ug/kg dw	<4000	<20000	<20000	<40000	<40000

Method: EPA 40 CFR Part 136
HRS Certification #'s:81291,87279,E81005,E87502

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-21	NSAS 31-01	Client
3929-22	NSAS 32-03	
3929-23	NSAS 32-04	
3929-24	NSAS 36-02	
3929-25	NSAS 47-01	

PARAMETER	3929-21	3929-22	3929-23	3929-24	3929-25
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<200	<2.0	<2.0	<50	<250
alpha-BHC, ug/kg dw	<200	<2.0	<2.0	<50	<250
beta-BHC, ug/kg dw	<200	<2.0	<2.0	<50	<250
gamma-BHC, ug/kg dw	<200	<2.0	<2.0	<50	<250
delta-BHC, ug/kg dw	<200	<2.0	<2.0	<50	<250
Chlordane, ug/kg dw	<2000	<20	<20	<500	<2500
4,4'-DDD, ug/kg dw	<400	<4.0	<4.0	<100	<500
4,4'-DDE, ug/kg dw	<400	<4.0	<4.0	<100	<500
4,4'-DDT, ug/kg dw	<1000	<10	<10	<250	<1250
Dieldrin, ug/kg dw	<400	<4.0	<4.0	<100	<500
Endosulfan I, ug/kg dw	<400	<4.0	<4.0	<100	<500
Endosulfan II, ug/kg dw	<1000	<10	<10	<250	<1250
Endosulfan sulfate, ug/kg dw	<1600	<16	<16	<400	<2000
Endrin, ug/kg dw	<400	<4.0	<4.0	<100	<500
Endrin Aldehyde, ug/kg dw	<2000	<20	<20	<500	<2500
Heptachlor, ug/kg dw	<200	<2.0	<2.0	<50	<250
Heptachlor epoxide, ug/kg dw	<400	<4.0	<4.0	<100	<500
Kepone, ug/kg dw	<1000	<10	<10	<250	<1250

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-21	NSAS 31-01	Client
3929-22	NSAS 32-03	
3929-23	NSAS 32-04	
3929-24	NSAS 36-02	
3929-25	NSAS 47-01	

PARAMETER	3929-21	3929-22	3929-23	3929-24	3929-25
Methoxychlor, ug/kg dw	<8000	<80	<80	<2000	<10000
Toxaphene, ug/kg dw	19000	<160	340	10000	66000
Aroclor-1016, ug/kg dw	<8000	<80	<80	<2000	<10000
Aroclor-1221, ug/kg dw	<8000	<80	<80	<2000	<10000
Aroclor-1232, ug/kg dw	<8000	<80	<80	<2000	<10000
Aroclor-1242, ug/kg dw	<8000	<80	<80	<2000	<10000
Aroclor-1248, ug/kg dw	<8000	<80	<80	<2000	<10000
Aroclor-1254, ug/kg dw	<8000	<80	<80	<2000	<10000
Aroclor-1260, ug/kg dw	<8000	<80	<80	<2000	<10000

Method: EPA 40 CFR Part 136
HRS Certification #'s:81291,87279,E81005,E87502

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-26	NSAS 47-02	Client
3929-27	NSAS 45-01	
3929-28	NSAS 45-03	
3929-29	NSAS 45-04	
3929-30	NSAS 48-01	

PARAMETER	3929-26	3929-27	3929-28	3929-29	3929-30
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<10	<500	<2.0	<2.0	<1000
alpha-BHC, ug/kg dw	<10	<500	<2.0	<2.0	<1000
beta-BHC, ug/kg dw	<10	<500	<2.0	<2.0	<1000
gamma-BHC, ug/kg dw	<10	<500	<2.0	<2.0	<1000
delta-BHC, ug/kg dw	<10	<500	<2.0	<2.0	<1000
Chlordane, ug/kg dw	<100	<5000	<20	<20	<10000
4,4'-DDD, ug/kg dw	<20	<1000	<4.0	<4.0	<2000
4,4'-DDE, ug/kg dw	<20	<1000	<4.0	<4.0	<2000
4,4'-DDT, ug/kg dw	<50	<2500	<10	<10	<5000
Dieldrin, ug/kg dw	<20	<1000	<4.0	<4.0	<2000
Endosulfan I, ug/kg dw	<20	<1000	<4.0	<4.0	<2000
Endosulfan II, ug/kg dw	<50	<2500	<10	<10	<5000
Endosulfan sulfate, ug/kg dw	<80	<4000	<16	<16	<8000
Endrin, ug/kg dw	<20	<1000	<4.0	<4.0	<2000
Endrin Aldehyde, ug/kg dw	<100	<5000	<20	<20	<10000
Heptachlor, ug/kg dw	<10	<500	<2.0	<2.0	<1000
Heptachlor epoxide, ug/kg dw	<20	<1000	<4.0	<4.0	<2000
Kepone, ug/kg dw	<50	<2500	<10	<10	<5000

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-26	NSAS 47-02	Client
3929-27	NSAS 45-01	
3929-28	NSAS 45-03	
3929-29	NSAS 45-04	
3929-30	NSAS 48-01	

PARAMETER	3929-26	3929-27	3929-28	3929-29	3929-30
Methoxychlor, ug/kg dw	<400	<20000	<80	<80	<40000
Toxaphene, ug/kg dw	2200	61000	<160	<160	120000
Aroclor-1016, ug/kg dw	<400	<20000	<80	<80	<40000
Aroclor-1221, ug/kg dw	<400	<20000	<80	<80	<40000
Aroclor-1232, ug/kg dw	<400	<20000	<80	<80	<40000
Aroclor-1242, ug/kg dw	<400	<20000	<80	<80	<40000
Aroclor-1248, ug/kg dw	<400	<20000	<80	<80	<40000
Aroclor-1254, ug/kg dw	<400	<20000	<80	<80	<40000
Aroclor-1260, ug/kg dw	<400	<20000	<80	<80	<40000

Method: EPA 40 CFR Part 136
HRS Certification #'s:81291,87279,E81005,E87502

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-31	NSAS 48-02	Client
3929-32	NSAS 50-02	
3929-33	NSAS 49-03	
3929-34	NSAS 49-04	
3929-35	NSAS 49-05	

PARAMETER	3929-31	3929-32	3929-33	3929-34	3929-35
Cl-Pesticides/PCB (8080)					
Aldrin, ug/l	<50	<50	<1000	<10	<5.0
alpha-BHC, ug/l	<50	<50	<1000	<10	<5.0
beta-BHC, ug/l	<50	<50	<1000	<10	<5.0
gamma-BHC, ug/l	<50	<50	1100	68	<5.0
delta-BHC, ug/l	<50	<50	<1000	<10	<5.0
Chlordane, ug/l	<500	<500	<10000	<100	<50
4,4'-DDD, ug/l	<100	<100	<2000	<20	<10
4,4'-DDE, ug/l	<100	<100	<2000	<20	<10
4,4'-DDT, ug/l	<250	<250	<5000	<50	<25
Dieldrin, ug/l	<100	<100	<2000	<20	<10
Endosulfan I, ug/l	<100	<100	<2000	<20	30
Endosulfan II, ug/l	<250	<250	<5000	<50	<25
Endosulfan sulfate, ug/l	<400	<400	<8000	<80	<40
Endrin, ug/l	<100	<100	<2000	<20	<10
Endrin Aldehyde, ug/l	<500	<500	<10000	<100	<50
Heptachlor, ug/l	<50	<50	<1000	<10	<5.0
Heptachlor epoxide, ug/l	<100	<100	<2000	<20	<10
Kepone, ug/l	<250	<250	<5000	<50	<25

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-31	NSAS 48-02	Client
3929-32	NSAS 50-02	
3929-33	NSAS 49-03	
3929-34	NSAS 49-04	
3929-35	NSAS 49-05	

PARAMETER	3929-31	3929-32	3929-33	3929-34	3929-35
Methoxychlor, ug/l	<2000	<2000	<40000	<800	<200
Toxaphene, ug/l	9100	5400	87000	1500	660
Aroclor-1016, ug/l	<2000	<2000	<40000	<400	<200
Aroclor-1221, ug/l	<2000	<2000	<40000	<400	<200
Aroclor-1232, ug/l	<2000	<2000	<40000	<400	<200
Aroclor-1242, ug/l	<2000	<2000	<40000	<400	<200
Aroclor-1248, ug/l	<2000	<2000	<40000	<400	<200
Aroclor-1254, ug/l	<2000	<2000	<40000	<400	<200
Aroclor-1260, ug/l	<2000	<2000	<40000	<400	<200

Method: EPA 40 CFR Part 136
HRS Certification #'s:81291,87279,E81005,E87502

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-36	NSAS 46-01	Client
3929-37	NSAS 46-04	
3929-38	NSAS 46-03	

PARAMETER	3929-36	3929-37	3929-38
Cl-Pesticides/PCB (8080)			
Aldrin, ug/kg dw	<500	<2.0	<5.0
alpha-BHC, ug/kg dw	<500	<2.0	<5.0
beta-BHC, ug/kg dw	<500	<2.0	<5.0
gamma-BHC, ug/kg dw	<500	<2.0	<5.0
delta-BHC, ug/kg dw	<500	<2.0	<5.0
Chlordane, ug/kg dw	<5000	<20	<50
4,4'-DDD, ug/kg dw	<1000	<4.0	<10
4,4'-DDE, ug/kg dw	<1000	<4.0	<10
4,4'-DDT, ug/kg dw	<2500	<10	<25
Dieldrin, ug/kg dw	<1000	<4.0	<10
Endosulfan I, ug/kg dw	<1000	<4.0	<10
Endosulfan II, ug/kg dw	<2500	<10	<25
Endosulfan sulfate, ug/kg dw	<4000	<16	<40
Endrin, ug/kg dw	<1000	<4.0	<10
Endrin Aldehyde, ug/kg dw	<5000	<20	<50
Heptachlor, ug/kg dw	<500	<2.0	<5.0
Heptachlor epoxide, ug/kg dw	<1000	<4.0	<10
Kepone, ug/kg dw	<2500	<10	<25
Methoxychlor, ug/kg dw	<20000	<80	<200
Toxaphene, ug/kg dw	62000	240	700

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
3929-36	NSAS 46-01	Client
3929-37	NSAS 46-04	
3929-38	NSAS 46-03	

PARAMETER	3929-36	3929-37	3929-38
Aroclor-1016, ug/kg dw	<20000	<80	<200
Aroclor-1221, ug/kg dw	<20000	<80	<200
Aroclor-1232, ug/kg dw	<20000	<80	<200
Aroclor-1242, ug/kg dw	<20000	<80	<200
Aroclor-1248, ug/kg dw	<20000	<80	<200
Aroclor-1254, ug/kg dw	<20000	<80	<200
Aroclor-1260, ug/kg dw	<20000	<80	<200

Method: EPA 40 CFR Part 136
HRS Certification #'s:81291,87279,E81005,E87502

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
3929-39	Equipment Blank	Client

PARAMETER	3929-39
Cl-Pesticides/PCB (8080)	
Aldrin, ug/l	<0.010
alpha-BHC, ug/l	<0.010
beta-BHC, ug/l	<0.010
gamma-BHC, ug/l	<0.010
delta-BHC, ug/l	<0.010
Chlordane, ug/l	<0.10
4,4'-DDD, ug/l	<0.020
4,4'-DDE, ug/l	<0.020
4,4'-DDT, ug/l	<0.050
Dieldrin, ug/l	<0.020
Endosulfan I, ug/l	<0.020
Endosulfan II, ug/l	<0.050
Endosulfan sulfate, ug/l	<0.10
Endrin, ug/l	<0.020
Endrin Aldehyde, ug/l	<0.10
Heptachlor, ug/l	<0.010
Heptachlor epoxide, ug/l	<0.020
Kepone, ug/l	<0.050
Methoxychlor, ug/l	<0.50
Toxaphene, ug/l	<1.0
Aroclor-1016, ug/l	<0.50
Aroclor-1221, ug/l	<0.50
Aroclor-1232, ug/l	<0.50
Aroclor-1242, ug/l	<0.50
Aroclor-1248, ug/l	<0.50
Aroclor-1254, ug/l	<0.50
Aroclor-1260, ug/l	<0.50

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Appendix C

Well Logs and Descriptions

GEOLOGIC LOG

Newberry Contamination Assessment
Airstrip Site
Monitor Well No. 6

Logged By: Kevin Finder, CDM
Date: 3/21/89
Sampling Method: Split Spoon

Drilling Contractor: Layne Central
Driller: R. Newby
Method: Hollow Stem Auger

Depth in Feet Below Land Surface (BLS)	Lithology
0.0 - 2.0	Clayey Sand, dusky brown (5 YR 2/2) medium grained, subrounded, Mod. sorted
5.0 - 7.0	Sandy Clay, light brown (5 YR 5/6) medium grained, subrounded, mod. sorted-top one foot. Bottom one foot is same but color change to light brown (5 YR 6/4) with dark yellowish orange streaks
10.0 - 12.0	Same As Above - top six inches. Middle one foot is same with more saud. Bottom six inches is clay, greenish pink in color (5 R 8/2).
15.0 - 17.0	Sandy Clay, yellowish gray (5 R 7/2) medium grained, subrounded, mod. sorted.
20.0 - 22.0	Same As Above, with streaks of light brown (5 YR 5/6). Bottom Two inches contain limestone rubble, grayish green (5 G 5/2)

Geologic Log
Airstrip Monitor Well No. 6 (continued)

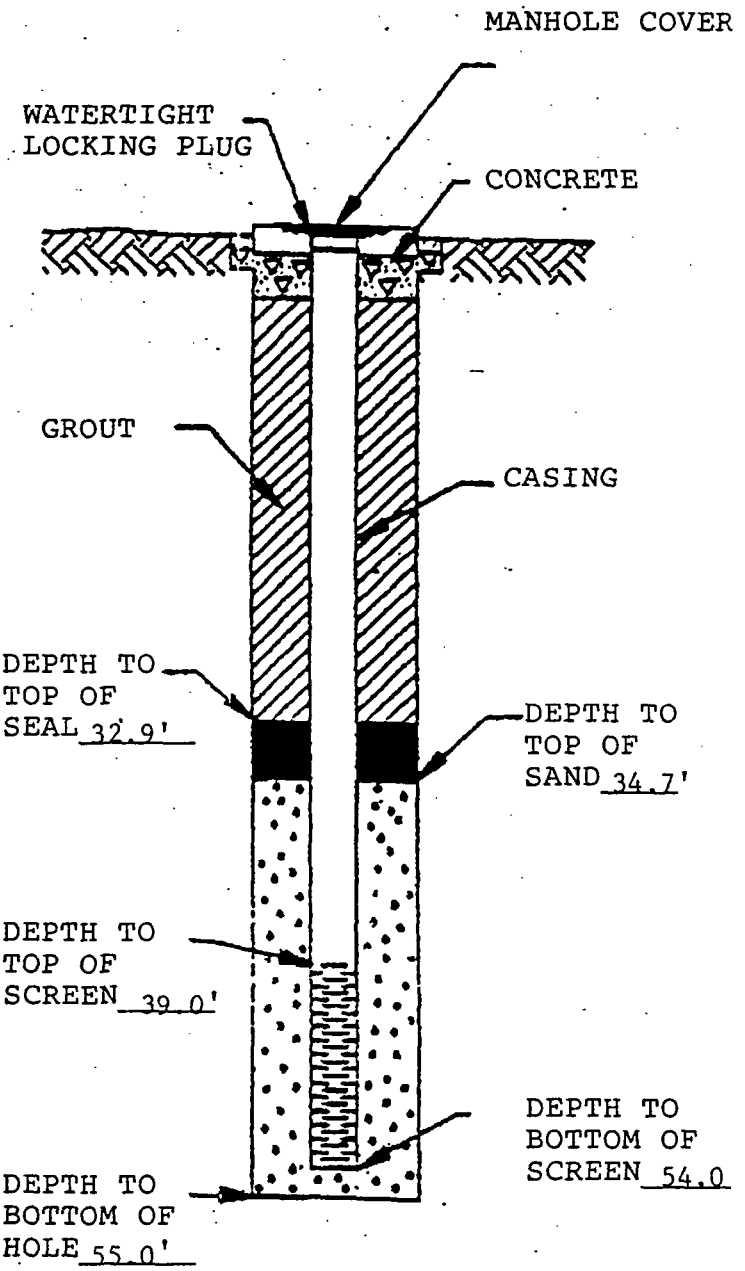
Depth in Feet Below Land Surface (BLS)	Lithology
25.0 - 27.0	Sandy Clay, pale yellowish brown (10 YR 6/2), medium grained, subangular to subrounded, mod. sorted.
30.0 - 32.0	Same As Above, yellowish gray (5 Y 7/2). Bottom six inches change to moderate yellowish brown (10 YR 5/4). Note: Sand was encountered at about 33 feet BLS
35.0 - 37.0	Sand, grayish dusky yellow (5 Y 7/4), fine to medium grained subrounded mod. sorted. Damp bottom six inches . Clayey Sand very pale green (10 G 8/2) and light brown (5 YR 5/6).
40.0 - 42.0	Sandy Clay, very pale green (10 G 8/2), fine to medium grained, subrounded, mod. sorted. Damp. Note: Water Table at About 43 feet BLS.
45.0 - 47.0	Clayey Sand, light brown 95 YR 6/4), fine grained, subrounded, mod. sorted. Wet. At one foot, color changes to very pale orange (10 YR 8/2), medium grained Limestone gravel in bottom of sampler.
50.0 - 52.0	Sand Limestone Gravel, grayish yellow 95 Y 8/4), med. to coarse grained sand. Wet Gravel is one inch and smaller. Note: This was referred to as "lime mud" by Loyne.
54.0	Same As Above.

End of Borehole at about 54′ BLS

PROJECT NAME: Newberry C.A.
LOCATION: Newberry, Florida
WELL NUMBER: MW-6
DATE DRILLED: 3/21-22/89
LAND SURFACE: 80.05 AMSL(Approx)
TOTAL DEPTH: 54.0 ft
DRILLING METHOD: Hollow Stem Auger
HOLE DIAMETER: 12 inches
CASING DIAMETER: 4 inches - PVC
SCREEN LENGTH: 15 feet
SLOT SIZE: .020 inches
BACKFILL: Cement Bentonite Grout

SEAL: Granular hole plug

WELL CONSTRUCTION

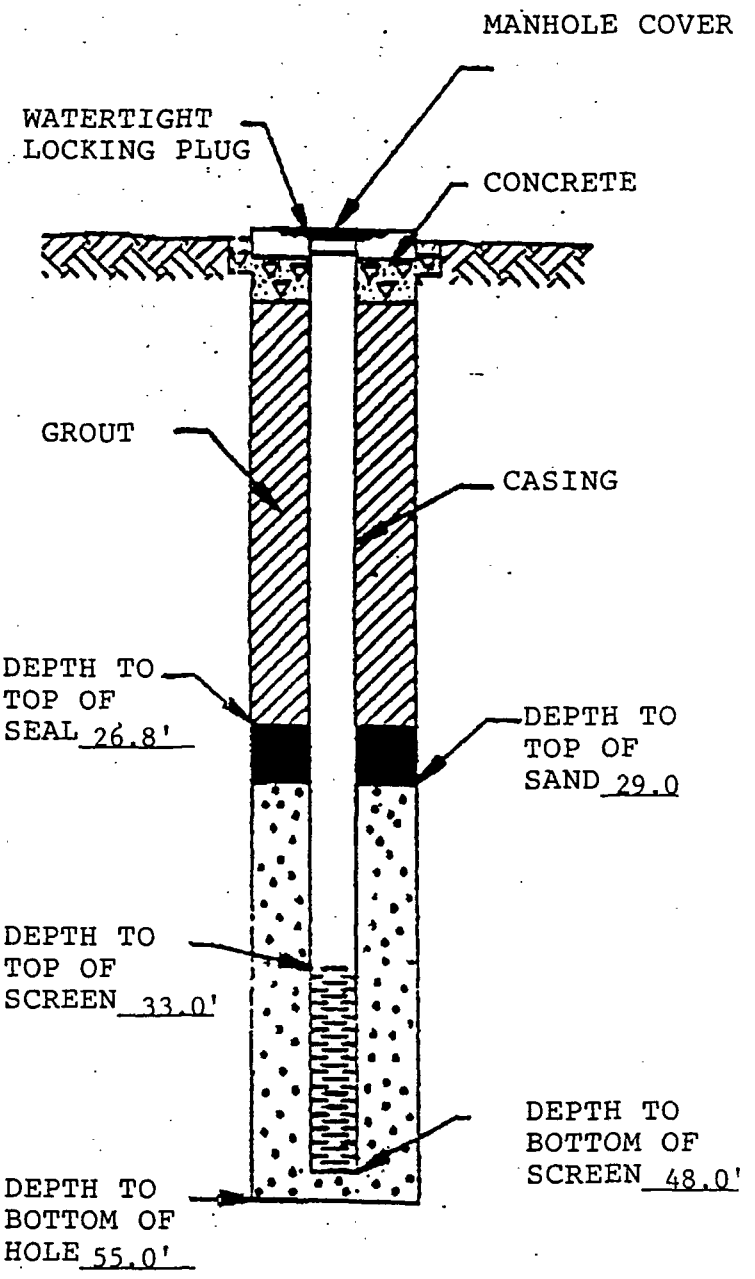


Camp Dresser & McKee, Inc.
Well Construction Detalis for MW-6
Newberry Airstrip/Landfill Site
Newberry, Florida

FIGURE NO.
C-1

PROJECT NAME: Newberry C.A.
LOCATION: Newberry, Florida
WELL NUMBER: MW-7
DATE DRILLED: 03/23-24/89
LAND SURFACE: 80.18 AMSL (approx.)
TOTAL DEPTH: 48.0 Feet
DRILLING METHOD: Hollow Stem Auger
HOLE DIAMETER: 12 inches
CASING DIAMETER: 4 inches - PVC
SCREEN LENGTH: 15 feet
SLOT SIZE: .020 inches
BACKFILL: Cement Bentonite Grout
SEAL: Granular Hole Plug

WELL CONSTRUCTION



Camp Dresser & McKee, Inc.
Well Construction Details for MW-7
Newberry Airstrip/Landfill Site
Newberry, Florida

FIGURE NO.
C-2

GEOLOGIC LOG

Newberry Contamination Assessment
Airstrip Site
Monitor Well No. 8

Logged By: Kevin Finder, CDM
Date: 3/25/89
Sampling Method: Split Spoon

Drilling Contractor: Layne Central
Driller: R. Newby
Method: Hollow Stem Auger

Depth in Feet Below Land Surface (BLS)	Lithology
0.0-2.0	Sandy Clay, light brown (5 YR 5/6), medium grained, subrounded mod. sorted. Note: Poor Recovery
5.0-7.0	Clay, moderate yellowish brown (10 YR 5/4). Note: Poor Recovery
10.0-12.0	Limestone, very pale orange (10 YR 8/2), very friable, crumbly. Note: Poor Recovery
15.0-17.0	Sandy Clay, light brown (5 YR 6/4), medium grained, subrounded, mod. sorted. Note: Poor Recovery
20.0-22.0	Sandy Clay, litht brown (5 YR 5/6), medium graned, subangular to subrounded, mod. sorted.
25.0 - 27.0	Same As Above. Brown Clay in drive shoe.

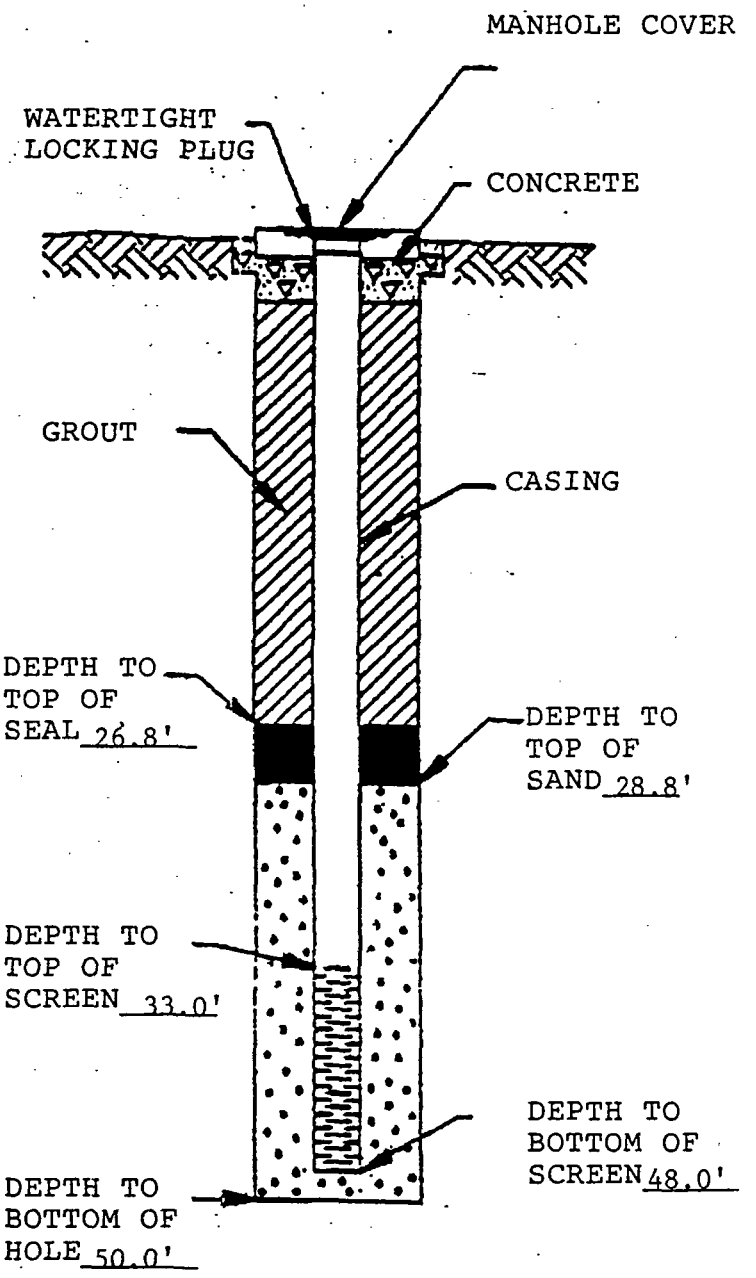
Geologic Log
Airstrip Monitor Well No. 8 (continued)

Depth in Feet Below Land Surface (BLS)	Lithology
30.0 - 32.0	Sandy Clay, moderate yellowish brown (10 YR 5/4), medium grained, subrounded, mod. sorted. Contains limestone fragments & organic sand stringers. Bottom one foot is Limestone, moderate orange pink (5 YR 8/4), very friable, crumbly.
35.0 - 37.0	No Recovery - void. Drive shoe had limestone, very pale orange (10 YR 8/2).
40.0 - 42.0	Limestone, very pale orange (10 YR 8/2) very friable, crumbly wet Note: Entire sample was wet. Water table at about 38 feet BIS, same as MW7.
45.0 - 47.0	Same As Above. Bottom eight inches color change to moderate orange pink (5 YR 8/4).wet
5.0	Same As Above. Bottom one inch color change to grayish orange pink (10 R 8/2). wet

PROJECT NAME: Newberry C.A.
LOCATION: Newberry, Florida
WELL NUMBER: MW-8
DATE DRILLED: 03/25-27/89
LAND SURFACE: 80.95 AMSL (Approx)
TOTAL DEPTH: 48.0 Feet
DRILLING METHOD: Hollow Stem Auger
HOLE DIAMETER: 12 inches
CASING DIAMETER: 4 inches - PVC
SCREEN LENGTH: 15 Feet
SLOT SIZE: .020 inches
BACKFILL: Cement-Bentonite Grout

SEAL: Granular Hole Plug

WELL CONSTRUCTION



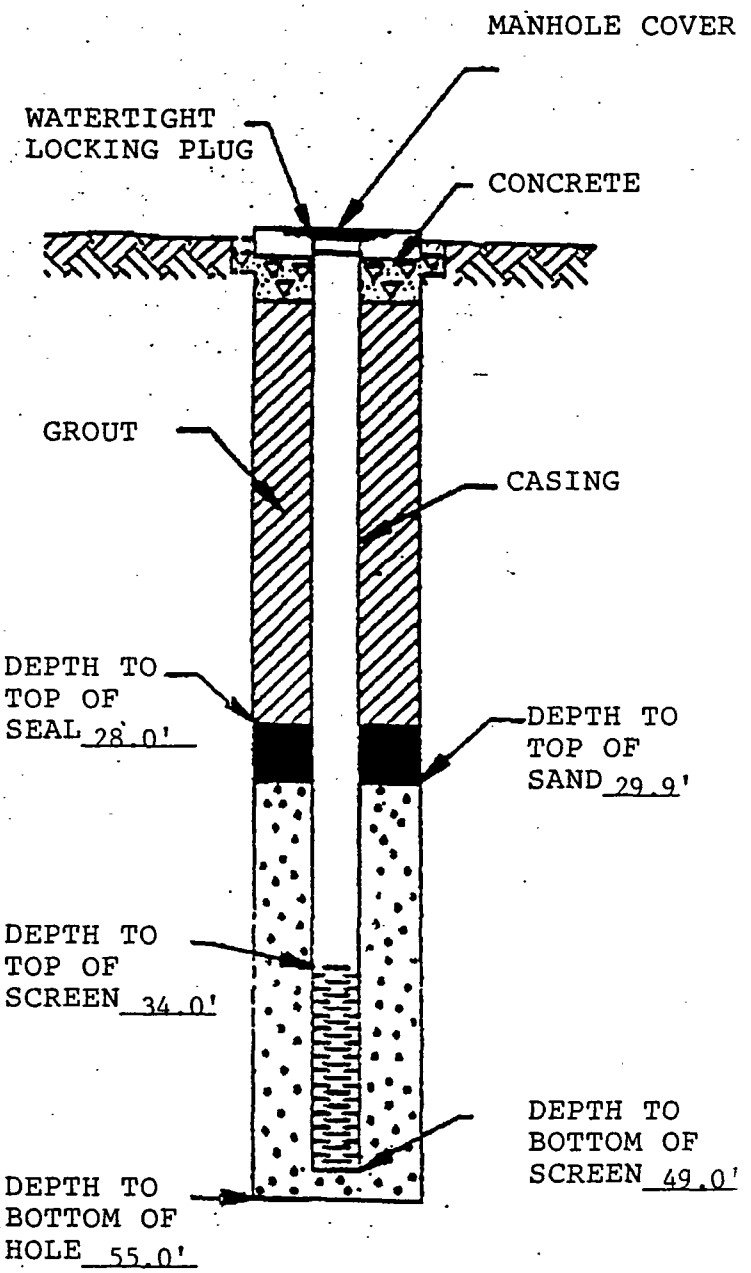
Camp Dresser & McKee, Inc.
Well Construction Details for MW-8
Newberry Airstrip/Landfill Sits
Newberry, Florida

FIGURE NO.
C-3

PROJECT NAME: Newberry C.A.
LOCATION: Newberry, Florida
WELL NUMBER: MW-9
DATE DRILLED: 03/28/89
LAND SURFACE: 79.02
TOTAL DEPTH: 49.0 Feet
DRILLING METHOD: Hollow Stem Auger
HOLE DIAMETER: 12 Inches
CASING DIAMETER: 4 inches - PVC
SCREEN LENGTH: 15 Feet
SLOT SIZE: .020 inches
BACKFILL: Cement-Bentonite Grout

SEAL: Granular Hole Plug

WELL CONSTRUCTION



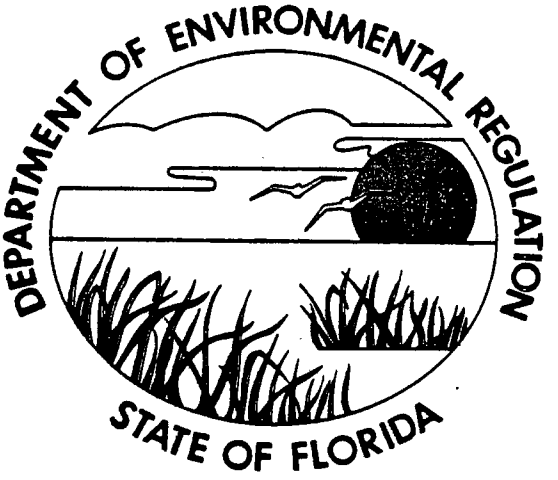
Camp Dresser & McKee, Inc.
Well Construction Details for MW-9
Newberry Airstrip/Landfill Site
Newberry, Florida

FIGURE NO.
C-4

REMEDIAL ACTION REPORT

for the

NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA



FLORIDA DEPARTMENT of ENVIRONMENTAL REGULATION
BUREAU OF WASTE CLEANUP

HWC FILE COPY
Site # or Name: 46
Category: _____
Title: _____

DECEMBER 1989

CDM

environmental engineers, scientists, planners, & management consultants

CAMP DRESSER & McKEE INC.

2100 RiverEdge Parkway, Suite 400
Atlanta, Georgia 30328
404 952-8643

November 9, 1989

Mr. Joseph Applegate
Florida Department of
Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399

RE: Newberry Airstrip Summary of Soil Removal Activities

Dear Mr. Applegate:

Camp Dresser & McKee Inc. (CDM) is pleased to submit this letter report which summarizes the soil removal activities at the Newberry Airstrip in Newberry, Florida. This report has been prepared as the final report on Task Assignment HW95-5B issued by the Florida Department of Environmental Regulation (FDER).

SUMMARY

This report contains a summary of daily activities, laboratory results, and a map depicting the areas excavated. Site work started on August 12, 1989, and was completed on August 25, 1989. A total of 23 soil samples were taken to verify the extent of soil contamination and to confirm the effectiveness of the excavation activities. Excavation of the six areas of contamination identified in CDM's August 1989 soil removal plan for the Newberry Airstrip was conducted until confirmation soil samples revealed toxaphene levels below 50 mg/Kg. **Figure 1** shows the areas targeted for excavation in CDM's soil removal plan. Proposed locations for confirmational soil sampling are also shown in Figure 1.

DESCRIPTION OF DAILY OVERSIGHT ACTIVITIES

CDM provided full-time staff to observe activities conducted during the Newberry Soil Removal Project. Detailed notes were collected describing daily activities, and these observations are described below.

Saturday, August 12, 1989

Site work was performed with Joseph Applegate, FDER project manager, overseeing the activities. The remedial contractor, Hazards, Inc., cut the grass onsite, created a berm on the concrete pad north of Area 6, and applied a water sealer to the concrete surface. This became the decontamination pad.

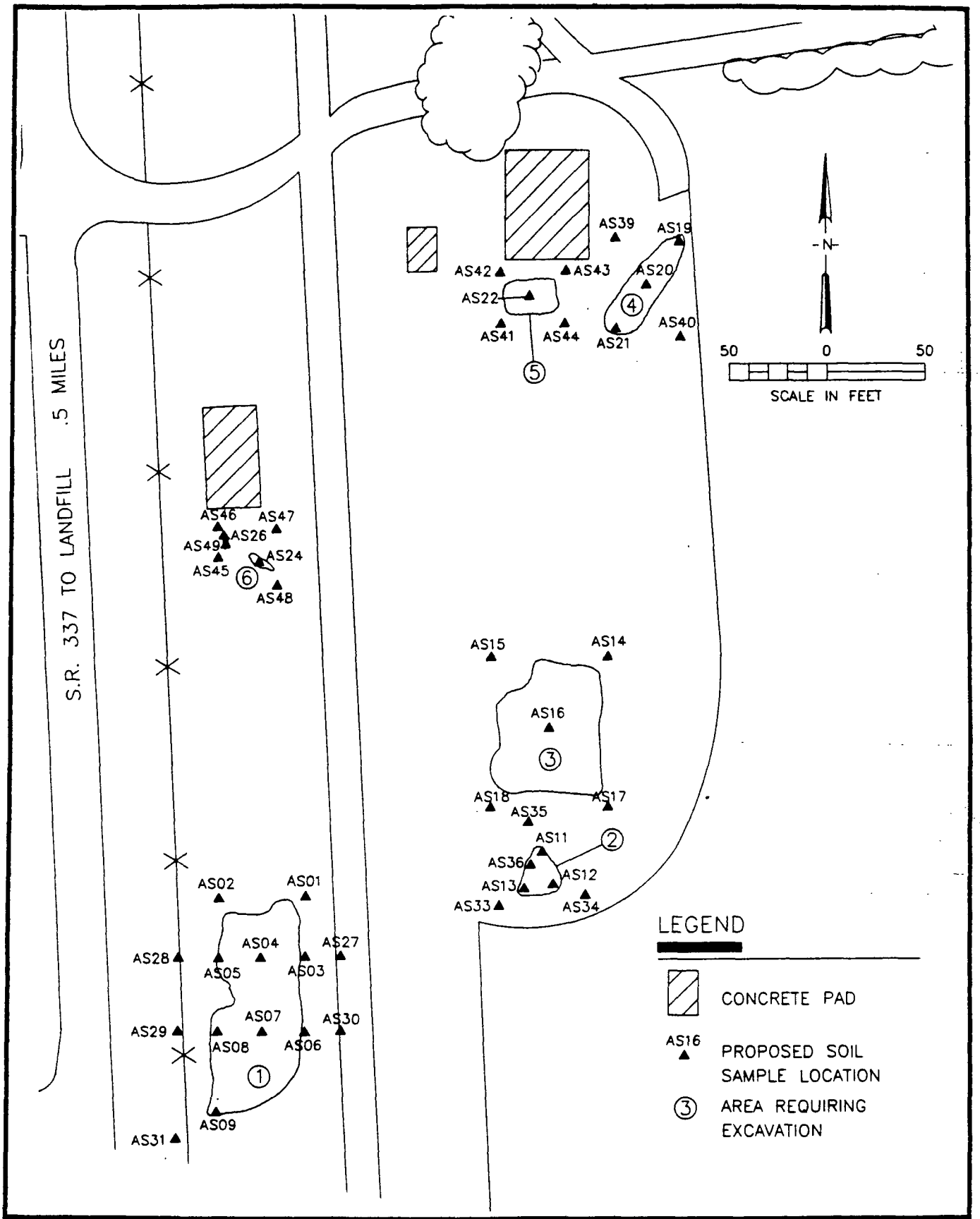
A geophysical company, Geohazards, conducted a geophysical survey of the site to define potential sinkhole hazards. They staked out areas of greatest risk for sinkhole failure to ensure the safety of personnel and equipment during excavation. The largest area extended in a east-southeast direction for 100 feet from the small sinkhole onsite.

Bureau of Waste Cleanup

647/16

NOV 13 1989

Hazardous Waste
Cleanup Section



CAMP DRESSER & McKEE INC.

PROPOSED SOIL EXCAVATION AREAS & CONFIRMATIONAL SAMPLING LOCATIONS

NEWBERRY AIRSTRIP/LANDFILL SITE

NEWBERRY, FLORIDA

FIGURE NO. 1

Monday, August 14, 1989

Excavation activities began. A track-hoe and a bucket fixed with 1-foot steel teeth were used. Area 1 was excavated to a depth of approximately 1 foot. During excavation activities, the long toothed bucket allowed some mixing of the top, highly contaminated soil with the deeper soils. The top six inches of this mixture was to be removed with a front-end loader the next day.

In addition to the excavation activities, four soil samples were taken to verify the extent of contamination at Areas 1, 5 and 6. These samples were transported to Savannah Laboratories by Mr. Applegate for 24-hour toxaphene analysis. The small sinkhole between Areas 1 and 6 was filled with backfill material.

Tuesday, August 15, 1989

The upper 6 inches of Area 1 was scraped, bringing Area 1 to a total depth of 1.5 feet below land surface (bls). Hazards also began excavation of Area 2 to approximately 1 foot bls. Trash was removed near the center of Area 2, including an old dishwasher, a small charred telephone pole, an old tire, household debris, ash, and rusty drums. Once the trash was uncovered, at the request of the Health and Safety Officer, pending a Level B Survey of the drums, Hazards stopped excavation of Area 2. Area 3 was next excavated to a depth of approximately 1.5 feet bls near the middle and to approximately 1 foot bls along the edges. During excavation of Area 3, a 6" diameter PVC pipe filled with brown liquid was uncovered. This pipe ran in a north-south direction through the middle of Area 3.

Once excavation of Area 3 was complete, Areas 4 and 5 were excavated to a depth of approximately 1 foot bls. Confirmation samples were taken from Areas 1 and 3. Area 1 was divided into three equal sub-areas for confirmation sampling. Composite samples were taken from the three sub-areas of Area 1 and one composite sample from Area 3. Hazards began excavation of Area 6.

Wednesday, August 16, 1989

Hazards continued excavation of Area 6 and uncovered a concrete sump 2' x 2' x 2' at the southeast corner of the decontamination pad. A 4-inch lead pipe was leading from this sump in a west-southwest direction towards the areas of highest observed toxaphene levels in Area 6 near sample location AS26 and AS49 (see Figure 1). The sump and pipe were removed, and soil under these structures was excavated to a total depth of 3 feet bls. In addition, the southwest corner of the decontamination pad was broken up, giving off a strong toxaphene odor, and revealing a green discoloration through the concrete.

Following the excavation of Area 6, the Hazards crew donned Level B protective equipment and began excavating the drums out of Area 2. A total of six drums were removed, and all but two were empty. One drum contained approximately 1 gallon of what appeared to be waste oil, another contained 2 gallons of brown water. These liquids were mixed with excavated soil and loading along with the crushed remains of the drums.

After removing the drums at Area 2, the results of the verification samples taken on Monday, August 14 were available from the laboratory. **Table 1** presents the results of the verification sample analyses. These results indicate that the extent of contamination in Areas 5 and 6 does not extend beyond the limits defined in the soil removal plan. The contamination at location AS09 is limited to the surface soils, and that there is a localized area of contamination south of Area 1.

The discoloration of the concrete pad at Area 6 was reported to Steve Bedosky of FDER. Mr. Bedosky instructed the FDER oversight coordinator (OSC), Parker Atkins, to remove the concrete pad and to take composite samples of the limerock under the pad. Enough of the pad was removed to obtain composite samples of the limerock sub-base and soil. In addition to these samples, confirmation samples were taken from Areas 2, 4, 5 and 6, and also from the small excavation site south of Area 1.

Thursday, August 17, 1989

Joseph Applegate instructed the OSC to remove the limerock sub-base, and 6 inches of soil under the pad at Area 6. The composite sample of the soil under the pad will be used as the confirmation sample for the pad removal, and the limerock sample was canceled because all of the limerock was removed.

During the excavation of the pad, charred lumber and ash were uncovered at the northwest corner, which was excavated to 5 feet bls. **Table 2** shows the results of the confirmation sampling for Areas 1 and 3. Area 1 requires further excavation and Area 3 is below the cleanup goal. No additional samples were collected.

Friday, August 18, 1989

Removal of the concrete pad, limerock sub base, and 6 inches of top soil north of Area 6 was completed. **Table 3** shows the laboratory results for confirmation sampling at Areas 2, 4, 5, and under the concrete pad north of Area 6. The results indicated that Areas 2 and 6 were below the cleanup goals, and that Areas 4 and 5 required further excavation.

TABLE 1

VERIFICATION SAMPLE ANALYSIS RESULTS[1]
NEWBERRY AIRSTRIP SOIL REMOVAL
NEWBERRY, FLORIDA

SAMPLE NUMBER	SAMPLE LOCATION	TOXAPHENE CONCENTRATION (μg/kg)
NA-A1-V1	Location AS09, 2-2.5 feet bls in Area 1	39,000
NA-A1-V2	Approximately 20 feet southeast of AS09 in 6 foot x 6 foot area of stressed vegetation, from 0-0.5 feet bls. south of Area 1	820,000
NA-A5-V4	Approximately 20 feet southwest of location AS41, from 0-0.5 feet bls. southwest of Area 4.	1,400
NA-A6-V5	Approximately 20 feet southwest of location A548, from 0-0.5 feet bls. southeast of Area 6.	730

[1] Samples collected on August 14, 1989 and reported on August 16, 1989.

TABLE 2

CONFIRMATION SAMPLE RESULTS[1]
NEWBERRY AIRSTRIP SOIL REMOVAL
NEWBERRY, FLORIDA

SAMPLE NUMBER	SAMPLE LOCATION	TOXAPHENE CONCENTRATION (μg/kg)
NA-A1-C1	Composite sample from northern third of Area 1	270,000
NA-A1-C2	Composite sample from middle third of Area 1	5,000,000
NA-A1-C3	Composite sample from southern third of Area 1	110,000
NA-A3-C5	Composite sample from Area 3	5,500

[1] Samples collected on August 15, 1989 and reported on August 17, 1989.

TABLE 3

CONFIRMATION SAMPLE RESULTS[1]
NEWBERRY AIRSTRIP SOIL REMOVAL
NEWBERRY, FLORIDA

SAMPLE NUMBER	SAMPLE LOCATION	TOXAPHENE CONCENTRATION (μg/kg)
NA-A2-C4	Composite sample from Area 2	37,000
NA-A4-C6	Composite sample from Area 4	310,000
NA-A5-C7	Composite sample from Area 5	210,000
NA-A6-C8	Composite sample from Area 6	26,000
NA-A1-C10	Composite sample from small excavation south of Area 1	23,000
NA-A6-C11*	Composite sample of limerock sub-base under pad north of Area 6	84,000
NA-A6-C12	Composite sample of soil under pad north of Area 6	12,000

[1] Samples collected on August 16, 1989 and reported on August 18, 1989.

* This sample was canceled, however, the laboratory analyzed it at no charge and provided verbal report only.

Area 3 was backfilled with clean dirt. Area 1 was excavated further to 2-2.5 feet bls, and Areas 4 and 5 were excavated further to 2-3 feet bls. Area 6 and the concrete pad area north of Area 6 were partially backfilled. A green discoloration on the plastic sheeting covering the central portion of Area 2 was noticed, and FDER requested that a grab sample from this area be taken prior to backfilling. In addition, confirmation samples were taken from Area 1 (three composite samples) and from Areas 4 and 5 (one composite each).

Monday, August 21, 1989

Table 4 shows the laboratory results for the samples taken Friday, August 18. The results indicate that the middle third of Area 1, and Areas 4 and 5 are below the cleanup goal, and that the northern and southern thirds of Area 1 and the middle area of Area 2 is above the cleanup goal.

The middle of Area 2 was excavated further to 4-8 feet bls, removing green discolored soil, ash, and garbage. The northern and southern thirds of Area 1 were further excavated to a depth of 3-3.5 feet bls. Composite confirmation samples for the northern and southern thirds of Area 1 (one each) and Area 2 (one each) were taken, and the trip blank and equipment rinsate were sent to the laboratory for analysis.

Tuesday, August 22, 1989

Contaminated soil that was stockpiled during excavation on August 21, was loaded onto trucks and Area 6 was backfilled with clean dirt.

Wednesday, August 23, 1989

Loading of all stockpiled contaminated soil onto trucks was completed. **Table 5** shows the laboratory results for confirmation samples taken Monday, August 21. The results indicated that the northern and southern thirds of Area 1 and Area 2 were below the cleanup goals. Once these results were reported, Area 2 was backfilled.

Thursday, August 24, 1989

Areas 4 and 5 were backfilled. Areas 2, 3, 4, 5, and 6 were seeded with bahia grass and covered with straw. Backfilling of Area 1 was started but not completed.

Friday, August 25, 1989

Area 1 was completely backfilled, seeded, and covered with straw.

TABLE 4

CONFIRMATION SAMPLE RESULTS[1]
NEWBERRY AIRSTRIP SOIL REMOVAL
NEWBERRY, FLORIDA

SAMPLE NUMBER	SAMPLE LOCATION	TOXAPHENE CONCENTRATION (μg/kg)
NA-A1-C13	Composite sample from northern third of Area 1	130,000
NA-A1-C14	Composite sample from middle third of Area 1	13,000
NA-A1-C15	Composite sample from southern third of Area 1	120,000
NA-A4-C15	Composite sample from Area 4	1,100
NA-A5-C17	Composite sample from Area 5	6,000
NA-A2-C18	Grab sample from middle of Area 2	180,000

[1] Samples collected on August 18, 1989 and reported on August 20, 1989.

TABLE 5

VERIFICATION SAMPLE RESULTS[1]
NEWBERRY AIRSTRIP SOIL REMOVAL
NEWBERRY, FLORIDA

SAMPLE NUMBER	SAMPLE LOCATION	TOXAPHENE CONCENTRATION (μg/kg)
NA-A1-C19	Composite sample from northern third of Area 1	2,300
NA-A1-C20	Composite sample from southern third of Area 1	3,100
NA-A2-C21	Composite sample from Area 2	25,000

[1] Samples collected on August 21, 1989 and reported on August 23, 1989.

These daily activity summaries provide a detailed record of work conducted during the removal project. **Figure 2** has been provided to show the approximate areas where soil removal was performed. Laboratory data sheets for all confirmational and quality control samples are presented in the attachment to this letter. Sample codes used for quality control samples are NA-FB-1 for the field blank and NA-EB-1 for the equipment blank.

CDM is pleased to assist FDER with this project. and we look forward to future opportunities to work with FDER on this site. If you have any questions or comments on this report, please contact me.

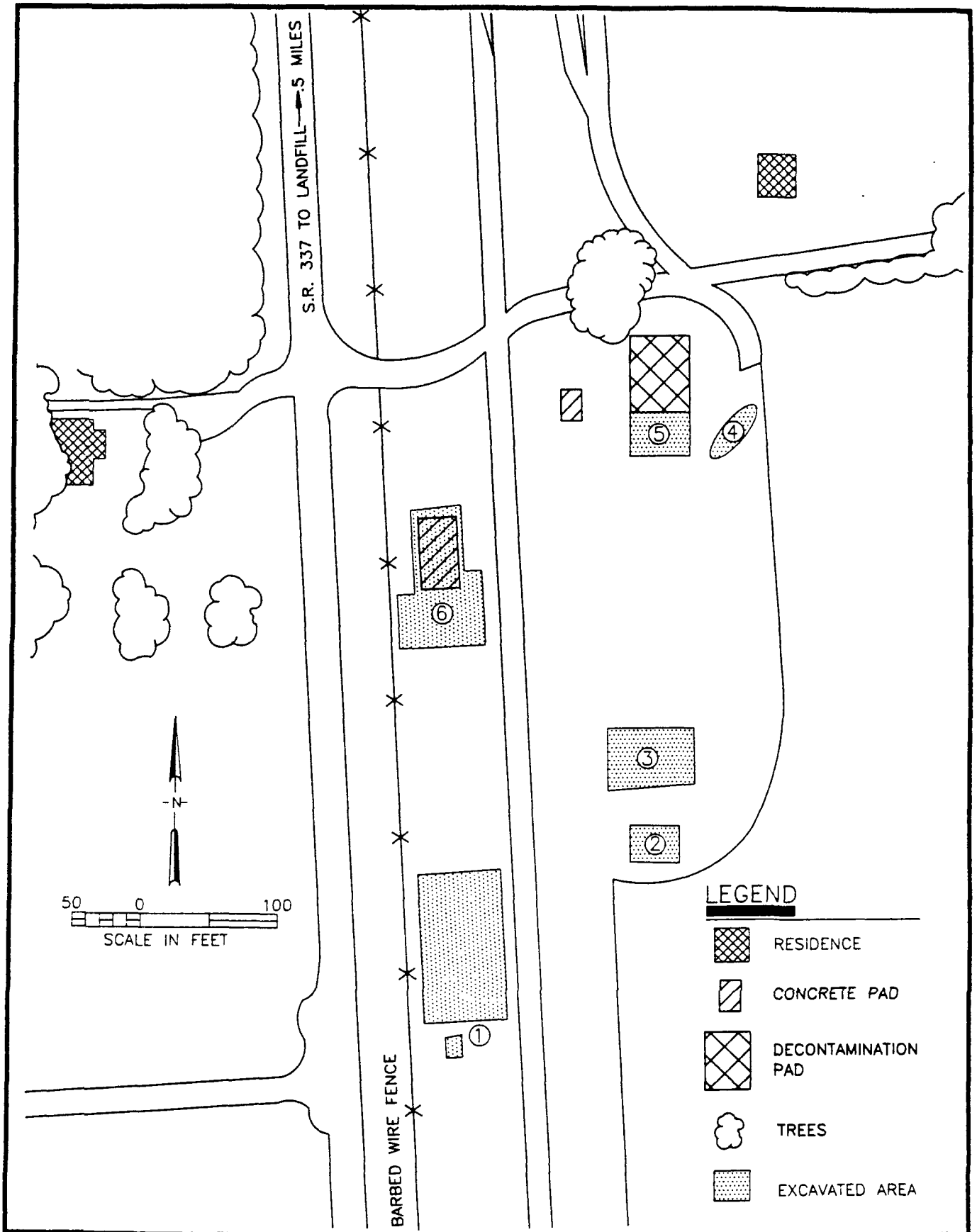
Sincerely.

CAMP DRESSER & McKEE INC.

Kurt R. Batsel, P.E.

KRB/bc

Attachments



CAMP DRESSER & McKEE INC.

APPROXIMATE AREAS OF SOIL EXCAVATION

NEWBERRY AIRSTRIP/LANDFILL SITE

NEWBERRY, FLORIDA

FIGURE NO. 2

ATTACHMENT A - LABORATORY DATA SHEETS

Thomas L. Stephens
Laboratory Director

James W. Andrews, Ph.D.
President

Janette Davis Long
Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

TALLAHASSEE DIVISION
2820 Industrial Plaza Blvd. (32301)
P. O. Box 13056 • Tallahassee, FL 32317-3056
(904) 878-3994

LOG NO: 89-6577

Received: 15 AUG 89

Mr. Kurt Batsel
Camp, Dresser & McKee
2100 Riveredge Parkway, Suite 400
Atlanta, Georgia 30328

Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6577-1	Area 5, Surface, 20'SW AS41	Client
6577-2	Area 6, Surface, 20'SE AS48	
6577-3	Area 1, 2' bls, AS09	
6577-4	Area 1, Surface, 20'SW AS09	

PARAMETER	6577-1	6577-2	6577-3	6577-4
Cl-Pesticides/PCB (8080)				
Aldrin, ug/kg dw	<2.0	<2.0	<100	<200
alpha-BHC, ug/kg dw	<2.0	<2.0	<100	<200
beta-BHC, ug/kg dw	<2.0	<2.0	<100	<200
gamma-BHC, ug/kg dw	<2.0	<2.0	<100	<200
delta-BHC, ug/kg dw	<2.0	<2.0	<100	<200
Chlordane, ug/kg dw	<20	<20	<1000	<2000
4,4'-DDD, ug/kg dw	<4.0	<4.0	<200	<400
4,4'-DDE, ug/kg dw	<4.0	<4.0	<200	<400
4,4'-DDT, ug/kg dw	<10	<10	<500	<1000
Dieldrin, ug/kg dw	<4.0	<4.0	<200	<400
Endosulfan I, ug/kg dw	<4.0	<4.0	<200	<400
Endosulfan II, ug/kg dw	<10	<10	<500	<1000
Endosulfan sulfate, ug/kg dw	<16	<16	<800	<1600
Endrin, ug/kg dw	<4.0	<4.0	<200	<400
Endrin Aldehyde, ug/kg dw	<20	<20	<1000	<2000
Heptachlor, ug/kg dw	<2.0	<2.0	<100	<200
Heptachlor epoxide, ug/kg dw	<4.0	<4.0	<200	<400
Kepone, ug/kg dw	<10	<10	<500	<1000
Methoxychlor, ug/kg dw	<80	<80	<400	<800

Thomas L. Stephens
Laboratory Director

James W. Andrews, Ph.D.
President

Janette Davis Long
Vice-President

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TALLAHASSEE DIVISION
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LOG NO: 89-6577

Received: 15 AUG 89

Mr. Kurt Batsel
Camp, Dresser & McKee
2100 Riveredge Parkway, Suite 400
Atlanta, Georgia 30328

Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6577-1	Area 5, Surface, 20'SW AS41	Client
6577-2	Area 6, Surface, 20'SE AS48	
6577-3	Area 1, 2' bls, AS09	
6577-4	Area 1, Surface, 20'SW AS09	

PARAMETER	6577-1	6577-2	6577-3	6577-4
Toxaphene, ug/kg dw	1400	730	39000	820000
Aroclor-1016, ug/kg dw	<80	<80	<400	<800
Aroclor-1221, ug/kg dw	<80	<80	<400	<800
Aroclor-1232, ug/kg dw	<80	<80	<400	<800
Aroclor-1242, ug/kg dw	<80	<80	<400	<800
Aroclor-1248, ug/kg dw	<80	<80	<400	<800
Aroclor-1254, ug/kg dw	<80	<80	<400	<800
Aroclor-1260, ug/kg dw	<80	<80	<400	<800

Method: EPA 40 CFR Part 136
HRS Certification #'s: 81291,87279,E81005,E87052

Thomas L. Stephens

Thomas L. Stephens
Laboratory Director

James W. Andrews, Ph.D.
President

Janette Davis Long
Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

TALLAHASSEE DIVISION
2820 Industrial Plaza Blvd. (32301)
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LOG NO: 89-6589

Received: 16 AUG 89

Mr. Kurt Batsel
Camp, Dresser & McKee
2100 Riveredge Parkway, Suite 400
Atlanta, Georgia 30328

Project: Newberry Airstrip Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6589-1	NA-A1-C1 Comp.N. 1/3 Area 1; Conf.	Client
6589-2	NA-A1-C2 Comp.Mid 1/3 Area 1; Conf.	
6589-3	NA-A1-C3 Comp.S. 1/3 Area 1; Conf.	
6589-4	NA-A3-C5 Comp. Area 3; Conf.	

PARAMETER	6589-1	6589-2	6589-3	6589-4
Cl-Pesticides/PCB (8080)				
Aldrin, ug/kg dw	<1000	<5000	<500	<20
alpha-BHC, ug/kg dw	<1000	<5000	<500	<20
beta-BHC, ug/kg dw	<1000	<5000	<500	<20
gamma-BHC, ug/kg dw	<1000	<5000	<500	<20
delta-BHC, ug/kg dw	<1000	<5000	<500	<20
Chlordane, ug/kg dw	<10000	<50000	<5000	<200
4,4'-DDD, ug/kg dw	<2000	<10000	<1000	<40
4,4'-DDE, ug/kg dw	<2000	<10000	<1000	<40
4,4'-DDT, ug/kg dw	<5000	<25000	<2500	<100
Dieldrin, ug/kg dw	<2000	<10000	<1000	<40
Endosulfan I, ug/kg dw	<2000	<10000	<1000	<40
Endosulfan II, ug/kg dw	<5000	<25000	<2500	<100
Endosulfan sulfate, ug/kg dw	<8000	<40000	<4000	<160
Endrin, ug/kg dw	<2000	<10000	<1000	<40
Endrin Aldehyde, ug/kg dw	<10000	<50000	<5000	<200
Heptachlor, ug/kg dw	<1000	<5000	<500	<20
Heptachlor epoxide, ug/kg dw	<2000	<10000	<1000	<40
Kepone, ug/kg dw	<5000	<25000	<2500	<100
Methoxychlor, ug/kg dw	<40000	<200000	<20000	<800

Thomas L. Stephens
Laboratory Director

James W. Andrews, Ph.D.
President

Janette Davis Long
Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

TALLAHASSEE DIVISION
2820 Industrial Plaza Blvd. (32301)
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LOG NO: 89-6589

Received: 16 AUG 89

Mr. Kurt Batsel
Camp, Dresser & McKee
2100 Riveredge Parkway, Suite 400
Atlanta, Georgia 30328

Project: Newberry Airstrip Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6589-1	NA-A1-C1 Comp.N. 1/3 Area 1; Conf.	Client
6589-2	NA-A1-C2 Comp.Mid 1/3 Area 1; Conf.	
6589-3	NA-A1-C3 Comp.S. 1/3 Area 1; Conf.	
6589-4	NA-A3-C5 Comp. Area 3; Conf.	

PARAMETER	6589-1	6589-2	6589-3	6589-4
Toxaphene, ug/kg dw	270000	5000000	110000	5500
Aroclor-1016, ug/kg dw	<40000	<200000	<20000	<800
Aroclor-1221, ug/kg dw	<40000	<200000	<20000	<800
Aroclor-1232, ug/kg dw	<40000	<200000	<20000	<800
Aroclor-1242, ug/kg dw	<40000	<200000	<20000	<800
Aroclor-1248, ug/kg dw	<40000	<200000	<20000	<800
Aroclor-1254, ug/kg dw	<40000	<200000	<20000	<800
Aroclor-1260, ug/kg dw	<40000	<200000	<20000	<800

Method: EPA 40 CFR Part 136
HRS Certification #'s: 81291,87279,E81005,E87052

Thomas L. Stephens

Thomas L. Stephens
Laboratory Director

James W. Andrews, Ph.D.
President

Janette Davis Long
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LOG NO: 89-6602

Received: 17 AUG 89

Mr. Kurt Batsel
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2100 Riveredge Parkway, Suite 400
Atlanta, Georgia 30328

Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6602-1	NA-A6-C12	Client
6602-2	NA-A2-C4	
6602-3	NA-A6-C8	
6602-4	NA-A5-C7	
6602-5	NA-A4-C6	

PARAMETER	6602-1	6602-2	6602-3	6602-4	6602-5
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<20	<100	<100	<500	<1000
alpha-BHC, ug/kg dw	<20	<100	<100	<500	<1000
beta-BHC, ug/kg dw	<20	<100	<100	<500	<1000
gamma-BHC, ug/kg dw	<20	<100	<100	<500	<1000
delta-BHC, ug/kg dw	<20	<100	<100	<500	<1000
Chlordane, ug/kg dw	<200	<1000	<1000	<5000	<10000
4,4'-DDD, ug/kg dw	<40	<200	<200	<1000	<2000
4,4'-DDE, ug/kg dw	<40	<200	<200	<1000	<2000
4,4'-DDT, ug/kg dw	<100	<500	<500	<2500	<5000
Dieldrin, ug/kg dw	<40	<200	<200	<1000	<2000
Endosulfan I, ug/kg dw	<40	<200	<200	<1000	<2000
Endosulfan II, ug/kg dw	<100	<500	<500	<2500	<5000
Endosulfan sulfate, ug/kg dw	<160	<800	<800	<4000	<8000
Endrin, ug/kg dw	<40	<200	<200	<1000	<2000
Endrin Aldehyde, ug/kg dw	<200	<1000	<1000	<5000	<10000
Heptachlor, ug/kg dw	<20	<100	<100	<500	<1000
Heptachlor epoxide, ug/kg dw	<40	<200	<200	<1000	<2000
Kepone, ug/kg dw	<100	<500	<500	<2500	<5000

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Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6602-1	NA-A6-C12	Client
6602-2	NA-A2-C4	
6602-3	NA-A6-C8	
6602-4	NA-A5-C7	
6602-5	NA-A4-C6	

PARAMETER	6602-1	6602-2	6602-3	6602-4	6602-5
Methoxychlor, ug/kg dw	<800	<4000	<4000	<5000	<10000
Toxaphene, ug/kg dw	12000	37000	26000	210000	310000
Aroclor-1016, ug/kg dw	<800	<4000	<4000	<20000	<40000
Aroclor-1221, ug/kg dw	<800	<4000	<4000	<20000	<40000
Aroclor-1232, ug/kg dw	<800	<4000	<4000	<20000	<40000
Aroclor-1242, ug/kg dw	<800	<4000	<4000	<20000	<40000
Aroclor-1248, ug/kg dw	<800	<4000	<4000	<20000	<40000
Aroclor-1254, ug/kg dw	<800	<4000	<4000	<20000	<40000
Aroclor-1260, ug/kg dw	<800	<4000	<4000	<20000	<40000

Method: EPA SW-846
HRS Certification #'s: 81291,87279,E81005,E87052

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LOG NO: 89-6602

Received: 17 AUG 89

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Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6602-6	NA-A1-C10	Client

PARAMETER	6602-6
Cl-Pesticides/PCB (8080)	
Aldrin, ug/kg dw	<100
alpha-BHC, ug/kg dw	<100
beta-BHC, ug/kg dw	<100
gamma-BHC, ug/kg dw	<100
delta-BHC, ug/kg dw	<100
Chlordane, ug/kg dw	<1000
4,4'-DDD, ug/kg dw	<200
4,4'-DDE, ug/kg dw	<200
4,4'-DDT, ug/kg dw	<500
Dieldrin, ug/kg dw	<200
Endosulfan I, ug/kg dw	<200
Endosulfan II, ug/kg dw	<500
Endosulfan sulfate, ug/kg dw	<800
Endrin, ug/kg dw	<200
Endrin Aldehyde, ug/kg dw	<1000
Heptachlor, ug/kg dw	<100
Heptachlor epoxide, ug/kg dw	<200
Kepone, ug/kg dw	<500
Methoxychlor, ug/kg dw	<1000
Toxaphene, ug/kg dw	23000
Aroclor-1016, ug/kg dw	<4000
Aroclor-1221, ug/kg dw	<4000
Aroclor-1232, ug/kg dw	<4000
Aroclor-1242, ug/kg dw	<4000
Aroclor-1248, ug/kg dw	<4000
Aroclor-1254, ug/kg dw	<4000
Aroclor-1260, ug/kg dw	<4000

Method: EPA SW-846
HRS Certification #'s: 81291,87279,E81005,E87052

Thomas L. Stephens

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LOG NO: 89-6617

Received: 18 AUG 89

Mr. Kurt Batsel
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Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6617-1	NA-A1-C13	Client
6617-2	NA-A1-C14	
6617-3	NA-A1-C15	
6617-4	NA-A4-C16	
6617-5	NA-A5-C17	

PARAMETER	6617-1	6617-2	6617-3	6617-4	6617-5
Cl-Pesticides/PCB (8080)					
Aldrin, ug/kg dw	<250	<50	<100	<2.0	<5.0
alpha-BHC, ug/kg dw	<250	<50	<100	<2.0	<5.0
beta-BHC, ug/kg dw	<250	<50	<100	<2.0	<5.0
gamma-BHC, ug/kg dw	<250	<50	100	<2.0	<5.0
delta-BHC, ug/kg dw	<250	<50	<100	<2.0	<5.0
Chlordane, ug/kg dw	<2500	<500	<1000	<20	<50
4,4'-DDD, ug/kg dw	<500	<100	<200	<4.0	<10
4,4'-DDE, ug/kg dw	<500	<100	<200	<4.0	<10
4,4'-DDT, ug/kg dw	<1250	<250	<500	<10	<25
Dieldrin, ug/kg dw	<500	<100	<200	<4.0	<10
Endosulfan I, ug/kg dw	<500	<100	230	<4.0	<10
Endosulfan II, ug/kg dw	<1250	<250	<500	<10	<25
Endosulfan sulfate, ug/kg dw	<2000	<400	<800	<16	<40
Endrin, ug/kg dw	<500	<100	<200	<4.0	<10
Endrin Aldehyde, ug/kg dw	<2500	<500	<1000	<20	<50
Heptachlor, ug/kg dw	<250	<50	<100	<2.0	<5.0
Heptachlor epoxide, ug/kg dw	<500	<100	<200	<4.0	<50
Kepone, ug/kg dw	<1250	<250	<500	<10	<25

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Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6617-1	NA-A1-C13	Client
6617-2	NA-A1-C14	
6617-3	NA-A1-C15	
6617-4	NA-A4-C16	
6617-5	NA-A5-C17	

PARAMETER	6617-1	6617-2	6617-3	6617-4	6617-5
Methoxychlor, ug/kg dw	<10000	<2000	<4000	<80	<200
Toxaphene, ug/kg dw	130000	13000	120000	1100	6000
Aroclor-1016, ug/kg dw	<10000	<2000	<4000	<80	<200
Aroclor-1221, ug/kg dw	<10000	<2000	<4000	<80	<200
Aroclor-1232, ug/kg dw	<10000	<2000	<4000	<80	<200
Aroclor-1242, ug/kg dw	<10000	<2000	<4000	<80	<200
Aroclor-1248, ug/kg dw	<10000	<2000	<4000	<80	<200
Aroclor-1254, ug/kg dw	<10000	<2000	<4000	<80	<200
Aroclor-1260, ug/kg dw	<10000	<2000	<4000	<80	<200

Method: EPA 40 CFR Part 136
HRS Certification #'s: 81291,87279,E81005,E87052

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LOG NO: 89-6617

Received: 18 AUG 89

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Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6617-6	NA-A2-C18	Client

PARAMETER	6617-6
Cl-Pesticides/PCB (8080)	
Aldrin, ug/kg dw	<200
alpha-BHC, ug/kg dw	<200
beta-BHC, ug/kg dw	<200
gamma-BHC, ug/kg dw	<200
delta-BHC, ug/kg dw	<200
Chlordane, ug/kg dw	<2000
4,4'-DDD, ug/kg dw	<400
4,4'-DDE, ug/kg dw	<400
4,4'-DDT, ug/kg dw	<1000
Dieldrin, ug/kg dw	<400
Endosulfan I, ug/kg dw	2700
Endosulfan II, ug/kg dw	<1000
Endosulfan sulfate, ug/kg dw	<1600
Endrin, ug/kg dw	<400
Endrin Aldehyde, ug/kg dw	<2000
Heptachlor, ug/kg dw	<200
Heptachlor epoxide, ug/kg dw	<400
Kepone, ug/kg dw	<1000
Methoxychlor, ug/kg dw	<8000
Toxaphene, ug/kg dw	180000
Aroclor-1016, ug/kg dw	<8000
Aroclor-1221, ug/kg dw	<8000
Aroclor-1232, ug/kg dw	<8000
Aroclor-1242, ug/kg dw	<8000
Aroclor-1248, ug/kg dw	<8000
Aroclor-1254, ug/kg dw	<8000
Aroclor-1260, ug/kg dw	<8000

Method: EPA 40 CFR Part 136
HRS Certification #'s: 81291,87279,E81005,E87052

Thomas L. Stephens

Mr. Thomas L. Stephens

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LOG NO: 89-6636

Received: 22 AUG 89

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Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6636-1	NA-A1-C19	Client
6636-2	NA-A1-C20	
6636-3	NA-A2-C21	

PARAMETER	6636-1	6636-2	6636-3
Cl-Pesticides/PCB (8080)			
Aldrin, ug/kg dw	<10	<10	<50
alpha-BHC, ug/kg dw	<10	<10	<50
beta-BHC, ug/kg dw	<10	<10	<50
gamma-BHC, ug/kg dw	<10	<10	<50
delta-BHC, ug/kg dw	<10	<10	<50
Chlordane, ug/kg dw	<100	<100	<500
4,4'-DDD, ug/kg dw	<20	<20	<100
4,4'-DDE, ug/kg dw	<20	<20	<100
4,4'-DDT, ug/kg dw	<50	<50	<250
Dieldrin, ug/kg dw	<20	<20	<100
Endosulfan I, ug/kg dw	<20	<20	<100
Endosulfan II, ug/kg dw	<50	<50	<250
Endosulfan sulfate, ug/kg dw	<80	<80	<400
Endrin, ug/kg dw	<20	<20	<100
Endrin Aldehyde, ug/kg dw	<80	<80	<500
Heptachlor, ug/kg dw	<10	<10	<50
Heptachlor epoxide, ug/kg dw	<20	<20	<100
Kepone, ug/kg dw	<50	<50	<250
Methoxychlor, ug/kg dw	<400	<400	<2000
Toxaphene, ug/kg dw	2300	3100	25000

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LOG NO: 89-6636

Received: 22 AUG 89

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Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	SAMPLED BY
6636-1	NA-A1-C19	Client
6636-2	NA-A1-C20	
6636-3	NA-A2-C21	

PARAMETER	6636-1	6636-2	6636-3
Aroclor-1016, ug/kg dw	<400	<400	<2000
Aroclor-1221, ug/kg dw	<400	<400	<2000
Aroclor-1232, ug/kg dw	<400	<400	<2000
Aroclor-1242, ug/kg dw	<400	<400	<2000
Aroclor-1248, ug/kg dw	<400	<400	<2000
Aroclor-1254, ug/kg dw	<400	<400	<2000
Aroclor-1260, ug/kg dw	<400	<400	<2000

Method: EPA SW-846
HRS Certification #'s: 81291,87279,E81005,E87052

Thomas L. Stephens
Thomas L. Stephens

Thomas L. Stephens
Laboratory Director

James W. Andrews, Ph.D.
President

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LOG NO: 89-6637

Received: 22 AUG 89

Mr. Kurt Batsel
Camp, Dresser & McKee
2100 Riveredge Parkway, Suite 400
Atlanta, Georgia 30328

Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
6637-1	NA-FB-1	Client
6637-2	NA-EB-1	

PARAMETER	6637-1	6637-2
Cl-Pesticides/PCB (8080)		
Aldrin, ug/l	<0.010	<0.010
alpha-BHC, ug/l	<0.010	<0.010
beta-BHC, ug/l	<0.010	<0.010
gamma-BHC, ug/l	<0.010	<0.010
delta-BHC, ug/l	<0.010	<0.010
Chlordane, ug/l	<0.10	<0.10
4,4'-DDD, ug/l	<0.020	<0.020
4,4'-DDE, ug/l	<0.020	<0.020
4,4'-DDT, ug/l	<0.050	<0.050
Dieldrin, ug/l	<0.020	<0.020
Endosulfan I, ug/l	<0.020	<0.020
Endosulfan II, ug/l	<0.050	<0.050
Endosulfan sulfate, ug/l	<0.10	<0.10
Endrin, ug/l	<0.020	<0.020
Endrin Aldehyde, ug/l	<0.10	<0.10
Heptachlor, ug/l	<0.010	<0.010
Heptachlor epoxide, ug/l	<0.020	<0.020
Kepone, ug/l	<0.050	<0.050
Methoxychlor, ug/l	<0.50	<0.50
Toxaphene, ug/l	<1.0	<1.0
Aroclor-1016, ug/l	<0.50	<0.50

Thomas L. Stephens
Laboratory Director

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LOG NO: 89-6637

Received: 22 AUG 89

Mr. Kurt Batsel
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Project: Newberry Soil Removal

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
6637-1	NA-FB-1	Client
6637-2	NA-EB-1	

PARAMETER	6637-1	6637-2
Aroclor-1221, ug/l	<0.50	<0.50
Aroclor-1232, ug/l	<0.50	<0.50
Aroclor-1242, ug/l	<0.50	<0.50
Aroclor-1248, ug/l	<0.50	<0.50
Aroclor-1254, ug/l	<0.50	<0.50
Aroclor-1260, ug/l	<0.50	<0.50

Method: EPA SW-846
HRS Certification #'s: 81291,87279,E81005,E87052

Thomas L. Stephens

CDM

environmental engineers, scientists, planners, & management consultants

CAMP DRESSER & McKEE INC.

2100 RiverEdge Parkway, Suite 400
Atlanta, Georgia 30328
404 952-8643

January 30, 1990

Mr. Joseph Applegate
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399

Bureau of Waste Cleanup

FEB 2 1990

Hazardous Waste
Cleanup Section

Subject: Letter Report
Analytical Results
Newberry Airstrip/Landfill Site

Dear Mr. Applegate:

Camp Dresser & McKee Inc. (CDM) is pleased to submit this letter report summarizing the analytical results for groundwater samples obtained by CDM on December 19 and 20, 1989. The letter report, sampling activities and laboratory analyses are part of the scope of work described in the CDM proposal dated November 8, 1989.

DESCRIPTION OF WORK

CDM obtained groundwater samples from monitoring wells 1 through 5 located at the Newberry Landfill, and monitoring wells 6 through 9 located at the Newberry Airstrip. All nine wells were analyzed for pesticide extractables and organophosphates. In addition, samples from monitor wells 3, 4 and 5 were also analyzed on both filtered and unfiltered basis for the metals arsenic, chromium, lead, nickel, and mercury.

The scope of work for this project specifies that monitoring well 2 should also be analyzed for metals on filtered and unfiltered basis. CDM inadvertently omitted metals analyses for this well in the instructions to the laboratory, and instead substituted well 4 for metals analyses. CDM will resample well 2 for metals analysis on filtered and unfiltered basis during the week of January 28, 1990.

RESULTS

Table 1 summarizes and compares analytical data from the Newberry Airstrip/Landfill Site Contamination Assessment Report (CAR), (CDM, 1989), with analytical data from the December 1989 ("recent") sampling program. The table includes all constituents analyzed that occur above detection levels in either the CAR data or in the recent data. No constituents were detected in field blank.

Organics: Chlordane and toxaphene are present at levels above detection in one well, MW-8. Chlordane occurs at 1.8 $\mu g/L$ which is significantly above the FDER guidance concentration of 0.1 $\mu g/L$. Toxaphene occurs in MW-8 at 10 $\mu g/L$ which slightly exceeds the FDER guidance concentration of 5 $\mu g/L$. Neither of these constituents was previously detected in MW-8.

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Cleanup
Lab Analy
Report

TABLE 1
(Revised 2/8/90)

GROUNDWATER ANALYTICAL DATA*
NEWBERRY AIRSTRIP/LANDFILL SITE
NEWBERRY, FLORIDA

Constituent	FDER Guidance Concentration	Well Number MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
Organics	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Alpha BHC	0.05	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (0.020)	ND (0.013)	ND (ND)
Gamma BHC	4	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (0.14)	ND (ND)
Chlordane	0.1	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	1.8 (ND)	ND (ND)
4,4'-DDD	—	ND (0.30)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)
4,4'-DDT	0.1	ND (0.054)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Endrin	0.2	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (0.072)
Toxaphene	5	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	10 (ND)	ND (ND)
Inorganics	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(g/mL)	(mg/L)	(mg/L)	(mg/L)
Arsenic	.050	ND (ND)	ND (ND)	ND (0.015)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Chromium	.050	ND (ND)	ND (0.012)	0.011[a] (0.14)	0.019[a] (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Cyanide	.154	ND (ND)	ND (ND)	ND (0.02)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Lead	.050	ND (ND)	ND (0.046)	ND (0.015)	0.013 (ND)	ND (0.013)	ND (ND)	ND (ND)	ND (ND)	ND (ND)
Nickel	.015	ND (ND)	ND (ND)	ND (0.042)	ND (0.010)	ND (0.011)	ND (ND)	ND (ND)	ND (ND)	ND (ND)

*Comparison of December 1989 sampling results with previous results. Previous results are in parentheses.

[a]Metals concentrations above detection are on unfiltered basis. All analyses of filtered samples in December 1989 data were below detection.

ND - Not detected.

Inorganics: Among the five inorganic constituents analyzed, lead and chromium occur at levels above detection. Both of these metals were detected only in the unfiltered samples. Lead occurs in MW-4 at 0.013 mg/l. Lead was not previously detected in this well. The guidance concentration for lead is 0.050 mg/l. Previously elevated lead concentrations in MW-3 and MW-5 have diminished to levels below detection.

Chromium occurs in MW-3 at 0.011 mg/l which is less than the previous value of 0.14 mg/l. Chromium occurs in MW-4 at 0.019 mg/l, and was not previously detected in this well. The guidance concentration for chromium is 0.050 mg/l.

Arsenic, nickel and cyanide were all previously reported at elevated levels. Each of these constituents in the recent data occurs at levels below detection.

The complete laboratory reports for each of the nine wells are included in the appendix. Table 1 will be updated when the analytical results are available from the resampling of MW-2. If you have any questions concerning this letter report, please do not hesitate to contact me.

Sincerely,

CAMP DRESSER & McKEE INC.

John H. Sulima, Ph.D.

JHS/pl

cc: Kurt R. Batsel, P.E., CDM

APPENDIX

ANALYTICAL RESULTS

NEWBERRY AIRSTRIP/LANDFILL SITE

DECEMBER 1989 SAMPLING PROGRAM

Thomas L. Stephens
Laboratory Director

James W. Andrews, Ph.D.
President

Janette Davis Long
Vice-President

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

TALLAHASSEE DIVISION

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(904) 878-3994

LOG NO: 89-10941

Received: 21 DEC 89

Mr. Howard Whitney
Camp, Dresser & McKee
2100 Riveredge Parkway, Suite 400
Atlanta, Georgia 30328

Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
10941-1	MW-6 (NA-MW6-02)	Client
10941-2	MW-9 (NA-MW9-02)	
10941-3	MW-7 (NA-MW7-02)	
10941-4	MW-N1 (NA-MWN1-02)	
10941-5	MW-8 (NA-MW8-02)	

PARAMETER	10941-1	10941-2	10941-3	10941-4	10941-5
Chlorinated Pesticides (608)					
Aldrin, ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
alpha-BHC, ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
beta-BHC, ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
delta-BHC, ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
gamma-BHC, ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
Chlordane, ug/l	<0.10	<0.10	<0.10	<0.10	1.8
4,4'-DDD, ug/l	<0.02	<0.02	<0.02	<0.02	<0.02
4,4'-DDE, ug/l	<0.02	<0.02	<0.02	<0.02	<0.02
4,4'-DDT, ug/l	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin, ug/l	<0.02	<0.02	<0.02	<0.02	<0.02
Endosulfan I, ug/l	<0.02	<0.02	<0.02	<0.02	<0.02
Endosulfan II, ug/l	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
Endrin, ug/l	<0.02	<0.02	<0.02	<0.02	<0.02
Endrin Aldehyde, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
Heptachlor, ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor epoxide, ug/l	<0.02	<0.02	<0.02	<0.02	<0.02
Toxaphene, ug/l	<1.0	<1.0	<1.0	<1.0	10

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Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
10941-1	MW-6 (NA-MW6-02)	Client
10941-2	MW-9 (NA-MW9-02)	
10941-3	MW-7 (NA-MW7-02)	
10941-4	MW-N1 (NA-MWN1-02)	
10941-5	MW-8 (NA-MW8-02)	

PARAMETER	10941-1	10941-2	10941-3	10941-4	10941-5
Aroclor-1016, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor-1221, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor-1232, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor-1242, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor-1248, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor-1254, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor-1260, ug/l	<0.50	<0.50	<0.50	<0.50	<0.50
Phosphorus Pesticides (614)					
Azinphos methyl, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Demeton-O, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
Demeton-S, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
Diazinon, ug/l	<0.050	<0.050	<0.050	<0.050	<0.050
Disulfoton, ug/l	<0.050	<0.050	<0.050	<0.050	<0.050
Malathion, ug/l	<0.10	<0.10	<0.10	<0.10	<0.10
Parathion Ethyl, ug/l	<0.050	<0.050	<0.050	<0.050	<0.050
Parathion Methyl, ug/l	<0.050	<0.050	<0.050	<0.050	<0.050

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
10941-6	MW-N2 (NA-MWN2-02)	Client

PARAMETER	10941-6
Chlorinated Pesticides (608)	
Aldrin, ug/l	<0.01
alpha-BHC, ug/l	<0.01
beta-BHC, ug/l	<0.01
delta-BHC, ug/l	<0.01
gamma-BHC, ug/l	<0.01
Chlordane, ug/l	<0.10
4,4'-DDD, ug/l	<0.02
4,4'-DDE, ug/l	<0.02
4,4'-DDT, ug/l	<0.05
Dieldrin, ug/l	<0.02
Endosulfan I, ug/l	<0.02
Endosulfan II, ug/l	<0.05
Endosulfan sulfate, ug/l	<0.10
Endrin, ug/l	<0.02
Endrin Aldehyde, ug/l	<0.10
Heptachlor, ug/l	<0.01
Heptachlor epoxide, ug/l	<0.02
Toxaphene, ug/l	<1.0
Aroclor-1016, ug/l	<0.50
Aroclor-1221, ug/l	<0.50
Aroclor-1232, ug/l	<0.50
Aroclor-1242, ug/l	<0.50
Aroclor-1248, ug/l	<0.50
Aroclor-1254, ug/l	<0.50
Aroclor-1260, ug/l	<0.50

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
10941-6	MW-N2 (NA-MWN2-02)	Client

PARAMETER	10941-6
Phosphorus Pesticides (614)	
Azinphos methyl, ug/l	<1.0
Demeton-O, ug/l	<0.10
Demeton-S, ug/l	<0.10
Diazinon, ug/l	<0.50
Disulfoton, ug/l	<0.050
Malathion, ug/l	<0.10
Parathion Ethyl, ug/l	<0.050
Parathion Methyl, ug/l	<0.050

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
10941-7	MW-N3 (NA-MWN3-02)	Client
10941-8	MW-N4 (NA-MWN4-02)	
10941-9	MW-N5 (NA-MWN5-02)	

PARAMETER	10941-7	10941-8	10941-9
Arsenic, mg/l	<0.010	<0.010	<0.010
Chromium, mg/l	0.011	0.019	<0.010
Lead, mg/l	<0.0050	0.013	<0.0050
Nickel, mg/l	<0.010	<0.010	<0.010
Mercury, mg/l	<0.00020	<0.00020	<0.00020
Arsenic (Dissolved), mg/l	<0.010	<0.010	<0.010
Chromium (Dissolved), mg/l	<0.010	<0.010	<0.010
Lead (Dissolved), mg/l	<0.0050	<0.0050	<0.0050
Nickel (Dissolved), mg/l	<0.010	<0.010	<0.010
Mercury (Dissolved), mg/l	<0.00020	<0.00020	<0.00020

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10941-7	MW-N3 (NA-MWN3-02)	Client
10941-8	MW-N4 (NA-MWN4-02)	
10941-9	MW-N5 (NA-MWN5-02)	

PARAMETER	10941-7	10941-8	10941-9
Chlorinated Pesticides (608)			
Aldrin, ug/l	<0.01	<0.01	<0.01
alpha-BHC, ug/l	<0.01	<0.01	<0.01
beta-BHC, ug/l	<0.01	<0.01	<0.01
delta-BHC, ug/l	<0.01	<0.01	<0.01
gamma-BHC, ug/l	<0.01	<0.01	<0.01
Chlordane, ug/l	<0.10	<0.10	<0.10
4,4'-DDD, ug/l	<0.02	<0.02	<0.02
4,4'-DDE, ug/l	<0.02	<0.02	<0.02
4,4'-DDT, ug/l	<0.05	<0.05	<0.05
Dieldrin, ug/l	<0.02	<0.02	<0.02
Endosulfan I, ug/l	<0.02	<0.02	<0.02
Endosulfan II, ug/l	<0.05	<0.05	<0.05
Endosulfan sulfate, ug/l	<0.10	<0.10	<0.10
Endrin, ug/l	<0.02	<0.02	<0.02
Endrin Aldehyde, ug/l	<0.10	<0.10	<0.10
Heptachlor, ug/l	<0.01	<0.01	<0.01
Heptachlor epoxide, ug/l	<0.02	<0.02	<0.02
Toxaphene, ug/l	<1.0	<1.0	<1.0
Aroclor-1016, ug/l	<0.50	<0.50	<0.50
Aroclor-1221, ug/l	<0.50	<0.50	<0.50
Aroclor-1232, ug/l	<0.50	<0.50	<0.50
Aroclor-1242, ug/l	<0.50	<0.50	<0.50
Aroclor-1248, ug/l	<0.50	<0.50	<0.50
Aroclor-1254, ug/l	<0.50	<0.50	<0.50
Aroclor-1260, ug/l	<0.50	<0.50	<0.50

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Project: Newberry Airstrip/Landfill

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
10941-7	MW-N3 (NA-MWN3-02)	Client
10941-8	MW-N4 (NA-MWN4-02)	
10941-9	MW-N5 (NA-MWN5-02)	

PARAMETER	10941-7	10941-8	10941-9
Phosphorus Pesticides (614)			
Azinphos methyl, ug/l	<1.0	<1.0	<1.0
Demeton-O, ug/l	<0.10	<0.10	<0.10
Demeton-S, ug/l	<0.10	<0.10	<0.10
Diazinon, ug/l	<0.050	<0.050	<0.050
Disulfoton, ug/l	<0.050	<0.050	<0.050
Malathion, ug/l	<0.10	<0.10	<0.10
Parathion Ethyl, ug/l	<0.050	<0.050	<0.050
Parathion Methyl, ug/l	<0.050	<0.050	<0.050

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
10941-10	Field Blank	Client

PARAMETER	10941-10
Arsenic, mg/l	<0.010
Chromium, mg/l	<0.010
Lead, mg/l	<0.0050
Mercury, mg/l	<0.00020
Nickel, mg/l	<0.010

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
10941-11	Equipment Blank	Client

PARAMETER	10941-11
Chlorinated Pesticides (608)	
Aldrin, ug/l	<0.01
alpha-BHC, ug/l	<0.01
beta-BHC, ug/l	<0.01
delta-BHC, ug/l	<0.01
gamma-BHC, ug/l	<0.01
Chlordane, ug/l	<0.10
4,4'-DDD, ug/l	<0.02
4,4'-DDE, ug/l	<0.02
4,4'-DDT, ug/l	<0.05
Dieldrin, ug/l	<0.02
Endosulfan I, ug/l	<0.02
Endosulfan II, ug/l	<0.05
Endosulfan sulfate, ug/l	<0.10
Endrin, ug/l	<0.02
Endrin Aldehyde, ug/l	<0.10
Heptachlor, ug/l	<0.01
Heptachlor epoxide, ug/l	<0.02
Toxaphene, ug/l	<1.0
Aroclor-1016, ug/l	<0.50
Aroclor-1221, ug/l	<0.50
Aroclor-1232, ug/l	<0.50
Aroclor-1242, ug/l	<0.50
Aroclor-1248, ug/l	<0.50
Aroclor-1254, ug/l	<0.50
Aroclor-1260, ug/l	<0.50

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	SAMPLED BY
10941-11	Equipment Blank	Client

PARAMETER	10941-11
Arsenic, mg/l	<0.010
Chromium, mg/l	<0.010
Lead, mg/l	<0.0050
Mercury, mg/l	<0.00020
Nickel, mg/l	<0.010

Method: EPA 600/4-79-020
HRS Certification #'s:81291,87279,E81005,E87052

Thomas L. Stephens

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To: _____ Location: _____

To _____ Location _____

To. _____ Location _____

From: _____ Date _____

Interoffice Memorandum

To: Newberry Deletion File

From: Joseph B. Wheatley, Engineer II / Project Manager JBW

Date: July 30, 1991

Subject: Deletion from State Action Site list

An investigation at the landfill was performed by a FDER operation Response Team in October 1985. The investigation indicated there were four main areas in the landfill that received waste; one of which contained mainly empty pesticide containers. The remaining three areas contain mostly municipal and domestic garbage, appliances and automobile parts. The four areas total approximately two acres.

In December 1988, Initial Remedial Measures were conducted to remove approximately 15,000 pesticide cans and residual soils from the landfill. Also, four underground storage tanks were excavated and removed from the airstrip.

In August 1989, the Contamination Assessment (CA) for the Newberry site was completed by Camp, Dresser and Mckee (CDM) consultants. The CA report confirmed the presence of pesticide-contaminated soils and recommended the removal of contaminated soils to lower human health risk to acceptable levels. The main contaminant of concern for cleanup was toxaphene, which was detected in the soil at concentrations in excess of 50,000 ppm.

From August 12, to August 25, 1989 the FDER Emergency Response contractor, Hazards Environmental Services, removed approximately 1000 cubic yards of contaminated soil and debris. Soil samples were taken to verify the extent of soil contamination and to confirm the effectiveness of the excavation activities. Excavation of the recommended areas was conducted until confirmation soil samples revealed toxaphene levels below 50 mg/kg. The excavation was backfilled, seeded, and covered with straw. Quarterly analytical sampling of groundwater was performed by CDM for one year after soil removal. The Quarterly reports verified that the contamination was removed.

The Department expended $600,794.83 from the water Quality Assurance Trust Fund for investigation and cleanup.

NEWBERRY AIRSTRIP/LANDFILL
Newberry, Florida
County: Alachua
District: Northeast
Site Lead: Bureau of Waste Cleanup

Site Description and History

The Newberry Airstrip is located approximately 1/4 mile south of the southeastern corner of Newberry (approximately 1/2 mile from the landfill). Several businesses were in operation at the airstrip between the early 1970s and 1986, including the crop duster that disposed of empty pesticide cans in the landfill.

The Newberry Landfill is located one mile southwest of Newberry, Florida. An abandoned three acre limestone/phosphate mining pit was used as a dump site. The landfill contained a large number of empty 1- and 5-gallon pesticide containers that were placed in the landfill by a local crop dusting business that is now defunct. Municipal and domestic trash was also disposed, including automobile parts, appliances and construction debris. The Floridan Aquifer ranges from 10 to 60 feet below land surface and exists under water table conditions.

Threat

High concentrations of pesticides existed in soils at the airstrip. At the landfill, the Floridan Aquifer is contaminated with several pesticides and metals in levels that exceed Florida's drinking water standards.

Response Strategy and Status (July 1991)

An investigation at the airstrip was performed by the Florida Department of Agriculture and Consumer Services (DACS) in 1985. High concentrations of pesticides were discovered in soils on-site in areas that exhibited stressed vegetation.

An investigation at the landfill was performed by a FDER Operation Response Team in October 1985. The investigation indicated there were four main areas in the landfill that received waste; one of which contained mainly empty pesticide containers. The remaining three areas contain mostly municipal and domestic garbage, appliances and automobile parts. The four areas total approximately two acres.

Five monitor wells were installed around the landfill to determine the hydrogeology and water quality in the area. Groundwater analysis from one monitor well detected arsenic, chromium and mercury in concentrations that exceed state drinking water standards. Pesticides were detected in another monitor well in concentrations that also exceeded state standards.

The current property owners were not financially capable of conducting the required remedial activities. The Water Quality Assurance Trust Fund was used to conduct site activities.

In December 1988, Initial Remedial Measures were conducted to remove approximately 15,000 pesticide cans and residual soils from the landfill. Also, four underground storage tanks were excavated and removed from the airstrip.

In March 1989, a Contamination Assessment (CA) was begun to determine the magnitude and extent of contamination at the Airstrip and Landfill. In August 1989, the CA Report was completed and the presence of pesticide-contaminated soils was confirmed. In August 1989, approximately 1000 cubic yards of contaminated soils were removed from the airstrip and transported to a hazardous waste landfill. Subsequent sampling of the groundwater in the Floridan Aquifer indicated a decrease of metal and pesticide concentrations to below state drinking water standards and non-detection. Therefore, no further site remediation is likely to be necessary.

Schedule

Item	Target Date	On Schedule	New Target
Prepare Deletion Package	Jul 1991	No	Jul 1991

Reason for Change

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To: _____ Location: _____

To: _____ Location: _____

To: _____ Location: _____

From: _____ Date: _____

Interoffice Memorandum

TO: JOSEPH B. WHEATLEY RM 538D
PROJECT MANAGER

FROM: LARRY WRIGHT
FINANCE AND ACCOUNTING

SUBJECT: COST RECOVERY FOR NEWBERRY STATE ACTION SITE
MODULE #0945

DATE: JULY 10, 1991

ATTACHED IS THE REQUESTED INFORMATION FOR THE TOTAL COSTS INCURRED FOR THE NEWBERRY STATE ACTION SITE.

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT JANET PARRAMORE AT 488-0870.

DEPARTMENT OF ENVIRONMENTAL REGULATION
COST RECOVERY FOR NEWBERRY STATE ACTION SITE
MODULE #0945

COST	FYE 6/30/85	FYE 6/30/86	FYE 6/30/87	FYE 6/30/88	FYE 6/30/89	FYE 6/30/90	FYE 06/30/91	TOTAL
SALARIES				229.74	4,488.71	3,211.24	30.72	7,960.41
FRINGE				105.38	2,058.97	1,493.23	17.02	3,674.60
CONTRACTUAL					125,232.51	433,749.52	21,531.03	580,513.06
TRAVEL EXPENSES				164.35	341.60	1,656.42		2,162.37
OTHER					42.00	46.72		88.72
INDIRECT				184.25	3,599.92	2,586.05	25.46	6,395.67
TOTAL EXPENDITURES	0.00	0.00	0.00	683.72	135,763.71	442,743.17	21,604.23	600,794.83

R-586-6-5-4

SITE SCREENING REPORT
NEWBERRY LANDFILL
NEWBERRY, FLORIDA

Prepared Under
TDD NO. F4-8403-20
CONTRACT NO. 68-01-6699

Revision 0

FOR THE

AIR AND WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

JUNE 17, 1985

NUS CORPORATION
SUPERFUND DIVISION

Prepared By	Reviewed By	Approved By
Susan D. Levin	Philip Blackwell	Murray Warner, P.E.
Project Manager	Assistant Regional Project Manager	Regional Project Manage

NOTICE

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SITE SCREENING REPORT
NEWBERRY LANDFILL
NEWBERRY, FLORIDA

1.0 INTRODUCTION

On April 17, 1984, the Region IV Field Investigation Team (FIT) of the NUS Corporation conducted a site screening study at the Newberry Landfill located in Newberry, Florida. Susan Levin, Willie Smitherman, Donnie McCurry, and Carlos Riano conducted the study at the request of the U. S. Environmental Protection Agency, Region IV, Air and Waste Management Division in accordance with the instructions contained in the Technical Directive Document (TDD) F4-8403-20.

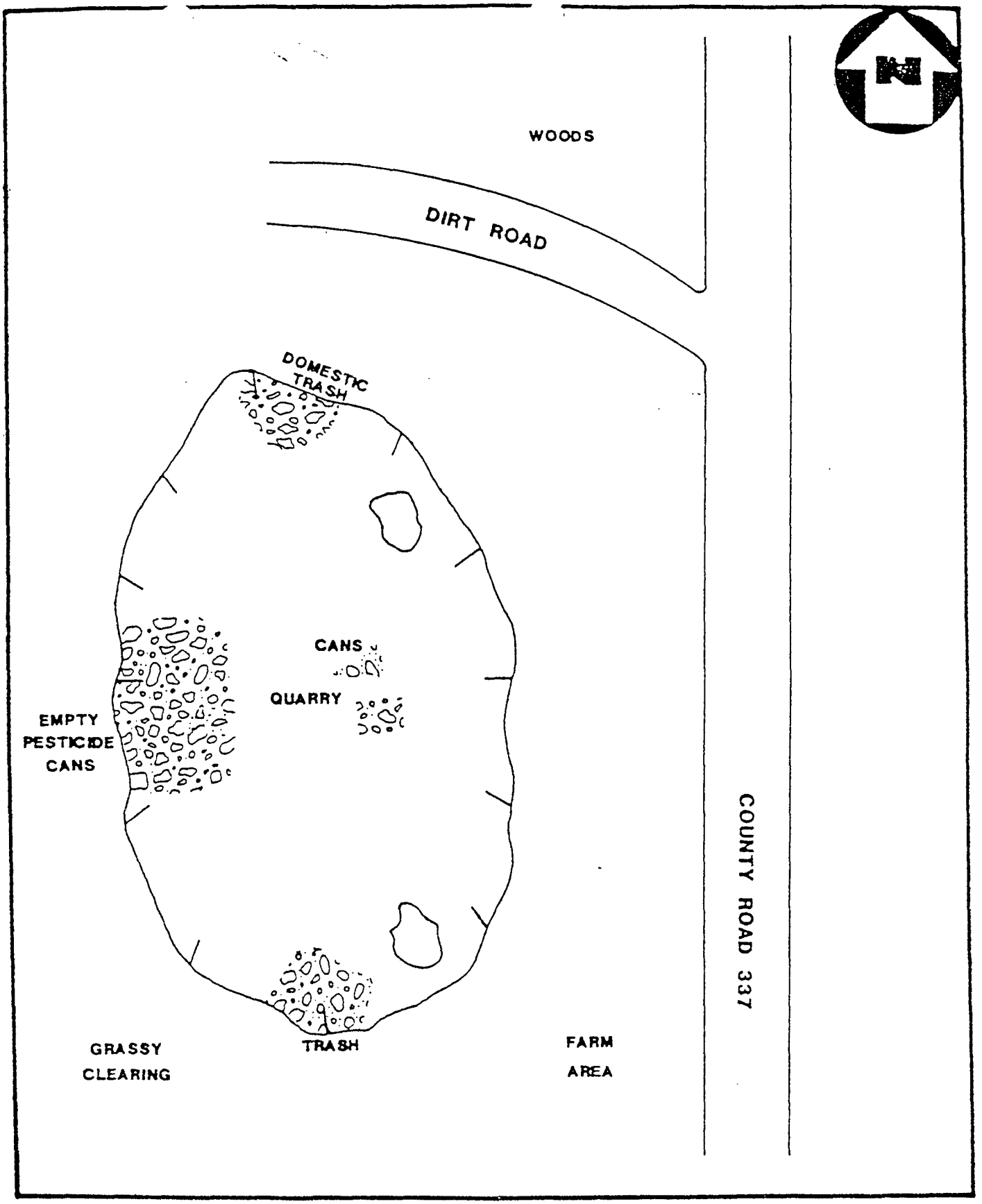
2.0 SITE CHARACTERIZATION

2.1 Site Description and History

The Newberry Landfill Site is located in southwest Alachua County, approximately one and a half miles west of the center of the city of Newberry. The landfill, as shown in Figure 1, is actually a large quarry (about 5 acres) surrounded by a farm, a large grassy area, and some woods. The property had been used by a crop dusting business until 1977. Empty pesticide cans were placed in the quarry along with a great deal of other household trash. The local office of the Florida Department of Environmental Regulation (Gainesville) had inspected the grounds in early 1984. At that time the property owner, Mrs. Margie Crocker, was told that the landfill was not permitted and that it might be a source of potential pollution from the empty cans. The State did not pursue the matter any further.

2.2 Hydrogeology

The site occurs in the outcrop area of the Alachua Formation, a mid-Pliocene series of bluish-gray clayey sands and sandy clays. This material appears to be the remnants of the Hawthorn Formation reworked by fluvial processes. The Alachua is approximately 25 to 35 feet thick at the site and is not considered an aquifer.



SITE LAYOUT
NEWBERRY LANDFILL
NEWBERRY , FLORIDA

FIGURE 1

NUS CORPORATION
A Halliburton Compar

Due to the absence of the Hawthorn Formation, the Alachua directly overlies the Crystal River Limestone Formation of the Ocala Group(1).

The Crystal River Limestone of upper Eocene age, a member of the Ocala Group, comprises the uppermost portion of the Floridan aquifer. The Crystal River is a fossiliferous limestone that has formed an essentially level karst plain. Karstification has apparently occurred since Oligocene times, and most of the sinkholes in the site area have been infilled with surficial material.

The limestone owes its shallow occurrence (within 35 feet of land surface) to the Ocala Uplift. This regional structure is an arch whose axis trends north-south and transverses southwest Alachua County. Zones of faulting tectonically associated with the uplift are concentrated along the flanks of the arch, east and west of the site(1).

The Floridan aquifer is many hundreds of feet thick in the vicinity of the site. Due to the lack of a confining layer in the western part of the county, the aquifer is under water table conditions at the site. Water occurs in solution-widened fractures and caverns, and wells intersecting these water-bearing features yield several hundred gallons per minute to wells for industrial, municipal, and domestic purposes(2).

3.0 OBJECTIVES

The purpose of this site screening study was to collect water and soil/sediment samples from around the site in order to determine the identities and concentrations of contaminants, if any, which may be present.

4.0 SCOPE

The sampling locations were chosen to target the most likely contamination sources. Samples were collected from property owned by Ms. Margie Crocker. Subsurface soil samples were not collected during this investigation, nor did this study include a geophysical evaluation of the site.

5.0 FIELD INVESTIGATION

5.1 Sampling Locations

The site screening study at the Newberry Landfill consisted of the collection of three soil, two sediment, and two water samples.

Table 1 lists the sample codes and descriptions and Figure 2 identifies the sampling locations. Water samples were collected from two ponds; one on the north end of the quarry, the other on the southeast end. Sediment samples were also collected at these two locations. The three soil samples were collected at the base of the quarry, the bottom of a hill, and from an area on the hillside where several pesticide cans were piled. The field team did not detect any strong odors at this site.

All of the cans observed in the quarry, whether pesticide, motor oil, or household, plastic or metal, appeared empty.

5.2 Field Measurements

Temperature and pH measurements were obtained for the water samples collected from the two ponds. The pH of the water sample from the pond at the north end of the quarry was 6.3 standard units at a temperature of 15.9° C, while the southeast pond sample had a pH of 6.4 standard units at 16.9° C.

5.3 Laboratory Analyses

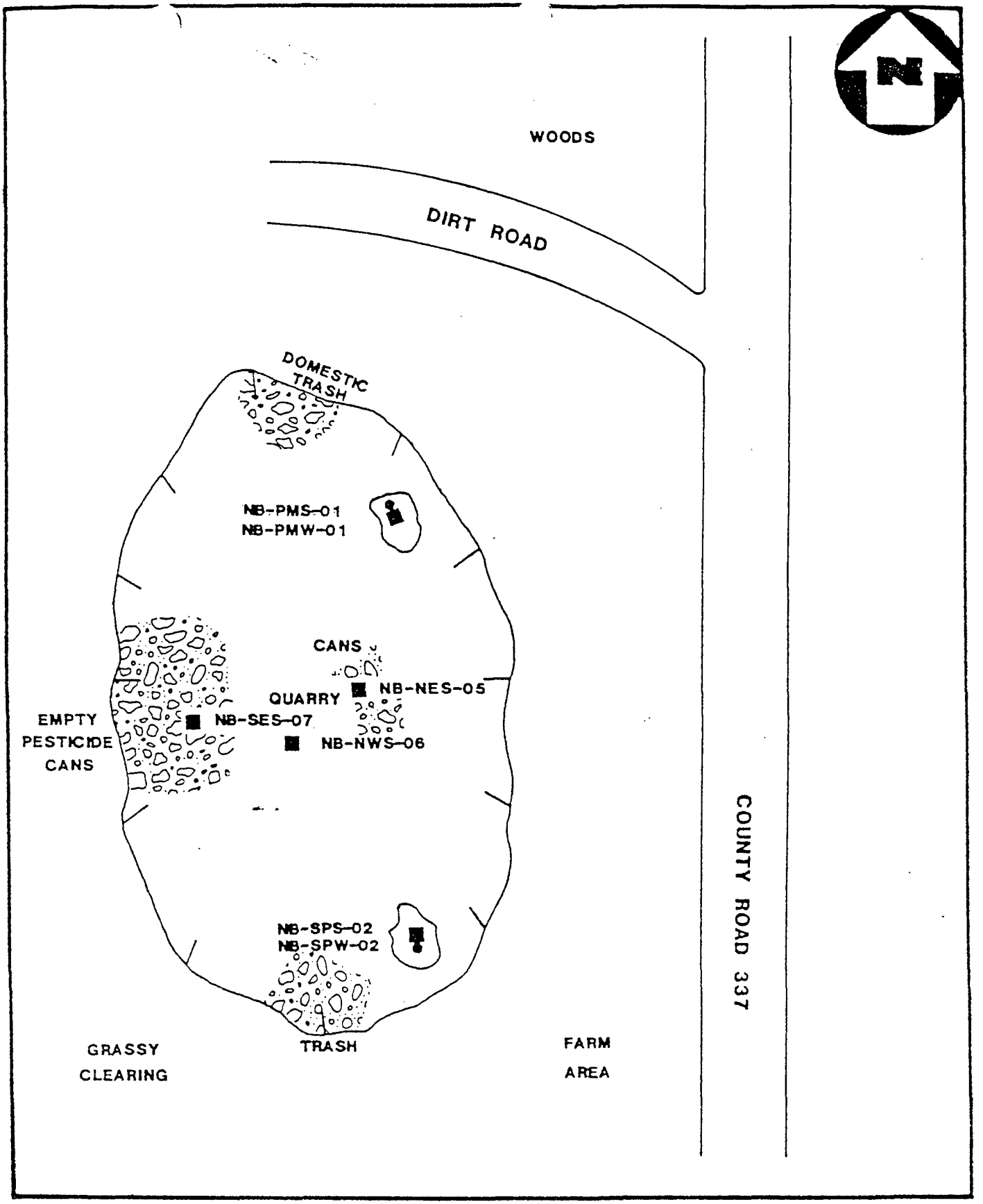
Analytical services for the environmental soil/sediment and water samples collected during this site screening investigation were provided by laboratories contracted through the U. S. Environmental Protection Agency Contract Laboratory Program (CLP). A review of the quality control information indicated that, with one exception (extractable organics), all of the data for the water samples are invalid; the possibility of false positives and/or negatives exists. A resampling and analysis would be required to confirm the data.

Table 1
Newberry Landfill
Newberry, Florida
Sample Locations and Descriptions

Code	Type	Description
NB-PMW-01 NB-PMS-01	Water/sediment	Pond north end of quarry
NB-SPW-02 NB-SPS-02	Water/sediment	Pond southeast end of quarry
NB-NES-05	Soil	Base of quarry in between piles of empty cans
NB-NWS-06	Soil	Base of hill in a depression area
NB-SES-07	Soil	Hillside, amongst pesticide cans

Code explanation:

NB Newberry Landfill
S Soil/sediment
W Water
* The NB designation will not be used in the analytical data tables.



SAMPLE LOCATIONS
NEWBERRY LANDFILL
NEWBERRY , FLORIDA

LEGEND

■ SOIL

● WATER

FIGURE 2

NUS CORPORATION
A Halliburton Company

The inorganic data (metals, cyanide) for the water samples also did not pass the quality control checks and are invalid. A resampling and analysis would be required to confirm the data.

All of the organic data for the soil/sediment samples are valid. However, the data has undergone a limited review and should be used for site screening purposes only. The inorganic data for the soil/sediment samples are invalid. The data sheets are attached as Appendix A.

6.0 ANALYTICAL RESULTS OF SAMPLES

6.1 Water Samples

There were no extractable organic compounds detected above the minimum detection limit of 50 ug/l in the two pond samples.

6.2 Soil/Sediment Samples

A total of 20 organic compounds were detected in four of the five soil/sediment samples. No compounds were detected in the sediment sample collected from the pond located at the southeast end of the quarry. Table 2 indicates that 17 organic compounds were detected in the sample collected from the hillside among all of the empty pesticide and household trash cans. Sixteen of the compounds identified in the hillside soil sample (SES-07) are classified as polynuclear aromatic hydrocarbons, which are coal tar derivatives associated with the wood preservative creosote[3]. Trichloroethylene was detected at very low concentrations in the samples collected from the base of the quarry (NES-05) and bottom of the hill (NWS-06). This chemical is used as an intermediate in the production of pesticides, paints, and varnishes[4].

Small quantities of two compounds, methyl butyl ketone and methyl isobutyl ketone were detected in the sample collected from the pond (PMS-01) located on the north end of the quarry. Methyl isobutyl ketone is used as a solvent in paints, varnishes, and lacquers[4]. Methyl butyl ketone is likewise used as a solvent.

Table 2
Newberry Landfill
Newberry, Florida
Organics - Dry Weight
Soil/Sediment Samples (ug/kg)
Sampled 4/17/84

Compound	Hillside SES-07	Base of Quarry NES-05	Bottom of Hill NWS-06	Pond North End PMS-01	Pond Southeast End SPS-02
Phenanthrene*	150,000J	-	-	-	-
Naphthalene*	4,000J	-	-	-	-
Acenaphthylene*	10,000J	-	-	-	-
Acenaphthene*	10,000J	-	-	-	-
Fluorene*	10,000J	-	-	-	-
Anthracene*	30,000J	-	-	-	-
Fluoranthene*	240,000	-	-	-	-
Pyrene*	170,000	-	-	-	-
Benzo(A)anthracene*	110,000	-	-	-	-
Chrysene*	62,000	-	-	-	-
Benzo(B)fluoranthene*	110,000	-	-	-	-
Benzo-A-pyrene*	130,000	-	-	-	-
Indeno(1,2,3-CD)pyrene*	40,000J	-	-	-	-
Benzo(GHI)perylene*	30,000J	-	-	-	-
Dibenzofuran	4,000J	-	-	-	-
2-methylnaphthalene	4,000J	-	-	-	-
Trichloroethylene*	-	10J	7J	-	-
Methyl butyl ketone	-	-	-	42	-
Methyl isobutyl ketone	-	-	-	20J	-
Petroleum Product	N	-	-	-	-

* Priority pollutant
J Estimated value
\- Material was analyzed for but not detected
N Presumptive evidence of presence of material

7.0 SUMMARY OF ANALYTICAL RESULTS

The majority of the analytical data received from the contract laboratories are invalid. The only valid data were organic compounds detected in the soil/sediment samples and extractable organics in the water samples.

Several polynuclear aromatic hydrocarbons were identified in the soil sample collected from the hillside, among a number of empty cans. It is quite possible that included within the pile of cans and miscellaneous trash were some empty cans of wood preservative. The fact that these chemicals were not found anywhere else suggests that their presence is an isolated incident.

The presence of trichloroethylene and the two solvents in the three soil/sediment samples (NES-05, NWS-06, PMS-01) is probably due to the washing out over time of residues from the cans strewn about the quarry. It is possible that rainfall runoff has mixed with the contents of some of the now empty household cans and spilled onto the soil.

8.0 METHODOLOGY

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation were in accordance with the standard operating procedures as specified in Sections 3, 4, and 6 of the Water Surveillance Branch Standard Operating Procedures and Quality Assurance Manual (Draft); United States Environmental Protection Agency, Region IV Environmental Services Division, August 29, 1980 and all revisions to the SOP addressed in the following correspondences:

Blackwell, P. (October 21, 1983) Changes in Samplin Procedures.
Wilson, C. (December 14, 1983) Region IV Sampling SOP Revisions[5].

All laboratory analyses and laboratory quality assurance procedures used during this investigation were in accordance with standard procedures and protocols as specified in the Analytical Support Branch Operations and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental

Services Division; April 1982 or as specified by the existing United States Environmental Protection Agency standard procedures and protocols for contract analytical laboratory program[6].

References

1. Williams, K. E., Nichols, D. and Randazzo, A. F. 1977. Geology of the western part of Alachua County, Florida. Florida Bureau of Geology Report of Investigation 85.

2. Clark, W. E., Musgrove, R. H., Menke, C. G., and Cagle, J. W., Jr., 1964. Water Resources of Alachua, Bradford, Clay, and Union Counties, Florida. Florida Bureau of Geology Report of Investigation 35.

3. The Characterization of Wood-Preserving Creosote by Physical and Chemical Methods of Analysis. 1974. USDA Forest Service Research Paper FPL 195.

4. Sittig, Marshall. 1981. Handbook of Toxic and Hazardous Chemicals, Noyes Publications.

5. Water Surveillance Branch Standard Operating Procedures and Quality Assurance Manual (Draft); U. S. Environmental Protection Agency, Region IV, Environmental Services Division; August 29, 1980.

6. Analytical Support Branch Operations and Quality Assurance Manual; U. S. Environmental Protection Agency, Region IV, Environmental Services Division; April 1982.

NEWBERRY LANDFILL
FLD981004054
PRELIMINARY ASSESSMENT

A. Site Description: The Newberry Landfill is located in southwest Alachua County, about one and one-half miles west of Newberry, Florida. The landfill is a former quarry about 5 acres in size (Ref. 1).

B. Description of Hazardous Conditions, Incidents, and Permit Violations: Prior to 1977, the property was used by a crop dusting business. After that time, the quarry was landfilled with household trash and hundreds of empty pesticide cans (Ref. 1; Ref. 2). In early 1984, the Florida DER (Gainesville Office) conducted an inspection at the site. The property owner, Mrs. Margie Crocker, was notified that the landfill was not permitted and the empty pesticide cans could be a source of potential pollution (Ref. 1).

In April 1984, the NUS Corporation Field Investigation Team (FIT), Region IV, conducted a site screening study at the Newberry Landfill. Samples were analyzed by laboratories of the EPA's Contract Laboratory Program (CLP). With the exceptions of organics in soil and extractable organics in water, the analytical data was invalid. Significant detections included trichloroethylene, methyl butyl ketone, and methyl isobutyl ketone (Ref. 1).

C. Nature of Hazardous Materials:
(Contaminant: points of attack)

- Methyl butyl ketone: central nervous system, skin, respiratory system.
- Methyl isobutyl ketone: respiratory system, eyes, skin, central nervous system.
- Trichloroethylene: respiratory system, heart, liver, kidneys, central nervous system, skin (Ref. 3).

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D. Routes of Contamination: Groundwater is the major route of contamination.

E. Possible Affected Population and Resources: The Floridan aquifer is under water table conditions at the site due to the lack of a confining layer in this part of the county (Ref. 1, p. 3). The municipal supply well for the City of Newberry is located approximately one mile from the site (Ref. 2). This well serves a population of 2200 persons and is approximately 145 feet deep (Ref. 4). Additionally, groundwater is used for irrigation in the area (Ref. 2).

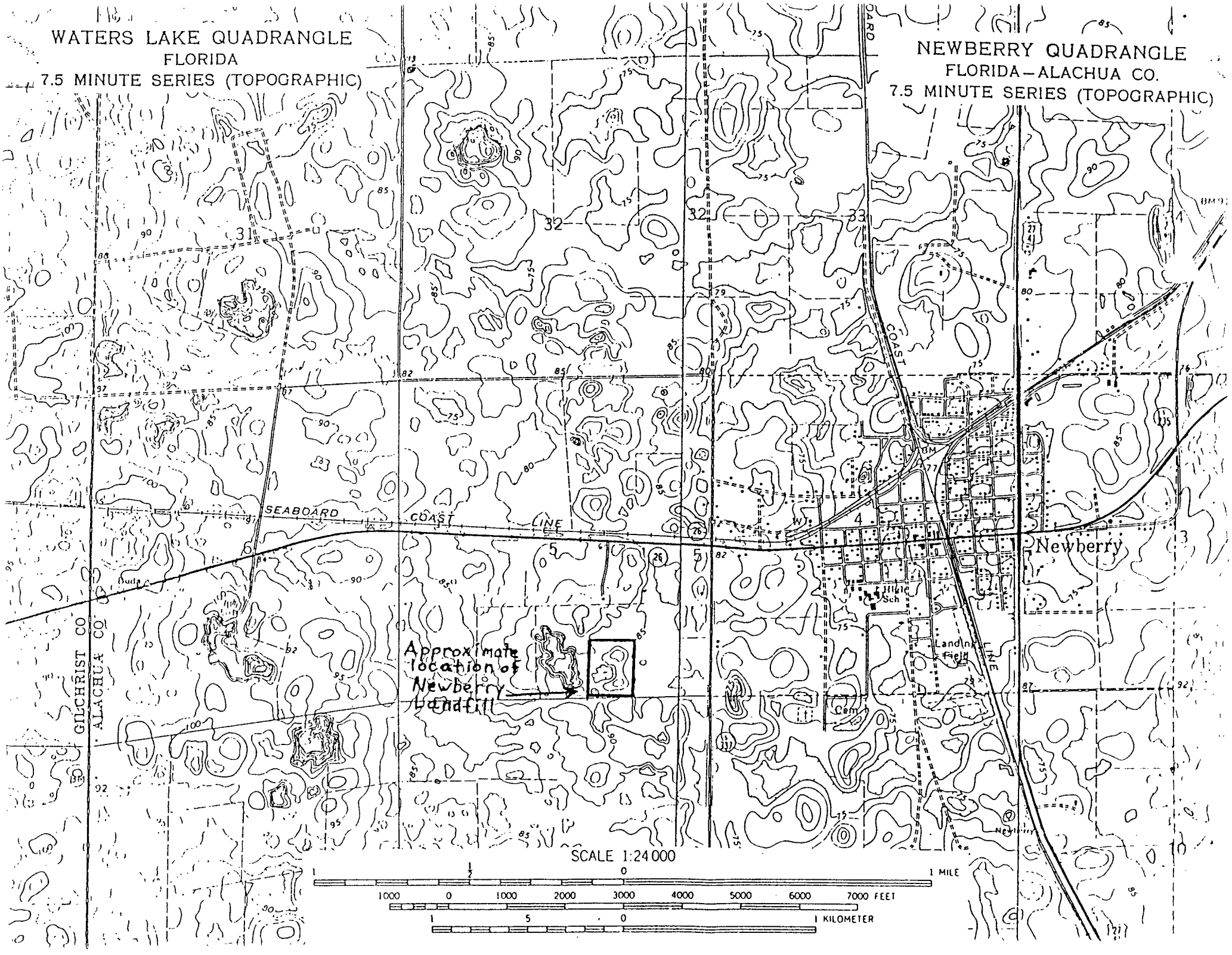
REFERENCES

1. NUS Corporation, 1985. Field Investigaton Team (FIT), Region IV. Site Screening Report, Newberry Landfill, June 17, 1985.

2. USEPA, 1985. Potential Hazardous Waste Site, Site Inspection Report, EPA Form 2070-13. Newberry Landfill, Newberry, Florida, June 17, 1985.

3. Sittig, Marshall, 1981. Handbook of Toxic and Hazardous Chemicals. Noyes Publications, Park Ridge, N.J., 1981.

4. Hartzog, Grady, 1987. City Manager, City of Newberry, Florida. Personal communication with Katharine Siders, NUS Corporation, September 11, 1987. Re: Municipal Water Supply for the city of Newberry.


WATERS LAKE QUADRANGLE
FLORIDA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NEWBERRY QUADRANGLE
FLORIDA—ALACHUA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SEABOARD COAST LINE
COAST LINE
Newberry
GILCHRIST CO
ALACHUA CO
Approximate location of Newberry Landfill
SCALE 1:24 000
1 MILE
7000 FEET
1 KILOMETER

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
FL	D981004054

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Newberry Landfill	State Road 337

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Newberry	FL	32669	Alachua	001	02

09 COORDINATES LATITUDE	LONGITUDE
29 38 22.__	82 37 42.__

10 DIRECTIONS TO SITE (Starting from nearest public road)

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Margie Crocker (Current Owner)	P.O. Box 667

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Newberry	FL	32669	( )

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 4/17/84 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): NUS Corporation

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1977 (BEGINNING YEAR) | _____ (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Polynuclear aromatic hydrocarbons ; Trichloroethylene
Methyl Butyl Ketone ; Methyl Isobutyl Ketone

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Irrigation water could potentially be contaminated via groundwater under the quarry site.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Bart Reedy	EPA	(404) 347-2234

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Timi M. Kennedy		NUS Corp.	(404) 938-7710	8 / 4 / 87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
FL	D981004054

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- X A SOLID
- B POWDER FINES
- C SLUDGE
- X E SLURRY
- F LIQUID
- G GAS
- D OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE

(Measures of waste quantities must be independent)

- TONS _____
- CUBIC YARDS _____
- NO OF DRUMS cans 100's

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- X E SOLUBLE
- F INFECTIOUS
- G FLAMMABLE
- H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Trichloroethylene	79-01-6	Landfill	10	ug/kg
OCC	Methyl butyl ketone	999	Landfill	42	ug/kg
OCC	Methyl isobutyl ketone	999	Landfill	20	ug/kg
OCC	Polynuclear aromatic hydrocarbons	999	Landfill	4,000-240,000	ug/kg

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

Analytical results from site screening conducted on 4/17/84.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
FL	D981004054

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The Floridan aquifer is under water table conditions at the site due to the lack of a confining layer in the area.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

No surface water features in immediate area.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None except for property owners.

01 ☐ F. CONTAMINATION OF SOIL — 02 ☒ OBSERVED (DATE: 4/1/84) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

Contamination by several organic compounds.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The municipal well for the City of Newberry is approximately one mile from the site. The well is approximately 145 feet deep and serves an estimated 2200 persons.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
FL	D981004054

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include number(s) of species)

None observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Empty cans scattered around site.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☒ OBSERVED (DATE: 4/17/84) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Landfill was unpermitted.

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Site is located near farming area. Irrigation water could potentially be contaminated via groundwater under quarry site.

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

Site screening study 4/17/84

Environmental Protection
Agency

Remedial Response
Washington, DC 20460

EPA Form 2070-13

EPA

Potential Hazardous Waste Site

Site Inspection Report

Site Inspection Report

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

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
FL	D98100405

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Newberry Landfill	State Rd 337

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG. DIST.
Newberry	FL	32669	Alachua	001	02

09 COORDINATES LATITUDE	LONGITUDE
___ ___ ___ . ___	___ ___ ___ . ___

10 TYPE OF OWNERSHIP (Check one)
[X] A. PRIVATE [ ] B. FEDERAL _____ [ ] C. STATE [ ] D. COUNTY [ ] E. MUNICIPAL
[ ] F. OTHER _____ [ ] G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
4 / 17 / 84 (MONTH DAY YEAR)	[ ] ACTIVE [X] INACTIVE	1977 (BEGINNING YEAR) ____ (ENDING YEAR) ____ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
[ ] A. EPA [X] B. EPA CONTRACTOR NUS Corporation (Name of firm) [ ] C. MUNICIPAL [ ] D. MUNICIPAL CONTRACTOR _____ (Name of firm)
[ ] E. STATE [ ] F. STATE CONTRACTOR _____ (Name of firm) [ ] G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Susan Levin	Environmental Scientist	NUS Corp	(404) 938-771(
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Willie Smitherman	Technician	NUS	(404) 938-771(
Donnie McCurry	Technician	NUS	(404) 938-771
Carlos Riano	Technician	NUS	(404) 938-77
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
[X] PERMISSION [ ] WARRANT	1000	Cloudy, light drizzle

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
David Scott	Dept of Envr. Regulation - Gainesville	904 377-7521

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Susan Levin	EPA Contractor	NUS Corp	404-938-7720	6 / 17 / 85 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [X] A. SOLID
- [ ] B. POWDER, FINES
- [ ] C. SLUDGE
- [X] E. SLURRY
- [ ] F. LIQUID
- [ ] G. GAS
- [ ] D. OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
Cans NO. OF DRUMS 100's

03 WASTE CHARACTERISTICS (Check all that apply)

- [X] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [X] D. PERSISTENT
- [X] E. SOLUBLE
- [ ] F. INFECTIOUS
- [ ] G. FLAMMABLE
- [ ] H. IGNITABLE
- [ ] I. HIGHLY VOLATILE
- [ ] J. EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	20-42	UG/KG	Soil from hillside; base of quarry
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	4000 → 40,000	UG/KG	Soil from hillside
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

Analytical results from site screening conducted on 4/17/84

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No surface water features in immediate area.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
none

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
none

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
none except for property owners

01 ☐ F. CONTAMINATION OF SOIL — 02 ☒ OBSERVED (DATE 4/12/84) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION
Contamination by several organic compounds

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
N/A

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
N/A

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE. _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

none observed

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE. _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names of species)

none observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

not apparent

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids/Leaking drums) — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

empty cans scattered around site

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE. _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

not observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE. _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☒ OBSERVED (DATE 4/17/84) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Landfill was unpermitted

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Site is located near farming area. Irrigation water could potentially be contaminated via groundwater under quarry site.

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

site screening study 4/17/84

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II. PERMIT INFORMATION

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

N/A

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP	100's of cans	
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)
- ☐ A. INCINERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER
- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE
~5 (Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one) — site set off of county road.
- ☐ A. ADEQUATE, SECURE
- ☒ B. MODERATE
- ☐ C. INADEQUATE, POOR
- ☐ D. INSECURE, UNSOUND, DANGEROUS

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

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☐ YES ☒ NO

02 COMMENTS
access only by property owners

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sampling results)

FL Dept of Environmental Regulation - Gainesville
personal communication

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ☐
NON-COMMUNITY (private)	C. ☐	D. X

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. X

03 DISTANCE TO SITE

A. _____ (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

X A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER _____

03 DISTANCE TO NEAREST DRINKING WATER WELL City of Newberry well ~ 1 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
40 (ft)	generally SW	_____ (ft)	_____ (gpd)	☐ YES X NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

10 RECHARGE AREA		11 DISCHARGE AREA	
X YES ☐ NO	COMMENTS	☐ YES X NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL X D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
existence of small ponds	☐	_____ (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN (city limits of Newberry)

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. _____ NO OF PERSONS	B. _____ NO OF PERSONS	C. 1900 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION

1 (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)

rural, farming community

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

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^{-6} 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	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
outcrops (ft)	(ft)		

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE		
		SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
(in)	(in)	%		%

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

10

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A _____ (mi)	B _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: _____

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 _____ (mi)	C. immediately adjacent (mi) D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site is a quarry surrounded by farm land

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

Site Screening Study 4/17/84

Denny McCoy - Alachua County Health Dept. 6/18/85

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER	2	organics - BCA/Tech inorganics - Radian	1-7-84
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL/sediment	5	organics - Acurex inorganics - Radian	1-7-84
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
pH	south pond - 6.43 SU north pond - 6.29 SU
temp	south pond - 16.9°C north pond - 15.9°C

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

02 IN CUSTODY OF NUS Corporation
(name of organization or individual)

03 MAPS
☐ YES
☐ NO

04 LOCATION OF MAPS

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

Site Screening Study 4/17/84

EPA FORM 2070-13 (7-81)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

EPA

II. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II. CURRENT OWNER(S)

01 NAME: MARGIE CROCKER | 02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): P.O. Box 667 | 04 SIC CODE:
05 CITY: Newberry | 06 STATE: FL | 07 ZIP CODE: 32669

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

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

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

PARENT COMPANY (If applicable)

08 NAME: | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

08 NAME: | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

08 NAME: | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

08 NAME: | 09 D+B NUMBER:
10 STREET ADDRESS (P.O. Box, RFD #, etc.): | 11 SIC CODE:
12 CITY: | 13 STATE: | 14 ZIP CODE:

III. PREVIOUS OWNER(S) (List most recent first)

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

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

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

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

IV. REALTY OWNER(S) (If applicable, list most recent first)

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

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

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

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

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

FL DER-Gainesville files

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
N/A	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

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

FL DEP Files - Gainesville

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
N/A	
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 (Cite specific references, e.g., state files, sample analysis, reports)

FL DER - Gainesville

EPA

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

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ O. EMERGENCY DIKING, SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

EPA

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

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION N/A

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

Site screening study 4/17/84
FL DER files

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION [X] YES [ ] NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

Florida Department of Environmental Regulation - Gainesville Office inspected the grounds in early 1984.

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

FL DER files

EPA FORM 2070-13 (7-81)

DELETION CRITERIA CHECKLIST

Site Name: Newberry Airstrip / Landfill Site
Location: One mile southwest of Newberry, Florida

4 An existing source of contamination has been removed and data indicates that any residual contamination has been contained.

A. Type of source removed: Approximately 15,000 empty pesticide containers, municipal and domestic garbage, appliances and automobile parts were removed from the landfill. Four underground storage tanks and 1000 cubic yards of contaminated soils were removed from the Airstrip.

B. Date of removal: December 1988 approximately 15,000 pesticide cans and residual soils from the landfill and four underground storage tanks were excavated and removed from the Airstrip. In August of 1989, 1000 cubic yards of contaminated soils were removed.

C. Name of firm which performed removal: Contractor Hazards Environmental Service, Inc;

D. Location of disposed material: Hazardous waste landfill (Chemical Waste Management, Inc.), Emmelle, Alabama;

E. Type and amount of residuals remaining at site:
1. Soils - None, all soils were removed that revealed toxaphene levels at 50 mg/Kg and above.
2. Groundwater - None, metals and pesticides concentrations in groundwater for the Landfill and Airstrip are at levels below state drinking water standards.

F. How are residual(s) being contained? Residual contaminants are at concentrations below cleanup goals;

G. Other: Project Expenses **$600,794.83**

Submitted by: Joseph B. Wheatley, Project Manager Reviewed by: Don Harris, Environmental Supervisor

Concur: David Vann 7/31/91, Environmental Administrator, Hazardous Waste Cleanup Section Concur: James J Crane, Environmental Administrator, Technical Review Section

Concur: 8/29/91, Chief, Bureau of Waste Cleanup

FO7083_T0858

BUREAU OF WASTE CLEANUP

AUG 10 1995

TECHNICAL REVIEW SECTION

FINAL REPORT
SITE INSPECTION PRIORITIZATION
NORTH FLORIDA CROP DUSTING SITE
NEWBERRY, ALACHUA COUNTY, FLORIDA

FLD106487754

July 1995

Prepared for:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Waste Cleanup
Site Screening Superfund Subsection
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recycled paper

1. INTRODUCTION AND PURPOSE

This site inspection prioritization (SIP) report for the North Florida Crop Dusting (NFCD) site has been prepared by Ecology and Environment, Inc., for the Florida Department of Environmental Protection (formerly Florida Department of Environmental Regulation and Florida Department of Environmental Protection; hereafter referred to as FDEP) under Contract number HW-148. The purpose of the SIP is to obtain the information work is warranted pursuant to the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980.42 United States Code 9601 *et seq.*, as amended by the Superfund Amendments and Reauthorization Act of 1986, Public Law 99-499, and Florida Statutes, Chapter 403. This SIP report has been developed based on the current CERCLA site file including the April 1991 desktop site screening inspection (SSI) report [28]. The recommendations and conclusions of this SIP are subject to change pending receipt of additional information and/or quality assurance review by the United States Environmental Protection Agency (EPA).

2. SITE BACKGROUND/HISTORY

2.1 SITE DESCRIPTION

The NFCD site (also known as the North Florida Agricultural Services, Inc., and as the Newberry Airstrip) is located east of County Road 337 and south of State Road 26 in Newberry, Alachua County, Florida (latitude 29°38'01"N and longitude 82°37'21"W, Section 9, Township 10 South, Range 17 East). Figure 1 shows the site location on the United States Geological Survey (USGS) Sanford, Florida, 7.5-minute series topographic quadrangle map. The NFCD site currently is inactive [28].

According to a 1985 inspection report prepared by the Florida Department of Agriculture and Consumer Services (FDACS) the operational area of the NFCD site included a 25-square-foot mixing/loading pad. The pad was constructed of limerock and was equipped with a drain that discharged into a 20-square-foot percolation pit. Reportedly, the pit also was used for the burning of household trash [1].

Several buildings were located on the site when it was in operation; however, they have been removed and only the concrete foundations remain [11]. In addition, four underground storage tanks (USTs) were located on the site (the site file information does not specify their location). The tanks were removed in 1988 [11,46]. Currently, three mobile homes are located on or near the former airstrip [9,21,38]. A site map is presented on Figure 2.

In July 1988, FDEP combined the NFCD site with the Newberry Landfill because of the close proximity of the sites and the similarity of contamination found at these sites [16]. Both site locations are shown on Figure 1. In addition, it appears that NFCD and Newberry Landfill also were owned by the same family [1,21,28,38]. The Newberry Landfill reportedly was used for dumping pesticide containers associated with one or more crop dusting operations that existed at the NFCD site [1,21,38].

The Newberry Landfill site is located in southwest Alachua County, approximately 1.5 miles west of the center of the City of Newberry. The landfill is a 3- to 5-acre limestone/phosphate mining pit surrounded by a farm, a large grassy area, and some woods. The unpermitted landfill was used until 1977 for the disposal of empty pesticide cans and municipal and domestic trash [21,46].

2.2 OWNERSHIP HISTORY

According to the site file information, the NFCD site is owned by Dovie Crocker and was leased to NFCD [11,28]. FDEP reports and internal memos state that crop dusting operations began at the facility in the 1970s. The property owners, the Crockers, have contended that operations began in the 1960s [11]. The airstrip was not visible in a 1971 Florida Department of Transportation aerial photograph of the area [38]. However, during a 1988 phone conversation with an FDEP representative the Newberry City Manager stated that Randolph "C.R." Crocker used the airstrip in the 1960s. The airstrip was leased to Mike Sneeringer of Mike's Crop Dusting from 1974 to 1984. Southern Crop Dusting used the airstrip from 1984 to 1986 [38].

It is unclear from site file information to determine when NFCD began operations at the site. Based on current file information, it appears that NFCD and one or more other crop dusting services may have operated at the site at the same time [11,28,38]. NFCD changed its name to North Florida Agricultural Services in approximately 1985. North Florida Agricultural Services was owned by Olav Helgerud, ceased operations at the site in 1987 or early 1988, and is reported to have moved to Alachua [11].

Land surrounding the airstrip and the unpermitted Newberry Landfill were owned by Mrs. Margie Crocker [9,21]. Mrs. Crocker sold lots to three families in 1988, who placed mobile homes and potable wells on the three lots near the airstrip [9].

2.3 OPERATIONAL HISTORY

The site file does not contain information regarding waste handling practices by any of the crop dusting services that operated at the site except NFCD. According to the 1985 FDACS inspection report, pesticide-contaminated rinsate generated during cleaning of the airplane tanks was discharged into an unlined pit and onto the ground at the site [28]. Pesticide solutions also were loaded and unloaded from the planes on a limerock pad, which had a drain to collect runoff. This drain lead to the unlined pit, approximately 50 feet south of the pad [1]. According to the FDACS, a total of six areas of soil contamination and or stressed vegetation have been identified at the site [12,28,45]. Reportedly, other crop dusting operations also used the airfield and may have disposed of pesticide waste residues during its period of operation [11,12,28,38,46].

In September 1986, North Florida Agricultural Service, Inc., (a.k.a NFCD) was cited for using registered pesticides in a manner inconsistent with their labeling [1]. Some of the products listed in the citation included Prowl, Butoxone, Nudrin, and Parathion [1]. Soil samples collected in areas of stressed vegetation at the airstrip were found to contain Toxaphene, Methyl Parathion, Carbaryl, Captafol, Lindane, Chlorthalonil, Chlorpyrifos, Pendimethalin, Permethrin, Propoxur (a metabolite of Captafol), and Fenvalerate [1]. Analytical results of this sampling event is discussed in Section 4.

The unpermitted Newberry Landfill was used by a crop dusting business until 1977 [21,46]. The site file does not specify which of the crop dusting services used the landfill. Empty pesticide cans were placed in the quarry along with other municipal and domestic trash including automobile parts, appliances and construction debris [46].

2.4 REGULATORY/PERMITTING/INVESTIGATIVE HISTORY

A chronological listing of regulatory/permitting/investigative events at the NFCD site follows:

- **June 17, 1985**. NUS Corporation completed a Site Screening Report for the Newberry Landfill [21].

- **August and September 1985.** An investigation at the Newberry airstrip was performed by FDACS. High concentrations of pesticides were discovered in soils on site in areas that exhibited stressed vegetation. Violations of the Florida Pesticide Law also were noted; the majority of the violations were related to the use of registered pesticides in a manner inconsistent with the labeling [1].

- **October 1985**. An investigation was performed at the Newberry Landfill by FDEP. The investigation included the identification of

burial areas and contents of the wastes disposed of into the landfill [46].

- **January 1987**. FDEP installed five monitoring wells around the Newberry Landfill to determine the hydrogeology and water quality in the area [2,46].

- **January 14, 1988.** Because the property owners were not financially capable of conducting the required remedial activities, FDEP's Northeast District requested that the Water Quality Assurance Trust Fund be used to fund the remedial actions required at the site [37].

- **July 15, 1988.** FDEP's Northeast District requested that the NFCD site be combined with the Newberry Landfill site because of their close proximity and similar contaminants [16].

- **October 1988.** Three private wells located adjacent to the NFCD site were sampled and tested for pesticides and heavy metals. No pesticides were detected and metals concentrations were within expected ranges [13].

- **December 1988.** Initial Remedial Measures were conducted by Hazards Environmental Services to remove approximately 15,000 pesticide cans and residual soils from the Newberry Landfill. Also, four USTs were excavated and removed from the airstrip [46].

- **March 1989.** A Contamination Assessment (CA) was initiated by Camp, Dresser and McKee, Inc., (CDM), under contract to FDEP, to determine the magnitude and extent of contamination at the NFCD site and Newberry Landfill [22,24,46].

- **August 1989.** The CA Report (CAR) was completed and the presence of pesticide-contaminated soils was confirmed. Approximately 1,000 cubic yards of contaminated soils were removed from the airstrip and transported to a hazardous waste landfill. Subsequent sampling of the groundwater in the Floridan aquifer indicated a decrease of metal and pesticide concentrations to below state drinking water standards and non-detection [22,24,46].

- **April 1991.** A SSI Report was completed by C-E Environmental, under contract to FDEP, for the NFCD site [28].

- **July 1991.** The combined NFCD/Newberry Landfill site was evaluated for delisting from the State Action Sites List. As a result, it was concluded that the site no longer presented a human health or environmental risk. The delist package was approved in August 1991, and no additional regulatory actions have been initiated by the state [46].

3. SITE ENVIRONMENTAL SETTING

3.1 SURROUNDING AREAS

Land use in the site vicinity is primarily agricultural, including pastureland and commercial food crops. Crops grown in the area include peanuts, corn, and watermelon [7,25]. The City of Newberry's sewage treatment plant is located about 1,000 feet east of the site [3,9]. The residential section of Newberry is located about 4,000 feet northeast of the site [5].

The site is located in a rural area that is not densely populated [5]. However, three residences (mobile homes) are located near the site, one of which is reportedly on the former air strip [1,9,12].

3.2 CLIMATOLOGY

The climate of Alachua County is characterized by long, warm summers and mild winters. High temperatures in the summer are generally in the 90s, but seldom exceed 100°F. In winter, frost and freezing temperatures normally occur several times; however, temperatures below 20°F are rare. The mean annual precipitation for Alachua County is approximately 53 inches. The 2-year, 24-hour rainfall for the area is 4.5 inches [42,65].

3.3 SURFACE WATER DRAINAGE

The NFCD site is located within the Brooksville Ridge Marginal Zone. This zone is a low, slightly undulating limestone karst plain that characteristically includes a high density of sinkhole collapse features, an absence of streams, and relatively few perched ponds. Elevations in the area average 85 feet above mean sea level (MSL). This area of Alachua County is devoid of stream channels. Drainage is almost entirely subsurface where infiltrating rainfall migrates through sandy soils and into sinkholes or directly into the underlying limestones [2,22,24]. Because of the permeable and well drained nature of the soils in the vicinity of the site, drainage is primarily subsurface. There are no major surface drainage features in the area [2,3,5,7,22,24]. Several small sinkholes were detected on site during a 1989 geophysical survey [26]. No information on flood frequency is available in the file.

3.4 SENSITIVE ENVIRONMENTS

Because the area is devoid of stream channels, information on aquatic sensitive environments was not included in this report [2,3,5,7]. According to The Nature Conservancy, no critical habitat for an endangered species was identified in the vicinity of the site [33]. No wetland areas were identified on the 4-mile radius topographic map [30].

3.5 GEOLOGY/HYDROGEOLOGY

The following regional geology/hydrogeology section has been prepared the FDEP.

This NFCD site is located in the Brooksville Ridge geomorphologic feature of the Central or Mid-Peninsular Zone geomorphologic province of Florida [48,50,52]. This area of Alachua County is characterized by karst terrain. The City of Newberry is located in the Brooksville Ridge Marginal Zone. This area contains numerous sinkholes and caves. Cover subsidence sinkholes predominate in this portion of southwestern Alachua County. As a result, drainage is internal [50]. There are three hydrostratigraphic units present in Alachua County. These units include: the surficial aquifer system, intermediate aquifer system/-confining unit and the Floridan aquifer system [47-50,52,53,58,59,61,64].

The surficial aquifer system is present in the Northern Highlands region of eastern and northern Alachua County. This also includes the Gainesville area. It is absent in southern and western Alachua County, including the City of Newberry. This aquifer generally consists of sands and clayey sands of the Pleistocene terrace deposits. However, the Cypresshead formation comprises part of the surficial aquifer system along the eastern edge of Alachua County. This Pliocene-Pleistocene age unit overlies the Hawthorn group and is composed of red to reddish-orange clayey to gravelly sand. Where present, the aquifer is about 40 feet thick and is found as shallow as 5 feet below ground surface (BGS). The surficial aquifer system is recharged primarily by rainfall. Sandpoint or shallow dug wells tapping the aquifer may yield sufficient water for domestic and stock purposes. However, the quality of the water is generally poor because of the presence of high levels of iron and tannic acids [47-53,56,61,63,64].

The intermediate aquifer system/confining unit consists of the Miocene age Hawthorn group in Alachua County. The Hawthorn group is present in the eastern two-thirds of the county including most of the Gainesville area; however, it is absent in parts of western and southern Alachua County, including parts of the City of Newberry. The Hawthorn group consists of, in descending order, the Coosawhatchie formation, Marks Head formation, and the Penny Farms formation. However, the highly variable nature of the sediments makes it difficult to identify specific units. Therefore, the Hawthorn group often is described as undifferentiated in Alachua County. The Hawthorn group sediments are composed of interbedded phosphatic clay, sand, dolomite and limestone. The Hawthorn group has surface and near surface occurrences in the eastern two-thirds of Alachua County. The sediments of the Hawthorn group have thicknesses varying from 150 feet in northeast Alachua County to only a few feet where it pinches out near the Cody Scarp. The intermediate aquifer system comprises permeable limestone and sand layers of the Hawthorn group. Water from the

intermediate aquifer system exists under artesian conditions and commonly is tapped by small domestic wells located in central and eastern Alachua County. Yields vary widely depending on the density and porosity of the unit tapped. The well yields generally are less than those from the underlying Floridan aquifer system. Because of the higher concentrations of dissolved solids, the water quality of the intermediate aquifer system is somewhat less than that of the Floridan aquifer system. Low permeability sediments of the Hawthorn group may act as an upper confining bed for the Floridan aquifer system [47-56,61,63,64].

The Floridan aquifer system is the major source of water in the area and consists of carbonate (limestone and dolomite) deposits of Eocene age. These units include, in descending order, the Ocala Limestone and the Avon Park formation. The Ocala Limestone forms the top of the Floridan aquifer system in Alachua County and ranges from white to tan to brown, recrystallized limestone to a very fine grained, chalky, porous, cream colored, fossiliferous limestone. The Ocala Limestone has an average thickness of 150 feet in the county. The top of the Ocala Limestone occurs at approximately 60 feet above MSL in western Alachua County to 0 feet MSL in the eastern portion of the County. The Ocala Limestone outcrops over a wide area of western Alachua County. The Floridan aquifer system exists under unconfined (water-table) conditions in the western third of Alachua County. The top of the Ocala Limestone is found from 0 to 5 feet BGS in the Newberry area. In the eastern two-thirds of the county, where the Hawthorn group is present, the Floridan aquifer system exists from semi-confined to confined conditions. The Avon Park formation consists of dark brown to tan, highly indurated, fossiliferous dolomite interbedded with limestone and dolomitic limestone in Alachua County. This unit is found only in subsurface occurrences in the county. The top of the Avon Park formation is found at approximately 135 feet BGS in the Newberry area. The Floridan aquifer system is between 1,500 feet thick [northwest corner] to 1,700 feet thick [southeast corner] in Alachua County. Recharge conditions vary from high recharge in the western third of the county to very low recharge in the western third of the county to very low recharge in the eastern two-thirds of the county. Regional flow in the upper Floridan aquifer system generally moves to the west in the eastern two thirds of the Alachua County. The regional flow is toward the northwest in the western third of the county [47-53,55-57,61-64].

Transmissibility of the upper Floridan aquifer system in central Alachua County has been determined to be about 160,000 gallons per day per foot. Large diameter wells tapping the Floridan aquifer system produce yields from 1,000 to 5,100 gallons per minute. Water quality of the Floridan aquifer system is considered good for public and domestic uses. Water from the aquifer is a hard, bicarbonate type and mostly free of bacteriological

contamination. The dominant dissolved solids are the calcium and magnesium carbonates. Total dissolved solid concentrations range from 150 to 350 parts per million (ppm) throughout the Alachua County area [49,61].

Structure

The Cross-County Fracture Zone in Alachua County is a series of joints and fractures affecting the Hawthorn group and Ocala Limestone. This zone trends northwest to southeast through the Gainesville area and extends from Orange Lake in the south to the Santa Fe River Sink to the north. These fractures are believed to be the result of two episodes of uplift along the Ocala Platform. As a result of the fracturing, increased downward percolation of groundwater has occurred resulting in preferential solution of underlying carbonates. A linear trend of karst solution features was subsequently produced. Some of these features include Alacya Sink and Devil's Mill sink [50].

3.6 DRINKING WATER TARGETS

The Floridan aquifer system is the primary source for drinking water in the immediate site vicinity [28,45]. As reported in section 3.5 of this report, the intermediate aquifer system is commonly tapped by small domestic wells in the central and eastern portions of Alachua County [47,48,50-56,61,63,64]. However, the site file does not report use of the intermediate aquifer system as a water supply in the vicinity of the NFCD site. The City of Newberry maintains two municipal wells that serve 2,500 people; one of these wells is located within 0.5 to 1 mile of the site and the other well is located within 1 to 2 miles of the site [30]. The Canterbury Equestrian Showplace maintains a well within 2 to 3 miles of the site that serves 750 people; Alphabetland Childcare maintains a well located within 3 to 4 miles of the site that serves 75 people; and Christian Life Fellowship maintains a well between 3 and 4 miles of the site which serves 70 people [30].

In addition, 46 privately-owned potable wells have been identified within 1 mile of the site [30]. Using the most recent census data, an average of 2.4 people per household are present in Alachua County [40]; therefore, about 110 people drink water from privately-owned potable wells within one mile of the NFCD site. Additional private wells are located within 1 to 4 miles of the site; however, the exact location and use of these wells has not been verified [10]. It has been estimated that at least 3,512 people drink water from the Floridan aquifer system within 4 miles of the site [30].

4. INVESTIGATIVE RESULTS

As discussed in Section 2, FDEP's Northeast District recommended in 1988 that the NFCD site be combined with the Newberry Landfill site, located about 0.5 mile northeast of the airstrip, for state cleanup [16]. FDEP funded a combined CA at both sites in 1989 [22,24].

4.1 GROUNDWATER

In 1988, the Alachua County Department of Environmental Services sampled three private wells in the vicinity of the NFCD site. No pesticides were detected in the groundwater samples and the metals concentrations were within acceptable limits [12,13].

During the CA, conducted in 1989, low levels of alpha- and gamma-benzenehexachloride (alpha- and gamma-BHC) and endrin were detected in groundwater samples from monitoring wells installed at the NFCD site [22,24]. The highest concentrations of these contaminants detected in groundwater were as follows: alpha-BHC (0.36 micrograms per liter [μg/L]), gamma-BHC, or lindane (0.14 μg/L) and endrin (0.072 μg/L). The maximum contaminant level (MCL) and Florida Primary Drinking Water Standard (PDWS) for endrin is 2 μg/L [66,67]. The cancer risk screening concentration for alpha-BHC is 0.056 μg/L [66], and the Florida Groundwater Guidance concentration for alpha-BHC is 0.05 μg/L [67]. The MCL and Florida PDWS for gamma-BHC (lindane) is 0.2 μg/L.

4.2 SOIL

In August 1985, FDACS inspected the operations of NFCD in response to a complaint of strong pesticide odors at the site. Soil samples were collected from four areas of suspected pesticide contamination, analyzed, and found to contain toxaphene at 4,570 ppm, methyl parathion at 638 ppm, parathion at 676 ppm, carbaryl at 1,940 ppm, methomyl at 0.48 ppm, propoxur at 0.13 ppm [1]. Other pesticides positively identified were lindane, chlorothalonil, THPI (a metabolite of captofol), chloropyrifos, pendimethalin, permethrin, and fenvalerate. The FDACS subsequently sent a letter to Mr. Olav Helgerud, president of North Florida Agricultural Services (a.k.a. NFCD), in September 1986, warning that pesticide handling practices at the site must be brought into compliance with the Florida Pesticide Law [23].

In 1989, CDM conducted a CA at the NFCD site for FDEP. Toxaphene was detected in 41 out of 48 soil/subsoil samples collected in six areas of stressed vegetation during Phase I of the CA and concentrations ranged from 480 micrograms per kilogram (μg/kg) to 7,200,000 μg/kg. Samples from Area 6 also contained gamma-BHC and

endosulfan I at levels as high as 230,000 μg/kg and 570,000 μg/kg, respectively. Pesticide concentrations generally decreased with depth, but measurable levels of toxaphene and Endosulfan I were still present at 12 feet BGS in Area 6 during the Phase II investigation [22,24,28]. In August 1989, following the CA, approximately 1,000 cubic yards of contaminated soils were removed by FDEP's contractor and transported to a hazardous waste landfill.

5. PATHWAY/EXPOSURE ROUTE EVALUATION

5.1 GROUNDWATER MIGRATION PATHWAY

Although low levels of two pesticides (alpha-BHC and endrin) have been detected in monitoring wells installed at the NFCD site, no drinking water wells have been found to be contaminated. The majority of the drinking water wells are located within 0.5 to 1 mile of the site, and the populations drinking from those wells are relatively small. Also, the FDEP has completed a soil removal at the site and as a result has significantly reduced the potential for additional groundwater contamination. Therefore, further CERCLA evaluation of the groundwater pathway is not warranted.

5.2 SURFACE WATER MIGRATION PATHWAY

No surface water bodies have been identified within 2 miles of the NFCD site that would receive runoff from the site. Surface water reportedly infiltrates into the ground near the site [28]. Therefore, further CERCLA evaluation of the surface water migration pathway is not warranted.

5.3 SOIL EXPOSURE PATHWAY

Although the soil exposure pathway may be of concern at the NFCD site because of the mobile homes located on, or adjacent to, the airstrip, the FDEP completed a removal of contaminated soil (1,000 cubic yards) from the site, which significantly reduces the threat of exposure to nearby residences [39]. Also, the site is inactive and no workers are present [28]. As a result, no further CERCLA action appears to be warranted for the soil exposure pathway.

5.4 AIR MIGRATION PATHWAY

The air migration pathway does not appear to be of concern at the NFCD site. Although contamination of pesticides has been documented in surficial soils, the contaminated soils have been removed, reducing the threat to nearby residences [28,46]. Also, the site is

located in a rural setting where a very small population (4,223 people) exists within 4 miles of the site [39].

6. CONCLUSIONS/RECOMMENDATIONS

Crop dusting operations were conducted at the NFCD site from the early 1970s until late 1987 or early 1988. Pesticide contaminated rinse waters were discharged into an unlined pit and onto the ground at the site [1,23,28]. The grass airstrip is now abandoned and three mobile homes are now located on, or adjacent to, the old airstrip [12,22,24].

The Floridan aquifer system is the primary source of drinking water in the area and is unconfined in the site vicinity [2,7,22,24]. There are 46 private drinking water wells within 1 mile of the site and the Newberry municipal wells are located about 1 mile northeast of the site [2,5,7-10]. The public and private well systems serve an estimated population of 3,512 within 4 miles of the site.

Extensive pesticide contamination of soils was found at the NFCD site. Low levels of some contaminants also were found in Floridan aquifer system monitoring wells at the site. However, the drinking water wells nearest the site have not exhibited any contamination [12,13]. In addition, FDEP's contractor excavated soil from the six areas of known contamination in August 1989. The soil was excavated from 1 to 8 feet BGS to meet the cleanup criteria. The cleanup goal was based on toxaphene and was set at 50 mg/kg. No other contaminants were detected in the final confirmation samples [26-28]. Further, subsequent sampling of the groundwater in the Floridan aquifer system indicated a decrease of metal and pesticide concentrations to below state PDWS and non-detection [46].

Based on the results of this SIP, no further CERCLA action is warranted at the NFCD site. While the groundwater pathway may be of some concern at the NFCD site, the lack of a significant target population near the site and the fact that only low levels of contaminants have been found in on-site wells reduces this concern. Also, approximately 1,000 cubic yards of contaminated soils have been removed from the site. As a result, the NFCD site (combined with the Newberry landfill) was delisted from the State Action Sites List by FDEP's Bureau of Waste Cleanup in August 1991 because the site no longer presented a human health or environmental risk [46].

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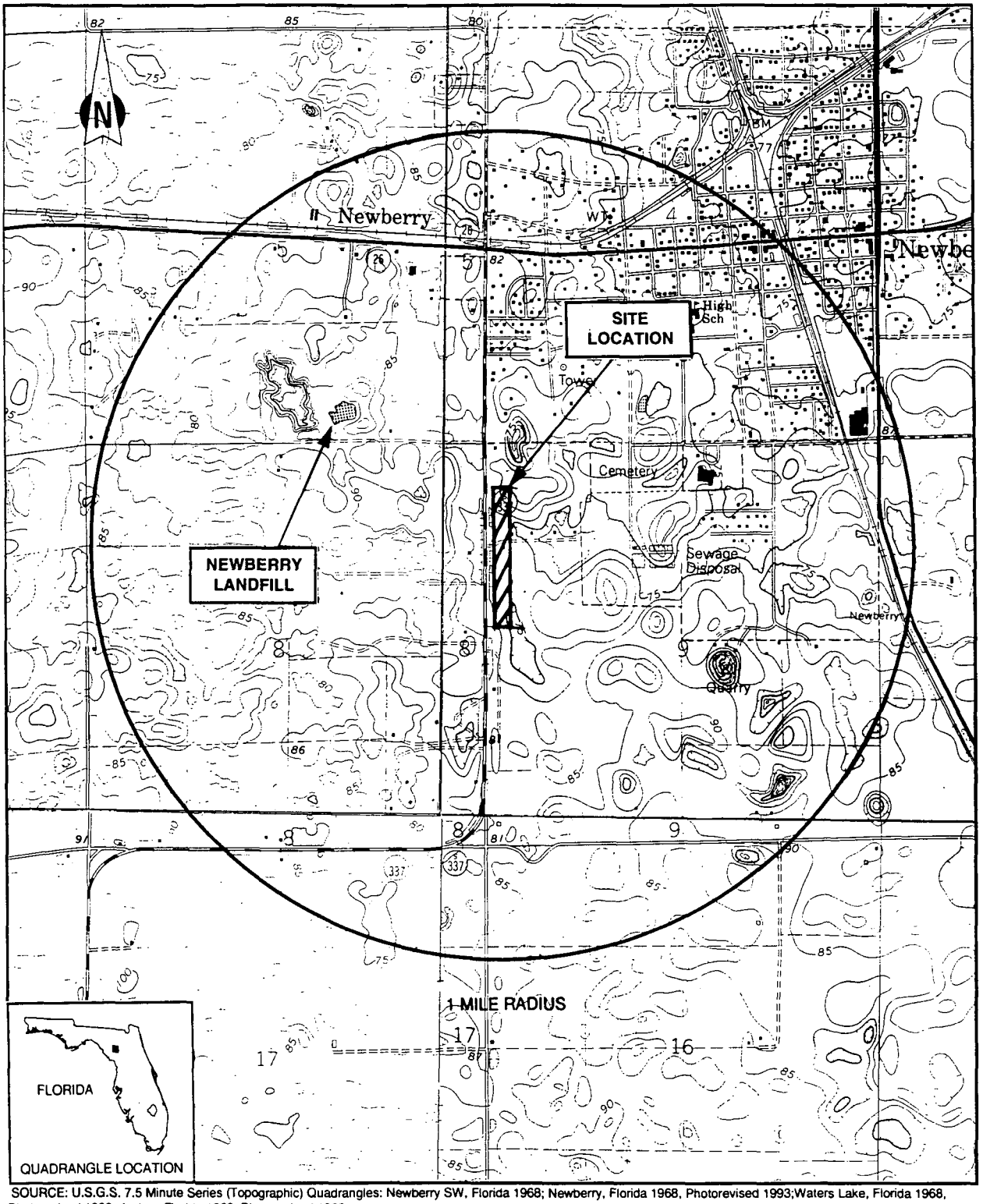


SOURCE: U.S.G.S. 7.5 Minute Series (Topographic) Quadrangles: Newberry SW, Florida 1968; Newberry, Florida 1968, Photorevised 1993;Waters Lake, Florida 1968, Photorevised 1993; Archer, Florida 1968, Photorevised 1988.

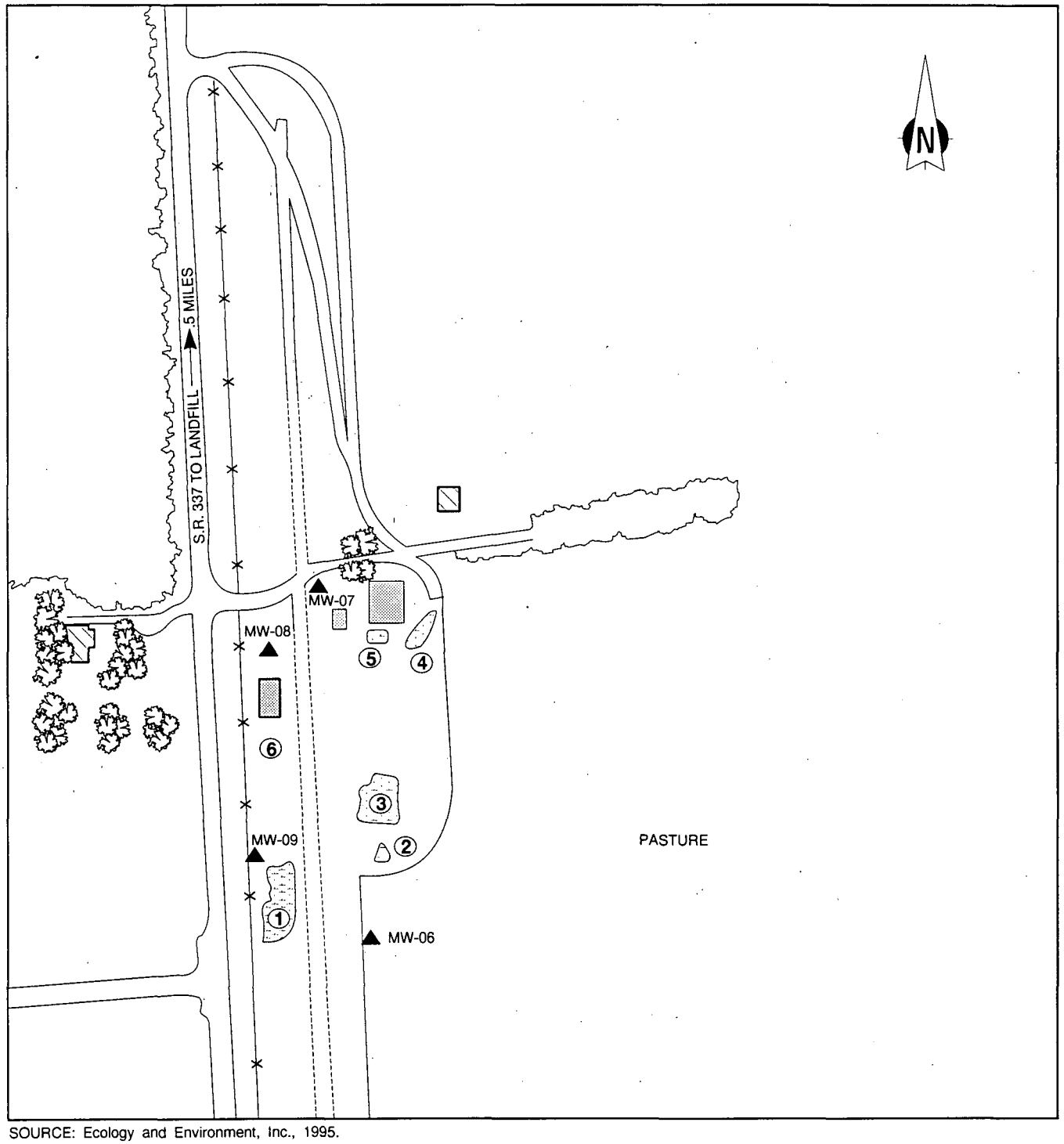
SCALE

0 .5 1 MILE

0 1000 2000 3000 4000 5000 FEET

Figure 1 LOCATION MAP — NORTH FLORIDA CROP DUSTING NEWBERRY, ALACHUA COUNTY, FLORIDA

cropsite.cdr 0472 (sip)



SOURCE: Ecology and Environment, Inc., 1995.

KEY:

Barbed Wire Fence
Residence
Limerock Pad
Trees
Area of Stressed Vegetation
Monitoring Well

SCALE
0 200 400 FEET

Figure 2
NORTH FLORIDA CROP DUSTING
NEWBERRY, ALACHUA COUNTY, FLORIDA