09-06-000583

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Site Investigation Report

Lueptow Property
W448 County Road Z
Town of Dover (Mondovi), Wisconsin

October 31, 2013
by METCO
WDNR Reference #: 03-06-000583
PECFA Claim #: 54747-9998-00-A

METCO

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This document was prepared by:

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Staff Scientist

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October 31, 2013

WDNR #: 03-06-000583
PECFA Claim #: 54747-9998-00-A

Lisa Lisowski
W448 County Rd Z
Mondovi, WI 54755

Dear Ms. Lisowski,

Enclosed is our Site Investigation Report concerning the Lueptow Property site located in Mondovi, Wisconsin. This report presents the complete data from all investigation activities.

Due to the fact that site assessment sample(s) were not collected during the UST removal, and based on the geoprobe project soil and groundwater sampling results, METCO recommends that the Lueptow Property site be assigned **"No Action Required"** for the following reasons: 1) No soil samples showed any exceedances for any contaminants of concern. 2) Groundwater samples showed no detections for any contaminants of concern.

We appreciate the opportunity to be of service on this project. Should you have any questions or require additional information, do not hesitate to contact me at our La Crosse office.

Sincerely,

Jason T. Powell
Staff Scientist

JTP:ds

c: David Hon – WDNR

EXECUTIVE SUMMARY

The subject property was formerly a small country store with an attached living quarters. The subject property had a UST system for retail fuel sales that operated during the 1940's and 1950's. The property is currently used as a residence.

In May 1991, the Mondovi Fire Department oversaw the removal of a 250-gallon leaded gasoline UST and a 500-gallon leaded gasoline UST. During the UST removal, petroleum contamination was encountered beneath the removed UST's, however assessment samples were not collected. The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.

The Site Investigation consisted of completion of ten geoprobe borings with soil and groundwater sampling, sampling of the on-site potable well, and a potable well field reconnaissance.

The results of the Site Investigation soil and groundwater sampling indicate that no significant release of petroleum products from the former UST systems has occurred. Each of the ten geoprobe borings did show a detect for Lead in soil, however all of these results remained below the NR720 Soil Cleanup Standards. The only soil sample to show any other detect for any contaminant of concern, was G-8-1, however detects remained well below the NR720 standards. All groundwater samples collected showed no laboratory detections for any contaminants of concern. Results of the investigation are as follows:

- Unconsolidated materials in the area of investigation consist of sandy silt from ground surface to depths ranging from 3 to 7 feet below ground surface, underlain by sand to at least 24 feet below ground surface.
- Soil contamination exceeding the NR720 Soil Cleanup Standards does not appear to exist on the subject property.
- According to data collected from the geoprobe boring samples, the depth to groundwater is approximately 15-19 feet below surface depending on location and the time of year. Groundwater flow direction is not known at this time, but is expected to be toward the northwest to northeast.
- Groundwater contamination exceeding the NR140 ES and/or PAL does not appear to exist on the subject property.

Due to the fact that soil assessment sample(s) were not collected during the UST removal, and based on the geoprobe project soil and groundwater sampling results, METCO recommends that the Lueptow Property site be assigned **"No Action Required"** for the following reasons: 1) No soil sample showed any exceedances for any contaminants of concern. 2) Groundwater samples showed no detections for any contaminants of concern.

Table of Contents

1.0 INTRODUCTION AND BACKGROUND

A Site Investigation is required by the Wisconsin Department of Natural Resources (WDNR) by authority of Section 292.11 of the Wisconsin Statutes. According to the WDNR, any soil that tests more than 10 ppm Gasoline Range Organics (GRO) or Diesel Range Organics (DRO) requires an investigation. Any soil that tests more than the Chapter NR720 Soil Cleanup Standards or NR746 Table 1 or Table 2 values may require possible remediation. Any groundwater that tests more than the Preventive Action Limits (PAL) or Enforcement Standards (ES) for compounds listed in Chapter NR140 Groundwater Quality Standards requires an investigation and possible remediation. For a further explanation of WDNR rules and regulations, see Appendix E.

This report presents data collected during the Site Investigation. The purpose of this investigation was to:

1) Determine the extent and degree of petroleum contamination in the environment.
2) Determine if any risks exist to the environment or public health.
3) As conditions warrant, bring the site to closure.

1.1 Responsible Party Information

Lisa Lisowski
W448 County Road Z
Mondovi, WI 54755
(715) 946-3311

1.2 Consultant Information

Consultant

METCO
Ronald J. Anderson P.G.
Jason T. Powell
709 Gillette Street, Suite 3
La Crosse, WI 54603
(608) 781-8879

Subcontractors

Geiss Soil & Samples, LLC
W4490 Pope Road
Merrill, WI 54452
(715) 539-3928

Synergy Environmental Lab
1990 Prospect Court
Appleton, WI 54914
(920) 830-2455

1.3 Site Location

Site address:
448 County Road Z
Town of Dover (Mondovi), Wisconsin

Latitude and Longitude:
44° 29' 16" N and 91° 37' 11" W

WTM Coordinates:
391212, 447341

Note: The WDNR RR Sites Map incorrectly depicts the location of the Lueptow Property site. Above are the correct coordinates.

Township/Range:
SE ¼, NW ¼, Section 8, Township 23 North, Range 10 West, Buffalo County

1.4 Site History

The subject property was formerly a small country store with an attached living quarters. The subject property had a UST system for retail fuel sales that operated during the 1940's and 1950's. The property is currently used as a residence.

In May 1991, the Mondovi Fire Department oversaw the removal of a 250-gallon leaded gasoline UST and a 500-gallon leaded gasoline UST. During the UST removal, petroleum contamination was encountered beneath the removed UST's, however assessment sample(s) were not collected. The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.

No other LUST/ERP sites are known to exist within three miles of the subject property.

2.0 GEOLOGY AND RECEPTORS

2.1 Regional and Local Geology and Hydrogeology

Topography and Regional Setting

According to the USGS Hydrologic Atlas, the subject property is located in the southern portion of the Trempealeau-Black River Basin. This area is characterized by rugged, steep-walled valleys and high relief, a lack of glacial deposits, and streams that have cut deeply into the relatively flat-lying bedrock.

The elevation of the site is approximately 840 feet above Mean Sea Level (MSL). See Section 6 for site location.

Soil and Bedrock

Soil samples were described by METCO field personnel. Assisting literature included the Hydrologic Atlas, Wisconsin Geologic Logs, and Wisconsin Well Constructor Reports.

Geologic materials in the area of the investigation generally consist of the following in downward stratigraphic order:

- From surface to depths ranging from 3 to 7 feet below ground surface exists a tan to brown to green, sandy silt.
- From depths ranging from 3 to 7 feet, to at least 24 feet below ground surface exists an orange to tan to brown, very fine to coarse grained sand.

Bedrock was not encountered during the investigation, however, Cambrian sandstone bedrock is believed to exist at approximately 50-100 feet below ground surface (bgs).

Please note that this is a generalization of the local geology and may not be consistent throughout the entire investigation area.

No other characteristics concerning the local sediments such as structures, layering, lenses, or secondary permeability are documented at this time.

Hydrogeology

According to data collected from the geoprobe boring samples, the depth to groundwater is approximately 15-19 feet below surface depending on location and the time of year. Groundwater flow direction is not known at this time, but is expected to be toward the northwest to northeast.

Please note, perched water was likely encountered in geoprobe borings G-1, G-3, and G-5, from depths ranging from 7-11 feet below ground surface.

2.2 Receptors

Buildings, Basements, Sumps, Utility Corridors

Soil and/or groundwater contamination does not appear to be present at the site, therefore, no receptors appear to be at risk at this time.

Municipal and Private Water Supply Wells

A private supply well supplies the subject property with potable water. The private well is located in the crawl space beneath an addition, on the east side of the house. The only other private potable well that exists in this area is the potable well for the church, south of County Highway Z. This well exists approximately 150 to the southeast of the former UST area.

METCO is not currently aware of any other impacts, receptors, risks, or local problems associated with the subject property.

The private well locations are shown on the Site Layout Map presented in Section 6.0.

Surface Waters

The nearest surface water is Elk Creek, which exists approximately 350 feet to the north of the subject property.

3.0 SITE INVESTIGATION RESULTS, RISK CRITERIA

3.1 Methods of Investigation

Workscope

The workscope performed for the LUST Investigation included the following:

1) Collected site background information.

2) On April 15, 2013, METCO completed ten geoprobe borings. Fifty-one soil samples and ten groundwater samples were collected for field and/or laboratory analysis. METCO personnel also collected a potable well sample from the on-site well for VOC (524.2) analysis.

3) On April 15, 2013, METCO conducted a potable well field reconnaissance to identify any potable wells within ½ mile of the subject property.

Site Access Problems

No site access problems were encountered during the LUST investigation.

Analytical Methods

All samples were collected in a manner as to maintain their quality and to eliminate any possible cross contamination. METCO did not deviate from any WDNR or laboratory recommended procedures for sample collection, preservation, or transportation on this project to our knowledge.

Equipment advanced into the subsurface was cleaned between sampling locations. Cleaning consisted of washing with a biodegradable Alconox solution and rinsing with potable water. Disposable equipment was not cleaned, but immediately disposed of after use.

All samples were constantly kept on ice in a cooler and hand delivered to the laboratory.

3.2 Data Discussion

Soil Sampling Data

On April 15, 2013, during the Geoprobe Project, ten geoprobe borings were completed with fifty-one soil samples collected for field and/or laboratory analysis (PID, Lead, GRO, PVOC, VOC, and/or Naphthalene).

Soil analytical results are summarized in the Soil Analytical Results Summary Tables with exceedances of the WDNR Soil Standards noted (it should be noted that no soil exceedances were detected during the Site Investigation).

Soil sample locations are presented in the Site Layout Map found in Section 6. All data is presented in the data tables in Section 7. The laboratory reports are presented in Appendix B.

Groundwater Sampling Data

On April 15, 2013, during the Geoprobe Project, METCO collected one groundwater sample from each of the ten borings for laboratory analysis (PVOC and Naphthalene).

Geoprobe Boring analytical results are summarized in the Groundwater Analytical Results Summary Table.

The geoprobe boring locations are presented in the Site Layout Map in Section 6. All data is presented in the data tables in Section 7. The lab reports are presented in Appendix B.

Potable Well Sampling Data

On April 15, 2013, during the Geoprobe Project, METCO collected a groundwater sample from the on-site potable well for laboratory analysis (VOC 524.2).

Potable well analytical results are summarized in the Groundwater Analytical Results Summary Table.

at this time:

1. Documented expansion of plume margin: Based on the Geoprobe Project, no evidence of plume expansion has been seen.
2. Verified contaminant concentrations in a private or public potable well that exceeds the preventive action limit established under Chapter, Stats. 160: The potable well for the subject property was sampled during the Geoprobe Project and showed no laboratory detections for any contaminants of concern. Only one other potable well exists within 1,200 feet of the site, however, since contamination does not appear to be present at the subject property, that well was not sampled.

3. Contamination within bedrock or within one meter of bedrock: Petroleum contamination has not been documented to date, therefore contamination does not appear to exist in or within one meter of the bedrock.
4. Petroleum product that is not in the dissolved phase (floating product) is present with a thickness of 0.01 feet or more, and verified by more than one sampling event: Free product was not encountered in any of the geoprobe boring locations.
5. Documented contamination discharges to a surface water or wetland: Petroleum contamination has not been documented to date, therefore contamination does not appear to extend to Elk Creek or any other surface waters.

b) Soil contamination relative to Table 1 values. No soil samples exceeded any NR746 Table 1 values.

c) Soil contamination within 4 feet of the ground surface relative to Table 2 values: No soil samples collected within the top 4 feet of the ground surface exceeded any NR746 Table 2 values.

d) Non-Table 2 contaminants of potential concern within 4 feet of the ground surface. No soil samples collected within the top 4 feet of the ground surface exceeded any Non-Table 2 contaminants.

e) Except for the substances listed in Table 2, there is no human health risk from direct contact for a substance listed in Table 1 if the substances' concentration is below the Table 1 soil screening level. None of the soil samples collected within the top 4 feet of the ground surface exceeded NR746 Table 1 values.

f) Time frame of the most recent petroleum-product contaminant release. Any release must be considered greater than 10 years, as the UST was removed in 1991.

g) Evidence of petroleum product contamination within a utility corridor or within permeable material or soil along which vapors, free product or contaminated water may flow. Since contamination does not appear to exist on the subject property, utility corridors acting as preferential contaminant migration pathways do not appear to be a risk at this site.

h) Evidence of migration or imminent migration of petroleum product contamination to building foundation drain tile, sumps or other points of

entry into a basement or other enclosed structure where petroleum vapors could collect and create odors or an adverse impact on indoor air quality or where contaminants may pose an explosion hazard. Since contamination does not appear to exist on the subject property, vapor intrusion does not appear to be a risk at this site.

i) Enforcement standard exceedances in groundwater within 1,000 feet of a well operated by a public utility, or within 100 feet of any other well used to provide water for human consumption. No municipal or private water supply wells appear to be at risk from the subject property since petroleum contamination does not appear to be present.

3.6 Risk Assessment

No soil or groundwater exceedances have been documented to date for this site. Thus, METCO is submitting this Site Investigation report and will be requesting that "No Action Required" be assigned for this site.

4.0 CONCLUSIONS

4.1 Investigation Summary

The results of the Site Investigation soil and groundwater sampling indicate that no significant release of petroleum products from the former UST systems has occurred. Each of the ten geoprobe borings did show a detect for Lead in soil, however all of these results remained below the NR720 Soil Cleanup Standards. The only soil sample to show any other detect for any contaminant of concern, was G-8-1, however detects remained well below the NR720 standards. All groundwater samples collected showed no laboratory detections for any contaminants of concern. Results of the investigation are as follows:

- Unconsolidated materials in the area of investigation consists of sandy silt from ground surface to depths ranging from 3 to 7 feet below ground surface, underlain by sand to at least 24 feet below ground surface.
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- According to data collected from the geoprobe boring samples, the depth to groundwater is approximately 15-19 feet below surface depending on location and the time of year. Groundwater flow direction is not known at this time, but is expected to be toward the northwest to northeast.
- Groundwater contamination exceeding the NR140 ES and/or PAL does not appear to exist on the subject property.

According to the data collected during the investigation, it is the conclusion of METCO that under existing conditions and limitations, the extent and degree of petroleum contamination have been adequately defined in soil and groundwater to warrant a completed investigation as defined by WDNR guidelines and regulations.

4.2 Recommendations

Due to the fact that soil assessment sample(s) were not collected during the UST removal, and based on the geoprobe project soil and groundwater sampling results, METCO recommends that the Lueptow Property site be assigned **"No Action Required"** for the following reasons: 1) No soil sample showed any exceedances for any contaminants of concern. 2) Groundwater samples showed no detections for any contaminants of concern.

5.0 REFERENCES

H.L. Young and R.G. Borman, 1973, Water Resources of Wisconsin Trempealeau-Black River Basin, Hydrologic Investigations, Atlas HA-474, U.S. Geological Survey, Washington D.C.

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Nielson, D.M., 1991, Practical Handbook of Groundwater Monitoring, Chelsea, Michigan.

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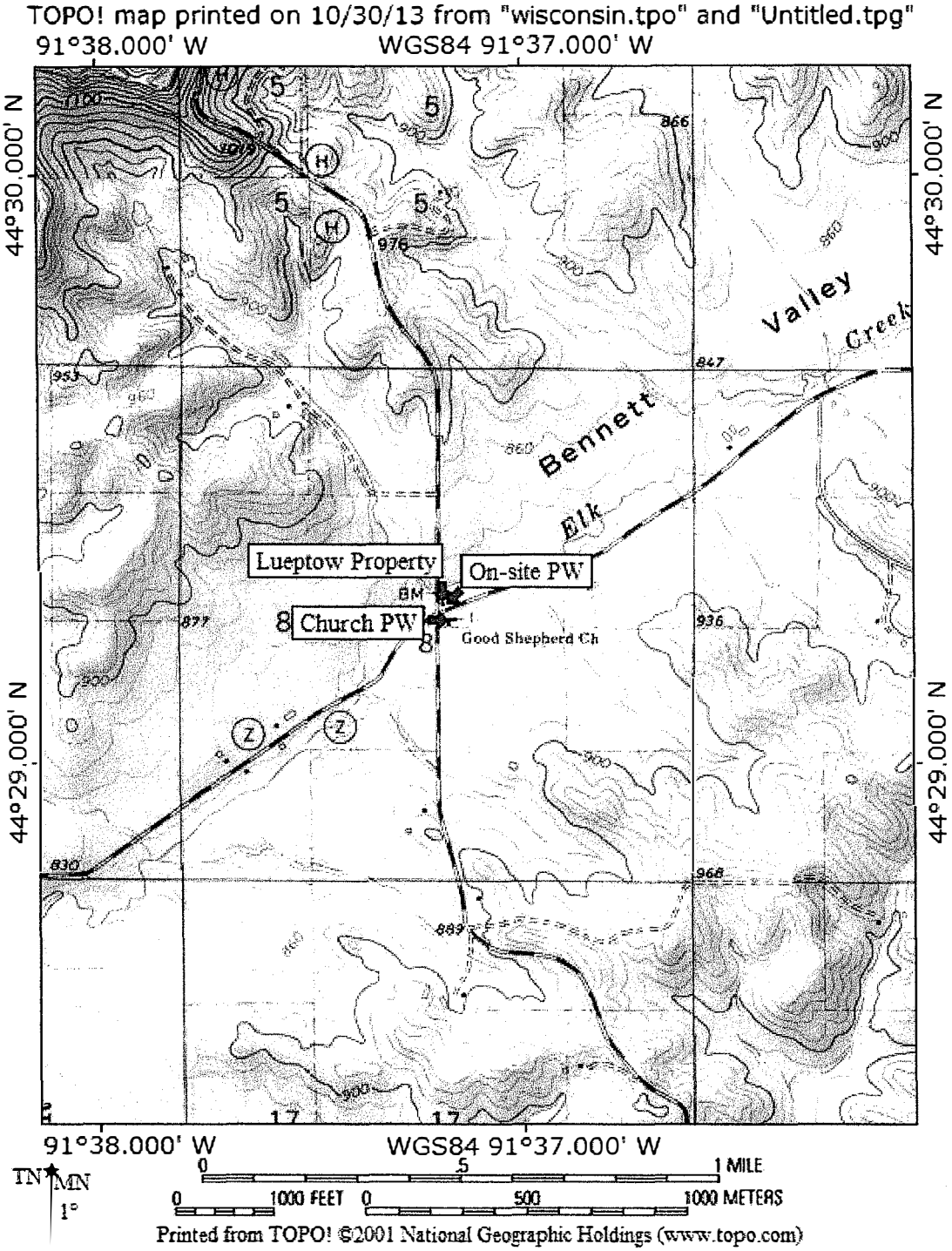
Weston, R.F., 1987, Remedial Technologies for Leaking Underground Storage Tanks.

Other information and data was collected from Lisa Lisowski, Mondovi Fire Department, City of Mondovi, Diggers Hotline, Geiss Soil & Samples Inc., Synergy Environmental Lab, Wisconsin Department of Natural Resources, and local people.

6.0 FIGURES



SITE LOCATION MAP – CONTOUR INTERVAL 20 FEET
LUEPTOW PROPERTY – MONDOVI, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

SITE LAYOU

LUEPTOW PR(

METCO
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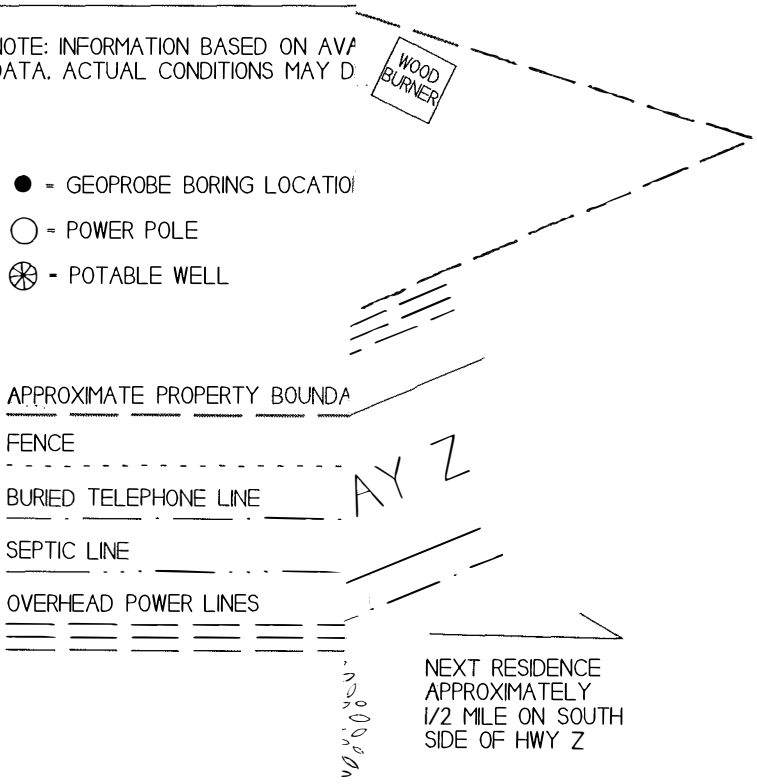
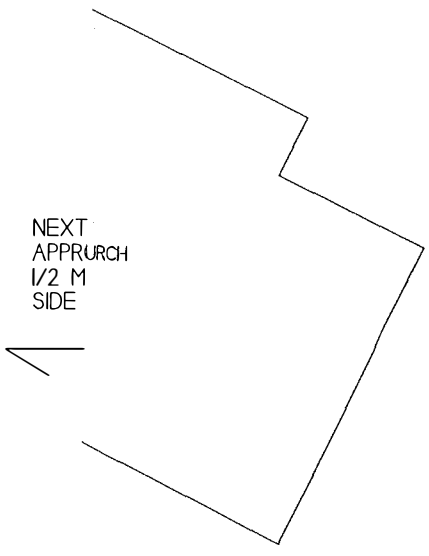
NOTE: INFORMATION BASED ON AVA
DATA. ACTUAL CONDITIONS MAY D





CROSS-SEC

LUEPTOW PR

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MON
WISC

DRAWN E

MODIFIED

NOTE: INFORMATION BASED ON AV
DATA. ACTUAL CONDITIONS MAY D

WOOD BURNER

● = GEOPROBE BORING LOCATIC

◯ = POWER POLE

⊛ = POTABLE WELL

APPROXIMATE PROPERTY BOUND/

FENCE

BURIED TELEPHONE LINE

AY Z

SEPTIC LINE

OVERHEAD POWER LINES

NEXT RESIDENCE
APPROXIMATELY
1/2 MILE ON SOUTH
SIDE OF HWY Z

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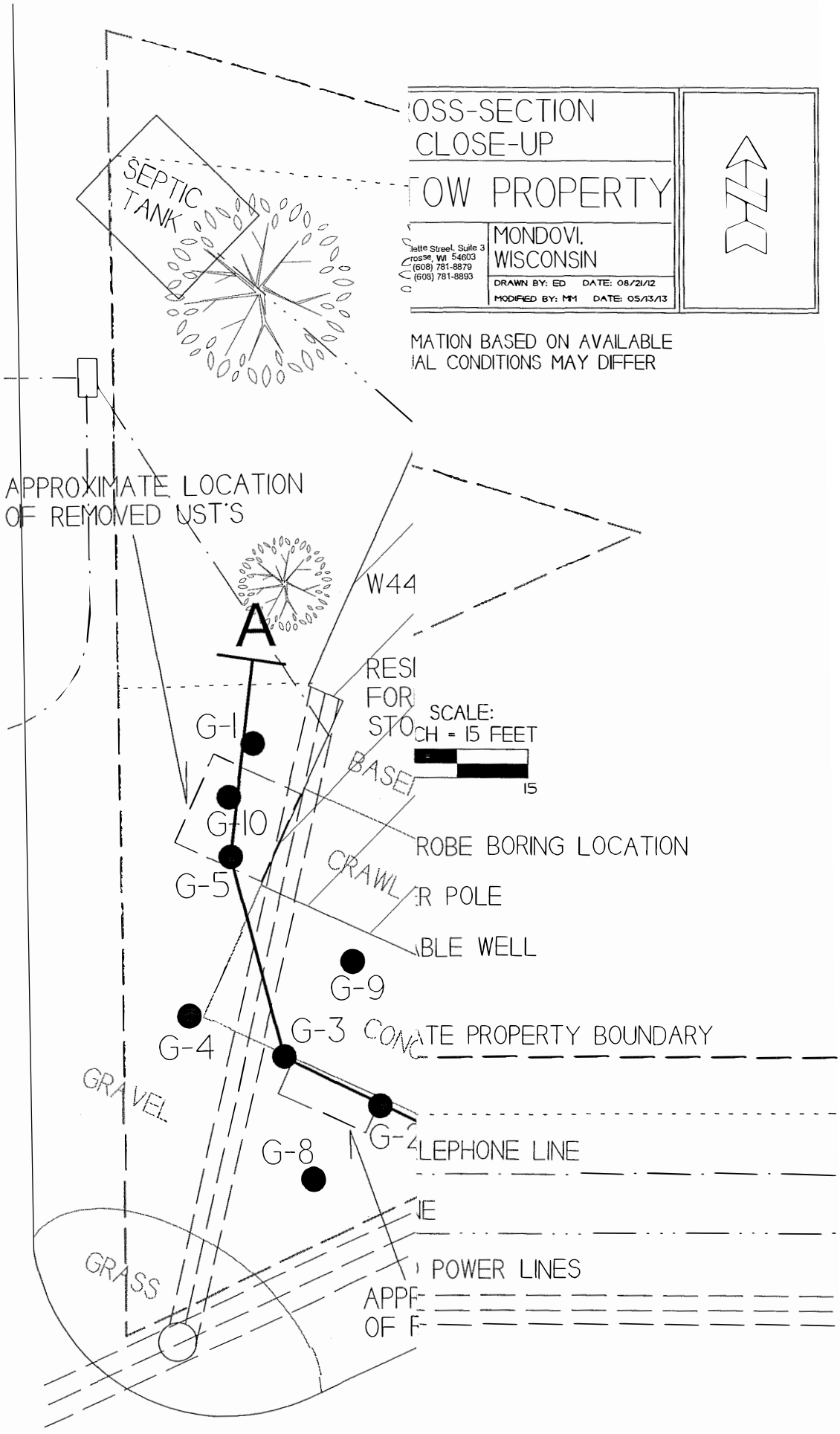
1/2 M
SIDE


OSS-SECTION
CLOSE-UP
OW PROPERTY
MONDOVI,
WISCONSIN
DRAWN BY: ED DATE: 08/21/12
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OF REMOVED UST'S
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G-1
G-10
G-5
G-9
G-4
G-3
G-8
BASE
ROBE BORING LOCATION
CRAWL
R POLE
BLE WELL
CONC
ATE PROPERTY BOUNDARY
GRAVEL
LEPHONE LINE
POWER LINES
GRASS
APPF
OF F

GEOLOGIC CROSS-SECTION

LUEPTOW PROPERTY

MONDOVI, WISCONSIN

METCO
709 Gillette St. Ste. 3
La CROSSE, WI 54603
Tel: (608) 781-6870
Fax: (608) 781-6893
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DRAWN BY: BW

DATE: 10/29/13

VERTICAL SCALE: 1 INCH = 5 FEET

5
0

HORIZONTAL SCALE: 1 INCH = 15 FEET

0 15

INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.

SOIL SAMPLE RESULTS FOR LEAD ARE PRESENTED IN PARTS PER MILLION (PPM). RESULTS FOR PVOCS ARE PRESENTED IN PARTS PER BILLION (PPB).

GROUNDWATER SAMPLE RESULTS ARE PRESENTED IN PPB.

NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE GEOPROBE PROJECT - (4/15/2013)

NOTE: PERCHED WATER WAS LIKELY ENCOUNTERED IN GEOPROBE BORINGS G-1, G-3, AND G-5 AT DEPTHS RANGING FROM 7-11 FEET BELOW GROUND SURFACE.

● - GEOPROBE BORING LOCATION

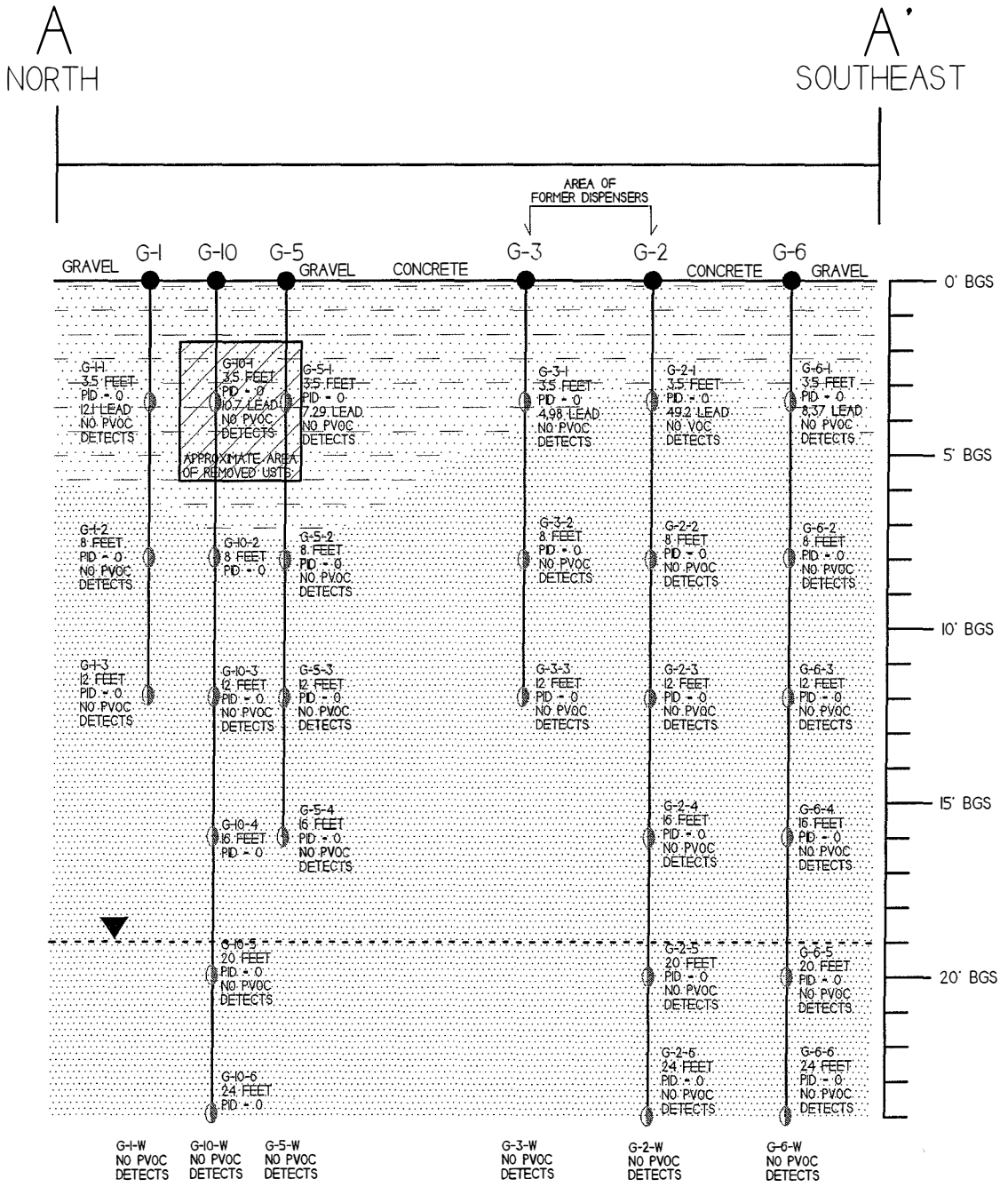
◑ - GEOPROBE SOIL SAMPLE LOCATION

▼ - WATERTABLE

PID - PHOTO IONIZATION DETECTOR
GRO - GASOLINE RANGE ORGANICS
PVOC - PETROLEUM VOLATILE ORGANIC COMPOUNDS
VOC - VOLATILE ORGANIC COMPOUNDS
B - BENZENE
E - ETHYLBENZENE
MTBE - METHYL TERT-BUTYL ETHER
N - NAPHTHALENE
T - TOLUENE
TMB - TRIMETHYLBENZENE
X - XYLENE

TAN TO BROWN SANDY SILT

ORANGE TO TAN TO BROWN VERY FINE TO COARSE GRAINED SAND



7.0 DATA TABLES, GRAPHS, AND STATISTICAL ANALYSIS

Soil Analytical Results Summary
Lueptow Property LUST Site BRRTS# 03-06-000583

Sample ID	Depth (feet)	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	1,2,4-Trime-thylbenzene (ppb)	1,3,5-Trime-thylbenzene (ppb)	Xylene (Total) (ppb)	Other VOC's (ppb)
G-1-1	3.5	04/15/13	0	12.1	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-1-2	8.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-1-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-2-1	3.5	04/15/13	0	49.2	NS	<10	<9.2	<10	<30	<14	<20	<26	<26	<99	SEE VOC SPREAD-SHEET
G-2-2	8.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-2-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-2-4	16.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-2-5	20.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-2-6	24.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-3-1	3.5	04/15/13	0	4.98	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-3-2	8.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-3-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-4-1	3.5	04/15/13	0	6.85	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-4-2	8.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-4-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-4-4	16.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-4-5	20.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-5-1	3.5	04/15/13	0	7.29	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-5-2	8.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-5-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-5-4	16.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-6-1	3.5	04/15/13	0	8.37	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-6-2	8.0	04/15/13	0	NOT SAMPLED											NS
G-6-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-6-4	16.0	04/15/13	0	NOT SAMPLED											NS
G-6-5	20.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-6-6	24.0	04/15/13	0	NOT SAMPLED											NS
G-7-1	3.5	04/15/13	0	7.71	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-7-2	8.0	04/15/13	0	NOT SAMPLED											NS
G-7-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-7-4	16.0	04/15/13	0	NOT SAMPLED											NS
G-7-5	20.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-7-6	24.0	04/15/13	0	NOT SAMPLED											NS
G-8-1	3.5	04/15/13	0	6.39	NS	<10	<25	<25	<25	<25	31.5	28.6	<25	<75	NS
G-8-2	8.0	04/15/13	0	NOT SAMPLED											NS
G-8-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-8-4	16.0	04/15/13	0	NOT SAMPLED											NS
G-8-5	20.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-8-6	24.0	04/15/13	0	NOT SAMPLED											NS
G-9-1	3.5	04/15/13	0	7.25	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-9-2	8.0	04/15/13	0	NOT SAMPLED											NS
G-9-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-9-4	16.0	04/15/13	0	NOT SAMPLED											NS
G-9-5	20.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-9-6	24.0	04/15/13	0	NOT SAMPLED											NS
G-10-1	3.5	04/15/13	0	10.7	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-10-2	8.0	04/15/13	0	NOT SAMPLED											NS
G-10-3	12.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-10-4	16.0	04/15/13	0	NOT SAMPLED											NS
G-10-5	20.0	04/15/13	0	NS	NS	<10	<25	<25	<25	<25	<25	<25	<25	<75	NS
G-10-6	24.0	04/15/13	0	NOT SAMPLED											NS
NR720				50	100	100	5.5	2900	---	---	1500	---	---	4100	
NR746 Table 1				---	---	---	8500	4600	---	2700	38000	83000	11000	42000	
NR746 Table 2				---	---	---	1100	---	---	---	---	---	---	---	

Bold = NR720 Exceedance
Bold/Underline = NR746 Exceedance
NS = Not Sampled

Soil Analytical Results Summary
Lueptow Property LUST Site BRRTS# 03-06-000583

Well Sampling Conducted on April 15, 2013

VOC's	G-2-1	NR720 Bold = Exceedance	NR746 Table 1 Bold/Underline = Exceedance	NR746 Table 2 Bold/Underline = Exceedance
Solids Percent	95.6	==	==	==
Lead/ppm	49.2	**50**	==	==
GRO/ppm	<10	**100**	==	==
Benzene/ppb	<9.2	**5.5**	**8500**	**1100**
Bromobenzene/ppb	<13	==	==	==
Bromodichloromethane/ppb	<27	==	==	==
Bromoform/ppb	<30	==	==	==
tert-Butylbenzene/ppb	<20	==	==	==
sec-Butylbenzene/ppb	<41	==	==	==
n-Butylbenzene/ppb	<26	==	==	==
Carbon Tetrachloride/ppb	<25	==	==	==
Chlorobenzene/ppb	<16	==	==	==
Chloroethane/ppb	<42	==	==	==
Chloroform/ppb	<49	==	==	==
Chloromethane/ppb	<181	==	==	==
2-Chlorotoluene/ppb	<16	==	==	==
4-Chlorotoluene/ppb	<14	==	==	==
1,2-Dibromo-3-chloropropane/ppb	<48	==	==	==
Dibromochloromethane/ppb	<14	==	==	==
1,4-Dichlorobenzene/ppb	<33	==	==	==
1,3-Dichlorobenzene/ppb	<30	==	==	==
1,2-Dichlorobenzene/ppb	<38	==	==	==
Dichlorodifluoromethane/ppb	<57	==	==	==
1,2-Dichloroethane/ppb	<36	**4.9**	**600**	**540**
1,1-Dichloroethane/ppb	<19	==	==	==
1,1-Dichloroethene/ppb	<21	==	==	==
cis-1,2-Dichloroethene/ppb	<24	==	==	==
trans-1,2-Dichloroethene/ppb	<29	==	==	==
1,2-Dichloropropane/ppb	<9.5	==	==	==
2,2-Dichloropropane/ppb	<46	==	==	==
1,3-Dichloropropane/ppb	<21	==	==	==
Di-isopropyl ether/ppb	<11	==	==	==
EDB (1,2-Dibromoethane)/ppb	<20	==	==	==
Ethylbenzene/ppb	<10	**2900**	**4600**	==
Hexachlorobutadiene/ppb	<95	==	==	==
Isopropylbenzene/ppb	<25	==	==	==
p-Isopropyltoluene/ppb	<31	==	==	==
Methylene chloride/ppb	<57	==	==	==
Methyl tert-butyl ether (MTBE)/ppb	<30	==	==	==
Naphthalene/ppb	<114	==	**2700**	==
n-Propylbenzene/ppb	<24	==	==	==
1,1,2,2-Tetrachloroethane/ppb	<12	==	==	==
1,1,1,2-Tetrachloroethane/ppb	<23	==	==	==
Tetrachloroethene (PCE)/ppb	<49	==	==	==
Toluene/ppb	<20	**1500**	**38000**	==
1,2,4-Trichlorobenzene/ppb	<79	==	==	==
1,2,3-Trichlorobenzene/ppb	<129	==	==	==
1,1,1-Trichloroethane/ppb	<38	==	==	==
1,1,2-Trichloroethane/ppb	<23	==	==	==
Trichloroethene (TCE)/ppb	<28	==	==	==
Trichlorofluoromethane/ppb	<86	==	==	==
1,2,4-Trimethylbenzene/ppb	<26	==	**83000**	==
1,3,5-Trimethylbenzene/ppb	<26	==	**11000**	==
Vinyl Chloride/ppb	<21	==	==	==
m&p-Xylene/ppb	<68	**4100**	**42000**	==
o-Xylene/ppb	<31			==

= = No Exceedences
NS = Not Sampled

Geoprobe Groundwater Analytical Results Summary
Lueptow Property LUST Site BRRTS# 03-06-000583

Sample ID	Date	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)	Other VOC's (ppb)
G-1-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-2-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-3-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-4-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-5-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-6-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-7-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-8-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-9-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
G-10-W	04/15/13	NS	NS	NS	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32	NS
POTABLE WELL	04/15/13	NS	NS	NS	<0.24	<0.27	<0.26	<0.49	<0.24	<0.57	<0.94	SEE VOC SPREAD-SHEET
ENFORCE MENT STANDARD **ES = Bold**		15	-	-	5	700	60	100	800	480	2000	
PREVENTIVE ACTION LIMIT *PAL = Italics*		1.5	-	-	0.5	140	12	10	160	96	400	

NS = Not Sampled
(ppb) = parts per billion (ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics

Groundwater Analytical Results Summary
Lueptow Property LUST Site BRRTS# 03-06-000583

Well Sampling Conducted on May 23, 2011

VOC's Well Name	POTABLE WELL	ENFORCE MENT STANDARD = ES – Bold	*PREVENTIVE ACTION LIMIT = PAL - Italics*
Benzene/ppb	<0.24	**5**	*0.5*
Bromobenzene/ppb	<0.33	==	==
Bromodichloromethane/ppb	<0.27	==	==
Bromoform/ppb	<0.34	==	==
Bromomethane/ppb	<0.98	==	==
Carbon Tetrachloride/ppb	<0.25	==	==
Chlorobenzene/ppb	<0.24	==	==
Chloroethane/ppb	<0.62	==	==
Chloroform/ppb	<0.28	==	==
Chloromethane/ppb	<0.81	==	==
2-Chlorotoluene/ppb	<0.35	==	==
4-Chlorotoluene/ppb	<0.29	==	==
Dibromochloromethane/ppb	<0.2	==	==
Dibromoethane/ppb	<0.41	==	==
1,4-Dichlorobenzene/ppb	<0.25	==	==
1,3-Dichlorobenzene/ppb	<0.3	==	==
1,2-Dichlorobenzene/ppb	<0.28	==	==
Dichlorodifluoromethane/ppb	<0.27	==	==
1,2-Dichloroethane/ppb	<0.41	==	==
1,1-Dichloroethane/ppb	<0.3	==	==
1,1-Dichloroethene/ppb	<0.31	**5**	*0.5*
cis-1,2-Dichloroethene/ppb	<0.32	==	==
trans-1,2-Dichloroethene/ppb	<0.25	==	==
1,2-Dichloropropane/ppb	<0.32	==	==
2,2-Dichloropropane/ppb	<0.45	==	==
1,3-Dichloropropane/ppb	<0.26	==	==
trans-1,2-Dichloropropene/ppb	<0.22	==	==
cis-1,2-Dichloropropene/ppb	<0.2	==	==
1,1-Dichloropropene/ppb	<0.34	==	==
Ethylbenzene/ppb	<0.27	**0.05**	*0.005*
Hexachlorobutadiene/ppb	<0.48	**700**	*140*
Isopropylbenzene/ppb	<0.3	==	==
p-Isopropyltoluene/ppb	<0.3	==	==
Methylene chloride/ppb	<0.35	==	==
Methyl tert-butyl ether (MTBE)/ppb	<0.26	==	==
Naphthalene/ppb	<0.49	**60**	*12*
Styrene/ppb	<0.23	**100**	*10*
1,1,2,2-Tetrachloroethane/ppb	<0.45	==	==
1,1,1,2-Tetrachloroethane/ppb	<0.29	==	==
Tetrachloroethene (PCE)/ppb	<0.27	==	==
Toluene/ppb	<0.24	**5**	*0.5*
1,2,4-Trichlorobenzene/ppb	<0.24	**800**	*160*
1,1,1-Trichloroethane/ppb	<0.33	==	==
1,1,2-Trichloroethane/ppb	<0.34	==	==
Trichloroethene (TCE)/ppb	<0.3	==	==
Trichlorofluoromethane/ppb	<0.26	==	==
1,2,3-Trichloropropane/ppb	<0.91	**5**	*0.5*
Trichlorotrifluoroethane/ppb	<0.41	==	==
1,2,4-Trimethylbenzene/ppb	<0.31		
1,3,5-Trimethylbenzene/ppb	<0.26	**480**	*96*
Vinyl Chloride/ppb	<0.18	==	==
m&p-Xylene/ppb	<0.69		
o-Xylene/ppb	<0.25	**2000**	*400*

NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.
= = No Exceedences
(ppb) = parts per billion

APPENDIX A/ METHODS OF INVESTIGATION

Site Investigation Report-METCO
Lueptow Property

Geoprobe Project

Geoprobe sampling was completed by Geiss Soil & Samples, LLC. Of Merrill, Wisconsin, under the direction and supervision of METCO personnel. The Geoprobe consists of a truck-mounted, hydraulically driven unit that advances interconnected, 1-inch diameter, 3 foot long, stainless steel rods into the subsurface.

Field observations such as soil characteristics, petroleum odors, and petroleum staining associated with all the collected samples were continuously noted throughout sampling. All Geoprobe holes were properly abandoned to ground level using bentonite clay.

The purpose of the Geoprobe Project was to cost effectively determine, if the released contaminants have impacted the soil and groundwater, and determine the general extent of contamination along those mediums. This collected information would then be used to guide the Drilling Project, if required.

Geoprobe Soil Sampling

The procedure consisted of advancing an assembled stainless steel sampler to the top of the interval to be sampled. A stop-pin was then removed, and the sampler driven until filled. The rods were retracted from the hole and the sample recovered.

Geoprobe Groundwater Sampling

This procedure consisted of advancing a stainless steel, mill slotted well point into the watertable interface. Disposable, flexible, ¼ inch diameter polyethylene tubing was then introduced through the steel rods and down to the watertable interface. A hand-held pump was used to slowly draw an undisturbed water sample into the polyethylene tube, which was then removed from the steel rods and the water sample immediately placed into sampling containers.

Field Screening

Selected soil samples were scanned with a Model DL 102 HNU Photo-ionization Meter equipped with a 10.6 eV lamp. Metered calibrations were done at the beginning of each workday using an isobutylene standard. A quart sized Ziploc bag was filled, by gloved hand, one-third full with the sample. The Ziploc bags were sealed and shaken vigorously for 30 seconds. Headspace development was established by allowing the sample to rest for at least 15 minutes. If ambient temperatures are below 70 degrees Fahrenheit, headspace development takes place in a heated environment, which

allows the sample enough time to establish satisfactory headspace. To take readings, the HNU probe was inserted through the Ziploc seal and the highest meter response recorded.

Throughout the field projects the HNU Meter did not encounter any vast temperature or humidity changes, malfunctions, repairs, or any other obvious interferences that would affect its results.

Sample Preparation

The volume of sample, size of container, and type of sample preservation was dependent on the specific parameter for which the sample was to be analyzed. Parameter specific information is presented in the LUST Sample Guidelines located in Appendix E.

Field Sampling and Transportation Quality Control

All samples were collected in a manner as to maintain their quality and to eliminate any possible cross contamination. METCO did not deviate from any WDNR or laboratory recommended procedures for sample collection, preservation, or transportation on this project.

Equipment advanced into the subsurface was cleaned between sampling locations. Cleaning consisted of washing with a biodegradable Alconox solution and rinsing with potable water. Disposable equipment was not cleaned, but immediately disposed of after use.

All samples were constantly kept on ice in a cooler and hand delivered to the laboratory.

Laboratory Quality Control

See Appendix B for the results of any field blanks, trip blanks, temperature blanks, lab spikes, split samples, replicate spikes, and duplicates.

Investigative Wastes

No investigative waste was generated during the geoprobe project.

APPENDIX B/ ANALYTICAL METHODS & LABORATORY DATA REPORTS

Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

LISA LISOWSKI
LISA LISOWSKI
W448 COUNTY ROAD Z
MONDOVI, WI 54755

Report Date *01-May-13*

Project Name LUEPTOW PROPERTY **Invoice #** P25045
Project #

Lab Code 5025045A
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045B
Sample ID G-1-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.8	%			1	5021		4/26/2013	MDK	1
Inorganic										
Metals										
Lead, Total	12.1	mg/kg	0.6	1.92	2	SW846 7421		4/25/2013	CVT	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 5025045B
Sample ID G-1-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045C
Sample ID G-1-2
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.6	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045D
Sample ID G-1-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.2	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 5025045E
Sample ID G-2-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.6	%			1	5021		4/20/2013	MDK	1
Inorganic										
Metals										
Lead, Total	49.2	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic										
General										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		4/29/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		4/29/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		4/29/2013	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		4/29/2013	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		4/29/2013	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		4/29/2013	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		4/29/2013	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		4/29/2013	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		4/29/2013	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		4/29/2013	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		4/29/2013	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		4/29/2013	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		4/29/2013	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		4/29/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		4/29/2013	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		4/29/2013	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		4/29/2013	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		4/29/2013	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		4/29/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		4/29/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		4/29/2013	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		4/29/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		4/29/2013	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		4/29/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		4/29/2013	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		4/29/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		4/29/2013	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		4/29/2013	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		4/29/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		4/29/2013	CJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B		4/29/2013	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		4/29/2013	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		4/29/2013	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		4/29/2013	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		4/29/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		4/29/2013	CJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B		4/29/2013	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		4/29/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		4/29/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		4/29/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		4/29/2013	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		4/29/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		4/29/2013	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		4/29/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		4/29/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		4/29/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		4/29/2013	CJR	1

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Lab Code 5025045E
Sample ID G-2-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		4/29/2013	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		4/29/2013	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		4/29/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		4/29/2013	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		4/29/2013	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		4/29/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	97	Rec %			1	8260B		4/29/2013	CJR	1
SUR - 4-Bromofluorobenzene	107	Rec %			1	8260B		4/29/2013	CJR	1
SUR - Dibromofluoromethane	95	Rec %			1	8260B		4/29/2013	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		4/29/2013	CJR	1

Lab Code 5025045F
Sample ID G-2-2
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	98.0	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045G
Sample ID G-2-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.0	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
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Lab Code 5025045H
Sample ID G-2-4
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.1	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045I
Sample ID G-2-5
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045J
Sample ID G-2-6
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.5	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 5025045J
Sample ID G-2-6
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045K
Sample ID G-3-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.0	%			1	5021		4/20/2013	MDK	1
Inorganic										
Metals										
Lead, Total	4.98	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045L
Sample ID G-3-2
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	96.6	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 5025045M
Sample ID G-3-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.7	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045N
Sample ID G-4-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.0	%			1	5021		4/20/2013	MDK	1
Inorganic										
Metals										
Lead, Total	6.85	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045O
Sample ID G-4-2
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	96.6	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 5025045O
Sample ID G-4-2
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 5025045P
Sample ID G-4-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.2	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/27/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/27/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/27/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/27/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/27/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/27/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/27/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/27/2013	CJR	1

Lab Code 5025045Q
Sample ID G-4-4
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.8	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/27/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/27/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/27/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/27/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/27/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/27/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/27/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/27/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 5025045R
Sample ID G-4-5
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.5	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/30/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/30/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/30/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1

Lab Code 5025045S
Sample ID G-5-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.1	%			1	5021		4/20/2013	MDK	1
Inorganic										
Metals										
Lead, Total	7.29	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/30/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/30/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/30/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1

Lab Code 5025045T
Sample ID G-5-2
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.1	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 5025045T
Sample ID G-5-2
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/30/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/30/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/30/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1

Lab Code 5025045U
Sample ID G-5-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.4	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/30/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/30/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/30/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1

Lab Code 5025045V
Sample ID G-5-4
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.7	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/30/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/30/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/30/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 5025045W
Sample ID G-6-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.1	%			1	5021		4/20/2013	MDK	1
Inorganic										
Metals										
Lead, Total	8.37	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/30/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/30/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/30/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1

Lab Code 5025045X
Sample ID G-6-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.4	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/30/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/30/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/30/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1

Lab Code 5025045Y
Sample ID G-6-5
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.9	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 5025045Y
Sample ID G-6-5
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/30/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/30/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/30/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1

Lab Code 5025045Z
Sample ID G-7-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.5	%			1	5021		4/20/2013	MDK	1
Inorganic										
Metals										
Lead, Total	7.71	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/30/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/30/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/30/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/30/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/30/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/30/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/30/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/30/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/30/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/30/2013	CJR	1

Lab Code 525045AA
Sample ID G-7-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.6	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/25/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/25/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/25/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/25/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/25/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/25/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/25/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/25/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/25/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/25/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 525045BB
Sample ID G-7-5
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/25/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/25/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/25/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/25/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/25/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/25/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/25/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/25/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/25/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/25/2013	CJR	1

Lab Code 525045CC
Sample ID G-8-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	92.9	%			1	5021		4/20/2013	MDK	1
Inorganic										
Metals										
Lead, Total	6.39	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/25/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/25/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/25/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/25/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/25/2013	CJR	1
Toluene	31.5	ug/kg	8.4	27	1	GRO95/8021		4/25/2013	CJR	1
1,2,4-Trimethylbenzene	28.6 "J"	ug/kg	10	33	1	GRO95/8021		4/25/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/25/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/25/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/25/2013	CJR	1

Lab Code 525045DD
Sample ID G-8-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.3	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/25/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/25/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 525045DD
Sample ID G-8-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/25/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/25/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/25/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/25/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/25/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/25/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/25/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/25/2013	CJR	1

Lab Code 525045EE
Sample ID G-8-5
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.7	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/25/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/25/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/25/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/25/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/25/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/25/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/25/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/25/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/25/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/25/2013	CJR	1

Lab Code 525045FF
Sample ID G-9-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.3	%			1	5021		4/20/2013	MDK	1
Inorganic										
Metals										
Lead, Total	7.25	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 525045GG
Sample ID G-9-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.2	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 525045HH
Sample ID G-9-5
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.4	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/26/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/26/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/26/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/26/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/26/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/26/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/26/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/26/2013	CJR	1

Lab Code 525045II
Sample ID G-10-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.5	%			1	5021		4/20/2013	MDK	1
Inorganic										
Metals										
Lead, Total	10.7	mg/kg	0.6	1.92	2	SW846 7421		4/23/2013	CWT	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/27/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/27/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 525045II
Sample ID G-10-1
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/27/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/27/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/27/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/27/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/27/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/27/2013	CJR	1

Lab Code 525045JJ
Sample ID G-10-3
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.9	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/27/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/27/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/27/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/27/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/27/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/27/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/27/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/27/2013	CJR	1

Lab Code 525045KK
Sample ID G-10-5
Sample Matrix Soil
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.9	%			1	5021		4/20/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		4/27/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		4/27/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		4/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		4/27/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		4/27/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		4/27/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		4/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		4/27/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		4/27/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		4/27/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 525045LL
Sample ID TB
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/24/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/24/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/24/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/24/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/24/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/24/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/24/2013	CJR	1

Lab Code 525045MM
Sample ID POTABLE WELL
Sample Matrix Drinking Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	524.2		4/19/2013	CJR	1
Bromobenzene	< 0.33	ug/l	0.33	1	1	524.2		4/19/2013	CJR	1
Bromodichloromethane	< 0.27	ug/l	0.27	0.85	1	524.2		4/19/2013	CJR	1
Bromoform	< 0.34	ug/l	0.34	1.1	1	524.2		4/19/2013	CJR	1
Bromomethane	< 0.98	ug/l	0.98	3.1	1	524.2		4/19/2013	CJR	1
Carbon Tetrachloride	< 0.25	ug/l	0.25	0.81	1	524.2		4/19/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	524.2		4/19/2013	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2	1	524.2		4/19/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	524.2		4/19/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	524.2		4/19/2013	CJR	1
2-Chlorotoluene	< 0.35	ug/l	0.35	1.1	1	524.2		4/19/2013	CJR	1
4-Chlorotoluene	< 0.29	ug/l	0.29	0.91	1	524.2		4/19/2013	CJR	1
Dibromochloromethane	< 0.2	ug/l	0.2	0.64	1	524.2		4/19/2013	CJR	1
Dibromomethane	< 0.41	ug/l	0.41	1.3	1	524.2		4/19/2013	CJR	1
1,4-Dichlorobenzene	< 0.25	ug/l	0.25	0.8	1	524.2		4/19/2013	CJR	1
1,3-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	524.2		4/19/2013	CJR	1
1,2-Dichlorobenzene	< 0.28	ug/l	0.28	0.88	1	524.2		4/19/2013	CJR	1
Dichlorodifluoromethane	< 0.27	ug/l	0.27	0.85	1	524.2		4/19/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	524.2		4/19/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	524.2		4/19/2013	CJR	1
1,1-Dichloroethene	< 0.31	ug/l	0.31	0.99	1	524.2		4/19/2013	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1	1	524.2		4/19/2013	CJR	1
trans-1,2-Dichloroethene	< 0.25	ug/l	0.25	0.8	1	524.2		4/19/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	524.2		4/19/2013	CJR	1
2,2-Dichloropropane	< 0.45	ug/l	0.45	1.4	1	524.2		4/19/2013	CJR	1
1,3-Dichloropropane	< 0.26	ug/l	0.26	0.82	1	524.2		4/19/2013	CJR	1
trans-1,3-Dichloropropene	< 0.22	ug/l	0.22	0.69	1	524.2		4/19/2013	CJR	1
cis-1,3-Dichloropropene	< 0.2	ug/l	0.2	0.63	1	524.2		4/19/2013	CJR	1
1,1-Dichloropropene	< 0.34	ug/l	0.34	1.1	1	524.2		4/19/2013	CJR	1
Ethylbenzene	< 0.27	ug/l	0.27	0.86	1	524.2		4/19/2013	CJR	1
Hexachlorobutadiene	< 0.48	ug/l	0.48	1.5	1	524.2		4/19/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	524.2		4/19/2013	CJR	1
p-Isopropyltoluene	< 0.3	ug/l	0.3	0.94	1	524.2		4/19/2013	CJR	1
Methylene chloride	< 0.35	ug/l	0.35	1.1	1	524.2		4/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.26	ug/l	0.26	0.82	1	524.2		4/19/2013	CJR	1
Naphthalene	< 0.49	ug/l	0.49	1.6	1	524.2		4/19/2013	CJR	1
Styrene	< 0.23	ug/l	0.23	0.72	1	524.2		4/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	524.2		4/19/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 525045MM
Sample ID POTABLE WELL
Sample Matrix Drinking Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.91	1	524.2		4/19/2013	CJR	1
Tetrachloroethene	< 0.27	ug/l	0.27	0.85	1	524.2		4/19/2013	CJR	1
Toluene	< 0.24	ug/l	0.24	0.75	1	524.2		4/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.24	ug/l	0.24	0.76	1	524.2		4/19/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	524.2		4/19/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	524.2		4/19/2013	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.96	1	524.2		4/19/2013	CJR	1
Trichlorofluoromethane	< 0.26	ug/l	0.26	0.84	1	524.2		4/19/2013	CJR	1
1,2,3-Trichloropropane	< 0.91	ug/l	0.91	2.9	1	524.2		4/19/2013	CJR	1
Trichlorotrifluoroethane	< 0.41	ug/l	0.41	1.3	1	524.2		4/19/2013	CJR	1
1,2,4-Trimethylbenzene	< 0.31	ug/l	0.31	0.98	1	524.2		4/19/2013	CJR	1
1,3,5-Trimethylbenzene	< 0.26	ug/l	0.26	0.83	1	524.2		4/19/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	524.2		4/19/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	524.2		4/19/2013	CJR	1
o-Xylene	< 0.25	ug/l	0.25	0.79	1	524.2		4/19/2013	CJR	1

Lab Code 525045NN
Sample ID G-1-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/24/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/24/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/24/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/24/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/24/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/24/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/24/2013	CJR	1

Lab Code 525045OO
Sample ID G-2-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/24/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/24/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/24/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/24/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/24/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/24/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/24/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 525045PP
Sample ID G-3-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/24/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/24/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/24/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/24/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/24/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/24/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/24/2013	CJR	1

Lab Code 525045QQ
Sample ID G-4-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/24/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/24/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/24/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/24/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/24/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/24/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/24/2013	CJR	1

Lab Code 525045RR
Sample ID G-5-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/24/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/24/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/24/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/24/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/24/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/24/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/24/2013	CJR	1

Lab Code 525045SS
Sample ID G-6-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/24/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 525045SS
Sample ID G-6-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/24/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/24/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/24/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/24/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/24/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/24/2013	CJR	1

Lab Code 525045TT
Sample ID G-7-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/24/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/24/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/24/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/24/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/24/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/24/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/24/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/24/2013	CJR	1

Lab Code 525045UU
Sample ID G-8-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/25/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/25/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/25/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/25/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/25/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/25/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/25/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/25/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/25/2013	CJR	1

Lab Code 525045VV
Sample ID G-9-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/25/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/25/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/25/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/25/2013	CJR	1

Project Name LUEPTOW PROPERTY **Invoice #** E25045
Project #

Lab Code 525045VV
Sample ID G-9-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/25/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/25/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/25/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/25/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/25/2013	CJR	1

Lab Code 525045WW
Sample ID G-10-W
Sample Matrix Water
Sample Date 4/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		4/25/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		4/25/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		4/25/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		4/25/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		4/25/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		4/25/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		4/25/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		4/25/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		4/25/2013	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature Michael Ricker

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 907

Page 1 of 5

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : **Quote No.:**

Project #:

Sampler: (signature) E Lee

Project (Name / Location): Luepton Property

Reports To: Lisa Lisowski	Invoice To: Lisa Lisowski c/o Jason Powell
Company	Company METCO
Address W448 County Rd Z	Address 709 Gillette St, ste 3
City State Zip Mondovi, WI 54755	City State Zip La Crosse, WI 54603
Phone (715) 946-3311	Phone (608) 781-8879
FAX	FAX 8893

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
502504A	Meth Blank	4/18/13					1		MEOH		X						X					
B	G-1-1		9:50		X		3	S	None		X		X				X					
C	G-1-2		9:55				2				X						X					
D	G-1-3		10:00				2				X						X					
E	G-2-1		10:20				3		None		X		X							X		
F	G-2-2		10:25				2				X						X					
G	G-2-3		10:30				2				X						X					
H	G-2-4		10:35				2				X						X					
I	G-2-5		12:55				2				X						X					
J	G-2-6		1:15				2				X						X					

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Lab to send copy of report to METCO
Use Rates
Agent Status

Sample Integrity - To be completed by receiving lab

Method of Shipment: Driven

Temp. of Temp. Blank: ___ °C On Ice: ✓

Cooler seal intact upon receipt: ___ Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
E Lee	1:45PM	4/17/13			

Received in Laboratory By: Christine Rote Time: 8:00 Date: 4/18/13

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 908
Page 2 of 5

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
Account No. : **Quote No.:**
Project #:
Sampler: (signature) Evan Pine
Project (Name / Location): Luepton Property
Reports To: See Page 1 → Invoice To:
Company → Company
Address → Address
City State Zip → City State Zip
Phone → Phone
FAX → FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp.	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
502505K	G-3-1	4/11/13	10:50		X		3	S	MeOH /None	X	X	X					X					
L	G-3-2		10:55				2			X							X					
M	G-3-3		11:00				2			X							X					
N	G-4-1		11:20				3		/None	X	X	X					X					
O	G-4-2		11:24				2			X							X					
P	G-4-3		11:30				2			X							X					
Q	G-4-4		11:35				2			X							X					
R	G-4-5		11:40				2			X							X					
S	G-5-1		12:10				3		/None	X	X						X					
T	G-5-2	↓	12:15		↓		2	↓	↓	X							X					

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Driven
Temp. of Temp. Blank. ____ °C On Ice: ✓
Cooler seal intact upon receipt: ✓ Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
E Pine	1:45 PM	4/12/13			

Received in Laboratory By: [signature] Time: 8:00 Date: 4/19/13

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 909
Page 3 of 5

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
Account No. : **Quote No.:**
Project #:
Sampler: (signature) Eric Dale
Project (Name / Location): Luepton Property
Reports To: See Page 1 — Invoice To: →

Company	Company
Address	Address
City State Zip	City State Zip
Phone	Phone
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 624.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
502504GU	G-5-3	4/16/13	12:20		X		2	S	MEOH		X						X					
V	G-5-4		12:25				2				X						X					
W	G-6-1		1:45				3		/None		X		X				X					
X	G-6-3		1:50				2				X						X					
Y	G-6-5		1:55				2				X						X					
Z	G-7-1		2:25				3		/None		X		X				X					
502504GUA	G-7-3		2:35				2				X						X					
BB	G-7-5		2:40				2				X						X					
CC	G-8-1		3:10				3		/None		X		X				X					
DD	G-8-3		3:15				2				X						X					

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Dunn Cam
Temp. of Temp. Blank. ____ °C On Ice: ✓
Cooler seal intact upon receipt: ✓ Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Eric Dale	1:45 PM	4/17/13			

Received in Laboratory By: [signature] Time: 8:00 Date: 4/19/13

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 910

Page 4 of 5

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : Quote No.:

Project #:

Sampler: (signature) E Lund

Project (Name / Location): Luepkow Property

Reports To: See Page 1 Invoice To: →

Company	Company
Address	Address
City State Zip	City State Zip
Phone	Phone
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
S25045EE	G-8-5	4/11/13	3:20		X		2	S	MEOH		X						X					
FF	G-9-1	↓	3:50		↓		3	↓	/None		X		X				X					
GG	G-9-3		4:00				2				X						X					
HH	G-9-5		4:10				2				X						X					
II	G-10-1		4:30				3		/None		X		X				X					
JJ	G-10-3		4:40				2				X						X					
KK	G-10-5		4:55				2	↓	↓		X						X					
LL	Trip Blank						1		HCl								X					
MM	Potable Well		9:30			N	3	DW											X			
NN	G-1-W	↓	10:10		↓	N	3	GW	↓								X					

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab:
Method of Shipment: Courier
Temp. of Temp. Blank. ___ °C On Ice: ✓
Cooler seal intact upon receipt: ✓ Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign.)	Time	Date
E Lund	1:45 PM	4/17/13			

Received in Laboratory By: [signature] Time: 8:00 Date: 4/19/13

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 903

Page 5 of 5

Sample Handling Request
Rush Analysis Date Required
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #:
Account No. : Quote No.:
Project #:
Sampler: (signature)

Project (Name / Location): Lueptow Property

Reports To:	Invoice To:
Company	Company
Address	Address
City State Zip	City State Zip
Phone	Phone
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
525045 00	G-2-W	4/15/13	1:20		X	N	3	GW	HCl								X					
PP	G-3-W		11:10														X					
QQ	G-4-W		11:50														X					
RR	G-5-W		12:40														X					
SS	G-6-W		2:15														X					
TT	G-7-W		3:00														X					
UU	G-8-W		3:35														X					
VV	G-9-W		4:20														X					
WW	G-10-W		5:10														X					

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Burlington
Temp. of Temp. Blank. ____ °C On Ice: ____
Cooler seal intact upon receipt: ____ Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1:45PM	4/17/13			

Received in Laboratory By: Time: 8:20 Date: 4/18/13

APPENDIX C/ WELL AND BOREHOLE DOCUMENTATION

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: X Other:

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Lueptow Property		G-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC	04/15/13 MM/ DD/ YYYY	04/15/13 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL		2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 29 ' 16"	N E
SE¼ of NW¼ of Section 8 , T 23 N, R 10 W	Long 91 ° 37 ' 11 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Buffalo	6	Town of Dover (Mondovi)

Sample					Soil Properties									
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-1-1 (0-4 feet)	36		4	Brown sandy silt	SP-SM			0			M			No Petro Odor
			6	4'-6' Brown sandy silt	SP-SM									
G-1-2 (4-8 feet)	36		8	6'-8' Tan medium to coarse grained sand	SP			0			M			No Petro Odor
G-1-3 (8-12 feet)	24		12	Tan medium to coarse grained sand	SP			0			W			No Petro Odor
G-1-W (7-12 feet)				EOB 12 Feet Groundwater sample G-1-W collected.. Borehole Abandoned.										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: **METCO**

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

Notice: Please complete Form 3300-5 and return it to the appropiate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forteiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management [X] Remediation/Redevelopment ☐ Other _____

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ | DNR Well ID No. | County: BUFFALO

Common Well Name: G-1 Gov't Lot (If applicable)

SE 1/4 of NW 1/4 of Sec. 8 ; T. 23 N; R. 10 ☐ E [X] W
Grid Location

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 00 " or

St. Plane _____ ft. N. _____ ft. E. ☐S ☐C ☐N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: Lueptow Property

Facility ID | License/Permit/Monitoring No.

Street Address of Well: W448 County Road Z

City, Village, or Town: Mondovi

Present Well Owner: Lisa Lueptow | Original Owner

Street Address or Route of Owner: W448 County Road Z

City, State, Zip Code: Mondovi WI 54755-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 4/15/2013

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (Specify) Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 12 (From groundsurface)
Casing Diameter (in.) 2
Casing Depth (ft.) _____
Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 7

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	[X] Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
[X] Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	12	18	

(6) Comments: Abandoned by Geiss under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 4/15/2013

Signature of Person Doing Work: Eric Dahl | Date Signed: 5/14/13

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: X Other:

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Lueptow Property		G-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/15/13	04/15/13	Geoprobe
Firm: Geiss Soil & Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL		2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 29 ' 16"	N E
SE¼ of NW¼ of Section 8 , T 23 N, R 10 W	Long 91 ° 37 ' 11 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Buffalo	6	Town of Dover (Mondovi)

Sample Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-2-1 (0-4 feet)	42		0-4	0-3' Tan sandy silt 3'-4' Orange very fine to fine grained sand	SP-SM SP			0			M			No Petro Odor
G-2-2 (4-8 feet)	36		4-8	Orange very fine to fine grained sand	SP			0			M			No Petro Odor
G-2-3 (8-12 feet)	42		8-12	Orange fine to coarse grained sand	SP			0			M			No Petro Odor
G-2-4 (12-16 feet)	42		12-16	Orange fine to coarse grained sand	SP			0			M/W			No Petro Odor
G-2-5 (16-20 feet)	48		16-20	Brown fine to coarse grained sand	SP			0			M/W			No Petro Odor
G-2-6 (20-24 feet)	48		20-24	Orange fine to coarse grained sand	SP			0			W			No Petro Odor
G-2-W (19-24 feet)				EOB 24 Feet Groundwater sample G-2-W collected.. Borehole Abandoned.										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: METCO

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management [X] Remediation/Redevelopment ☐ Other _____

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: BUFFALO

Common Well Name: G-2 | Gov't Lot (If applicable):

Grid Location: SE 1/4 of NW 1/4 of Sec. 8 ; T. 23 N; R. 10 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 11 " or

St. Plane _____ ft. N. _____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: Lueptow Property

Facility ID | License/Permit/Monitoring No.

Street Address of Well: W448 County Road Z

City, Village, or Town: Mondovi

Present Well Owner: Lisa Lueptow | Original Owner

Street Address or Route of Owner: W448 County Road Z

City, State, Zip Code: Mondovi WI 54755-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 4/15/2013

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (Specify) Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 24 (From groundsurface)

Casing Diameter (in.) 2

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 19

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	[X] Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
[X] Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	24	36	

(6) Comments: Abandoned by Geiss under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 4/15/2013

Signature of Person Doing Work: E Dahl | Date Signed: 5/14/13

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: X Other:

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Lueptow Property		G-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/15/13	04/15/13	Geoprobe
Firm: Geiss Soil & Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL		2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 29 ' 16"	N E
SE¼ of NW¼ of Section 8 , T 23 N, R 10 W	Long 91 ° 37 ' 11 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Buffalo	6	Town of Dover (Mondovi)

Sample					Soil Properties									
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-3-1 (0-4 feet)	36		4	Tan sandy silt	SP-SM			0			M			No Petro Odor
G-3-2 (4-8 feet)	36		8	Tan fine to medium grained sand	SP			0			M			No Petro Odor
G-3-3 (8-12 feet)	42		12	Tan to brown fine to coarse grained sand	SP			0			W			No Petro Odor
G-3-W (7-12 feet)				EOB 12 Feet Groundwater sample G-3-W collected.. Borehole Abandoned.										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: **METCO**

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management [X] Remediation/Redevelopment ☐ Other _____

(1) GENERAL INFORMATION

WI Unique Well No. - - - - - | DNR Well ID No. | County: BUFFALO

Common Well Name: G-3 | Gov't Lot (If applicable):

Grid Location: SE 1/4 of NW 1/4 of Sec. 8 ; T. 23 N; R. 10 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 11 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: - - - - -

(2) FACILITY / OWNER INFORMATION

Facility Name: Lueptow Property

Facility ID | License/Permit/Monitoring No.

Street Address of Well: W448 County Road Z

City, Village, or Town: Mondovi

Present Well Owner: Lisa Lueptow | Original Owner

Street Address or Route of Owner: W448 County Road Z

City, State, Zip Code: Mondovi WI 54755-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 4/15/2013

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (Specify) Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) (From groundsurface): 12 Casing Diameter (in.): 2

Casing Depth (ft.): _____

Lower Drillhole Diameter (in.): 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet): 7

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	[X] Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
[X] Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	12	18	

(6) Comments: Abandoned by Geiss under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 4/15/2013

Signature of Person Doing Work: Eric Dahl | Date Signed: 5/14/13

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: X Other:

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Lueptow Property		G-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/15/13	04/15/13	Geoprobe
Firm: Geiss Soil & Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL		2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 29 ' 16"	N E
SE¼ of NW¼ of Section 8 , T 23 N, R 10 W	Long 91 ° 37 ' 11 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Buffalo	6	Town of Dover (Mondovi)

Sample					Soil Properties									
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-4-1 (0-4 feet)	42		4	Tan sandy silt	SP-SM			0			M			No Petro Odor
			6	4'-6' Tan sandy silt	SP-SM									
G-4-2 (4-8 feet)	42		8	6'-8' Green to tan very fine to medium grained sand	SP			0			M			No Petro Odor
G-4-3 (8-12 feet)	36		12	Tan to orange fine to coarse grained sand	SP			0			M			No Petro Odor
G-4-4 (12-16 feet)	36		16	Tan fine to coarse grained sand	SP			0			M			No Petro Odor
G-4-5 (16-20 feet) G-4-W (15-20 feet)	48		20	Tan fine to coarse grained sand	SP			0			M/W			No Petro Odor
				EOB 20 Feet Groundwater sample G-4-W collected.. Borehole Abandoned.										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: METCO

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Department of Natural Resources

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Form 3300-5 2/2000

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Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management [X] Remediation/Redevelopment ☐ Other _____

(1) GENERAL INFORMATION

WI Unique Well No.: _ _ _ _ _ _ _
DNR Well ID No.:
County: BUFFALO

Common Well Name: G-4 Gov't Lot (If applicable):

Grid Location: SE 1/4 of NW 1/4 of Sec. 9 ; T. 23 N; R. 16 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 11 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: Lueptow Property

Facility ID:

License/Permit/Monitoring No.:

Street Address of Well: W448 County Road Z

City, Village, or Town: Mondovi

Present Well Owner: Lisa Lueptow

Original Owner:

Street Address or Route of Owner: W448 County Road Z

City, State, Zip Code: Mondovi WI 54755-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 4/15/2013

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (Specify) Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) (From groundsurface): 20
Casing Diameter (in.): 2
Casing Depth (ft.):
Lower Drillhole Diameter (in.): 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

Depth to Water (Feet): 15

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	[X] Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
[X] Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	20	30	

(6) Comments: Abandoned by Geiss under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO)

Date of Abandonment: 4/15/2013

Signature of Person Doing Work:

Date Signed: 5/14/13

Street or Route: 709 Gillette St. Ste. 3

Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received:

Noted By:

Comments:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: X Other:

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Lueptow Property		G-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/15/13	04/15/13	Geoprobe
Firm: Geiss Soil & Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL		2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 29' 16"	N E
SE¼ of NW¼ of Section 8 , T 23 N, R 10 W	Long 91° 37' 11"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Buffalo	6	Town of Dover (Mondovi)

Sample Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-5-1 (0-4 feet)	36		2–4	Brown sandy silt	SP-SM			0			M			No Petro Odor
			6	4'-7' Brown sandy silt	SP-SM									
G-5-2 (4-8 feet)	42		8–10	7'-8' Tan very fine to medium grained sand	SP			0			M			No Petro Odor
G-5-3 (8-12 feet)	42		12–14	Tan fine to coarse grained sand	SP			0			M			No Petro Odor
G-5-4 (12-16 feet) G-5-W (11-16 feet)	48		16–24	Tan fine to coarse grained sand	SP			0			M/W			No Petro Odor
				EOB 16 Feet Groundwater sample G-5-W collected.. Borehole Abandoned.										

hereby certify that the information on this form is true and correct to the best of my knowledge

ignature: Firm: METCO

his form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of etween $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used r any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000 Page 1 of 2

Notice: Please complete Form 3300-5 and return it to the appropiate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management [X] Remediation/Redevelopment ☐ Other _____

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: BUFFALO

Common Well Name: G-5 | Gov't Lot (If applicable): _____

Grid Location: SE 1/4 of NW 1/4 of Sec. 8 ; T. 23 N; R. 10 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 11 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: Lueptow Property

Facility ID | License/Permit/Monitoring No.

Street Address of Well: W448 County Road Z

City, Village, or Town: Mondovi

Present Well Owner: Lisa Lueptow | Original Owner

Street Address or Route of Owner: W448 County Road Z

City, State, Zip Code: Mondovi WI 54755-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 4/15/2013

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (Specify) Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 16 (From groundsurface) Casing Diameter (in.) 2

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 11

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	[X] Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
[X] Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	16	24	

(6) Comments: Abandoned by Geiss under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 4/15/2013

Signature of Person Doing Work | Date Signed: 5/14/13

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: X Other:

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Lueptow Property		G-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC	04/15/13 MM/ DD/ YYYY	04/15/13 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL		2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 29' 16"	N E
SE¼ of NW¼ of Section 8 , T 23 N, R 10 W	Long 91° 37' 11"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Buffalo	6	Town of Dover (Mondovi)

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-6-1 (0-4 feet)	42		4	Tan sandy silt	SP-SM			0			M			No Petro Odor
G-6-2 (4-8 feet)	42		8	Tan fine to medium grained sand	SP			0			M			No Petro Odor
G-6-3 (8-12 feet)	42		12	Orange fine to coarse grained sand	SP			0			M			No Petro Odor
G-6-4 (12-16 feet)	42		16	Orange fine to coarse grained sand	SP			0			M			No Petro Odor
G-6-5 (16-20 feet)	42		20	Orange fine to coarse grained sand	SP			0			M			No Petro Odor
G-6-6 (20-24 feet) G-6-W (19-24 feet)	48		24	Orange fine to coarse grained sand EOB 24 Feet Groundwater sample G-6-W collected.. Borehole Abandoned.	SP			0			M/W			No Petro Odor

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: **METCO**

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000 Page 1 of 2

Notice: Please complete Form 3300-5 and return it to the appropiate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forteiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management [X] Remediation/Redevelopment ☐ Other _____

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ | DNR Well ID No. | County: BUFFALO

Common Well Name: G-6 Gov't Lot (If applicable)

Grid Location: SE 1/4 of NW 1/4 of Sec. 8 ; T. 23 N; R. 10 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 11 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: Lueptow Property

Facility ID | License/Permit/Monitoring No.

Street Address of Well: W448 County Road Z

City, Village, or Town: Mondovi

Present Well Owner: Lisa Lueptow | Original Owner

Street Address or Route of Owner: W448 County Road Z

City, State, Zip Code: Mondovi WI 54755-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 4/15/2013

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (Specify) Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 24 (From groundsurface)
Casing Diameter (in.) 2
Casing Depth (ft.) _____
Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 19

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	[X] Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
[X] Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	24	36	

(6) Comments: Abandoned by Geiss under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO)

Date of Abandonment: 4/15/2013

Signature of Person Doing Work: Eric Dahl

Date Signed: 5/19/13

Street or Route: 709 Gillette St. Ste. 3

Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: X Other:

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Lueptow Property		G-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/15/13	04/15/13	Geoprobe
Firm: Geiss Soil & Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL		2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 29 ' 16"	N E
SE¼ of NW¼ of Section 8 , T 23 N, R 10 W	Long 91 ° 37 ' 11 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Buffalo	6	Town of Dover (Mondovi)

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity index	P 200	RQD / Comments
G-7-1 (0-4 feet)	42		4	Tan sandy silt	SP-SM			0			M			No Petro Odor
G-7-2 (4-8 feet)	48		8	Tan to orange fine to coarse grained sand	SP			0			M			No Petro Odor
G-7-3 (8-12 feet)	48		12	Brown to tan fine to coarse grained sand	SP			0			M			No Petro Odor
G-7-4 (12-16 feet)	42		16	Orange fine to coarse grained sand	SP			0			M			No Petro Odor
G-7-5 (16-20 feet)	48		20	Orange fine to coarse grained sand	SP			0			M			No Petro Odor
G-7-6 (20-24 feet)	48		24	Green to orange fine to coarse grained sand	SP			0			M/W			No Petro Odor
G-7-W (19-24 feet)				EOB 24 Feet Groundwater sample G-7-W collected.. Borehole Abandoned.										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: **METCO**

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management [X] Remediation/Redevelopment ☐ Other _____

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ | DNR Well ID No. | County: BUFFALO

Common Well Name: G-7 | Gov't Lot (If applicable):

Grid Location: SE 1/4 of NW 1/4 of Sec. 8 ; T. 23 N; R. 10 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 11 " or

St. Plane _____ ft. N. _____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: Lueptow Property

Facility ID | License/Permit/Monitoring No.

Street Address of Well: W448 County Road Z

City, Village, or Town: Mondovi

Present Well Owner: Lisa Lueptow | Original Owner

Street Address or Route of Owner: W448 County Road Z

City, State, Zip Code: Mondovi WI 54755-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 4/15/2013

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (Specify) Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 24 (From groundsurface)

Casing Diameter (in.) 2

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 19

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	[X] Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
[X] Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	24	36	

(6) Comments: Abandoned by Geiss under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 4/15/2013

Signature of Person Doing Work | Date Signed: 5/14/13

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: X Other:

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Lueptow Property		G-8

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/15/13	04/15/13	Geoprobe
Firm: Geiss Soil & Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL		2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 29 ' 16"	N E
SE¼ of NW¼ of Section 8 , T 23 N, R 10 W	Long 91 ° 37 ' 11 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Buffalo	6	Town of Dover (Mondovi)

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-8-1 (0-4 feet)	42		2	0-3' Tan sandy silt	SP-SM			0			M			No Petro Odor
			4	3'-4' Orange very fine to fine grained sand	SP									
			6											
G-8-2 (4-8 feet)	36		8	Orange very fine to fine grained sand	SP			0			M			No Petro Odor
			10											
G-8-3 (8-12 feet)	42		12	Orange fine to medium grained sand	SP			0			M			No Petro Odor
			14											
G-8-4 (12-16 feet)	48		16	Orange fine to medium grained sand	SP			0			M			No Petro Odor
			18											
G-8-5 (16-20 feet)	36		20	Orange fine to coarse grained sand	SP			0			M			No Petro Odor
			22											
G-8-6 (20-24 feet)	48		24	Orange fine to coarse grained sand	SP			0			M/W			No Petro Odor
G-8-W (19-24 feet)				EOB 24 Feet Groundwater sample G-8-W collected.. Borehole Abandoned.										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: **METCO**

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management [X] Remediation/Redevelopment ☐ Other _____

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ | DNR Well ID No. | County: BUFFALO

Common Well Name: G-8 Gov't Lot (If applicable)

Grid Location: SE 1/4 of NW 1/4 of Sec. 8 ; T. 23 N; R. 10 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 11 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: Lueptow Property

Facility ID | License/Permit/Monitoring No.

Street Address of Well: W448 County Road Z

City, Village, or Town: Mondovi

Present Well Owner: Lisa Lueptow | Original Owner

Street Address or Route of Owner: W448 County Road Z

City, State, Zip Code: Mondovi WI 54755-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 4/15/2013

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (Specify) Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 24 (From groundsurface) Casing Diameter (in.) 2

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 19

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	[X] Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
[X] Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	24	36	

(6) Comments: Abandoned by Geiss under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 4/15/2013

Signature of Person Doing Work | Date Signed: 5/14/13

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: X Other:

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Lueptow Property		G-9

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/15/13	04/15/13	Geoprobe
Firm: Geiss Soil & Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL		2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 29 ' 16"	N E
SE¼ of NW¼ of Section 8 , T 23 N, R 10 W	Long 91 ° 37 ' 11 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Buffalo	6	Town of Dover (Mondovi)

Sample Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			0	Concrete										
G-9-1 (0-4 feet)	42		4	Green sandy silt	SP-SM			0			M			No Petro Odor
G-9-2 (4-8 feet)	36		8	Tan fine to medium grained sand	SP			0			M			No Petro Odor
G-9-3 (8-12 feet)	42		12	Tan fine to coarse grained sand	SP			0			M			No Petro Odor
G-9-4 (12-16 feet)	48		16	Orange fine to coarse grained sand	SP			0			M			No Petro Odor
G-9-5 (16-20 feet)	36		20	Orange fine to coarse grained sand	SP			0			M			No Petro Odor
G-9-6 (20-24 feet) G-9-W (19-24 feet)	48		24	Orange fine to coarse grained sand	SP			0			M/W			No Petro Odor
				EOB 24 Feet Groundwater sample G-9-W collected.. Borehole Abandoned.										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: **METCO**

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management [X] Remediation/Redevelopment ☐ Other

(1) GENERAL INFORMATION

WI Unique Well No.	DNR Well ID No.	County
_ _ _ _ _ _		BUFFALO

Common Well Name G-9 Gov't Lot (If applicable)

SE 1/4 of NW 1/4 of Sec. 8 ; T. 23 N; R. 10 ☐ E [X] W
Grid Location

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 16 " or

St. Plane _____ ft. N. _____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment	WI Unique Well No.
Sampling complete	of Replacement Well _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name
Lueptow Property

Facility ID	License/Permit/Monitoring No.

Street Address of Well
W448 County Road Z

City, Village, or Town
Mondovi

Present Well Owner	Original Owner
Lisa Lueptow	

Street Address or Route of Owner
W448 County Road Z

City, State, Zip Code
Mondovi WI 54755-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date 4/15/2013

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (Specify) Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 24 (From groundsurface)
Casing Diameter (in.) 2
Casing Depth (ft.) _____
Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 19

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	[X] Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
[X] Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	24	36	

(6) Comments: Abandoned by Geiss under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO)
Date of Abandonment: 4/15/2013

Signature of Person Doing Work: [signature]
Date Signed: 5/14/13

Street or Route: 709 Gillette St. Ste. 3
Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received	Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: X Other:

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Lueptow Property		G-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/15/13	04/15/13	Geoprobe
Firm: Geiss Soil & Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL		2 inches

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44 ° 29 ' 16"	N E
SE¼ of NW¼ of Section 8 , T 23 N, R 10 W	Long 91 ° 37 ' 11 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Buffalo	6	Town of Dover (Mondovi)

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-10-1 (0-4 feet)	42		2–4	Brown sandy silt	SP-SM			0			M			No Petro Odor
			6	4'-7' Brown sandy silt	SP-SM									
G-10-2 (4-8 feet)	36		8	7'-8' Orange fine to medium grained sand	SP			0			M			No Petro Odor
			10											
G-10-3 (8-12 feet)	42		12	Orange fine to coarse grained sand	SP			0			M			No Petro Odor
			14											
G-10-4 (12-16 feet)	48		16	Tan to green fine to coarse grained sand	SP			0			M			No Petro Odor
			18											
G-10-5 (16-20 feet)	36		20	Tan to green fine to coarse grained sand	SP			0			M			No Petro Odor
			22											
G-10-6 (20-24 feet)	48		24	Tan to green fine to coarse grained sand	SP			0			M/W			No Petro Odor
G-10-W (19-24 feet)				EOB 24 Feet Groundwater sample G-10-W collected.. Borehole Abandoned.										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: METCO

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000 Page 1 of 2

Notice: Please complete Form 3300-5 and return it to the appropiate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forteiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management [X] Remediation/Redevelopment ☐ Other _____

(1) GENERAL INFORMATION

WI Unique Well No. _____ | DNR Well ID No. _____ | County: BUFFALO

Common Well Name: G-10 Gov't Lot (If applicable): _____

Grid Location: SE 1/4 of NW 1/4 of Sec. 8 ; T. 23 N; R. 10 ☐ E [X] W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 44 ° 29 ' 16 " Long 91 ° 37 ' 11 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _____

(2) FACILITY/OWNER INFORMATION

Facility Name: Lueptow Property

Facility ID: _____ License/Permit/Monitoring No.: _____

Street Address of Well: W448 County Road Z

City, Village, or Town: Mondovi

Present Well Owner: Lisa Lueptow | Original Owner: _____

Street Address or Route of Owner: W448 County Road Z

City, State, Zip Code: Mondovi WI 54755-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 4/15/2013

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (Specify) Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 24 (From groundsurface) Casing Diameter (in.) 2

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 19

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	[X] Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
[X] Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	24	36	

(6) Comments: Abandoned by Geiss under METCO supervision.

(7) Name of Person or Firm Doing Sealing Work: Eric Dahl (METCO) | Date of Abandonment: 4/15/2013

Signature of Person Doing Work: [signature] | Date Signed: 5/14/13

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608)781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received _____ | Noted By _____

Comments _____

APPENDIX D/ OTHER DOCUMENTATION

Petroleum Substance Discharged	Analysis of Samples Collected for UST Tank Closure Assessments	Solid Waste Program Requirements for Soils to be landfilled[5]	Site Investigation, Pretreatment and Posttreatment Sample Analysis[11]
Regular Gasoline	GRO[2]	Free Liquids[6] GRO Benzene[7] Pb[7] Haz. Waste Deter.[8]	GRO VOC/PVOC[15] Pb[12]
Unleaded Gasoline; Grades 80 100, and 100 LL (Low Lead) Aviation Fuel	GRO[2]	Free Liquids[6] GRO Benzene[7] Pb[7] Haz. Waste Deter.[8]	GRO PVOC
Diesel; Jet Fuels; and No's 1, 2, and 4 Fuel Oil	DRO[3]	Free Liquids[6] DRO Benzene[7] Haz. Waste Deter.[8]	DRO[3] PVOC PAH[13 14]
Crude Oil; Lubricating Oils; No. 6 Fuel Oil	DRO[3]	Free Liquids[6] DRO Haz. Waste Deter.[8]	DRO[3] PAH[13 14]
Unknown Petroleum	GRO[7] and DRO[3 4]	Free Liquids[6] GRO and DRO Pb, Cd[7] Haz. Waste Deter.[8] CN[19] S[2 10]	GRO and DRO[3 4] VOC/PVOC[15] PAH[13 14] Pb, Cd[12]
Waste Oil	DRO[3]	Free Liquids[6] DRO Pb, Cd[7] Haz. Waste Deter.[8] CN[19] S[2 10]	DRO[3] VOC/PVOC[15] PAH[13 14] PCBs[16] Pb, Cd[12]

Abbreviations:

GRO - Gasoline Range Organics, Determined by the Wisconsin Modified GRO Method

DRO - Diesel Range Organics, Determined by the Wisconsin Modified DRO Method

VOC - Volatile Organic Compounds (See Section 11.1 for a list of VOC compounds)

PVOC - Petroleum Organic Compounds (See Section 11.2 for a list of PVOC compounds)

PAH - Polynuclear Aromatic Hydrocarbons (See Section 11.3 for a list of the PAH compounds)

PCBs - Polychlorinated Biphenyls

Pb - Lead

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

TABLE 1
SAMPLE & PRESERVATION REQUIREMENTS FOR WATER and DRINKING WATER SAMPLES

Test	Original Sample Container	Preserved	Holding Time to Analysis
WET CHEMISTRY			
Alkalinity SM2320B/EPA 310.2	250 mL HDPE	4°C	14 days
Ammonia EPA 350.1	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
BOD, cBOD SM5210B	500 ml HDPE	4°C	48 hrs.
COD EPA 410.4	500 ml HDPE	4°C, pH<2 with H_2SO_4	28 days
Chloride EPA 300.0/EPA 325.2	250 mL HDPE	4°C	28 days
Cyanide SW846 9012A/SM4500-CN-C	1000 mL HDPE	4°C, pH>12 with NaOH	14 days
Flashpoint SW846 1010	250 mL HDPE	4°C	28 days
Fluoride EPA 300.0	250 mL HDPE	4°C	28 days
Hardness SW846 6010B	250 mL HDPE	4°C, pH<2 with HNO_3	180 days
TKN EPA 351.2	1 Liter HDPE	4°C, pH<2 with H_2SO_4	28 days
Nitrate EPA 300.0	250 mL HDPE	4°C	48 hours
Nitrate+Nitrite EPA 300.0	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
Nitrite EPA 300.0	250 mL HDPE	4°C	48 hours
Oil & Grease EPA 1664	1 Liter Glass	4°C, pH<2 with H_2SO_4	28 days
Organic Carbon SW846 9060/ EPA 415.1	40 ml Glass	4°C, pH<2 with H_2SO_4 or HCL	28 days
Phenol, Total EPA 420.1	1 Liter Glass	4°C, pH<2 with H_2SO_4	28 days
Phosphorus, Total EPA 365.3	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
Sulfate EPA 300.0	250 mL HDPE	4°C	28 days
Total Dissolved Solids EPA 160.1	250 ml HDPE	4°C	7 days
Total Solids EPA 160.3	250 ml HDPE	4°C	7 days
Total Suspended Solids EPA 160.2	250 mL HDPE	4°C	7 days
METALS			
Metals	250 mL HDPE	4°C, pH<2 with HNO_3	6 months
Mercury SW8467470/EPA 245.1	250 mL HDPE	4°C, pH<2 with HNO_3	28 days
ORGANICS			
Semivolatiles SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted .	4°C	7 days extr. 40 days following extr
PAH SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted	4°C	7 days extr. 40 days following extr
PCB SW846 8082	1 Liter amber glass, collect 2 for one of the samples submitted.	4°C	7 days extr. 40 days following extr
DRO, Modified DNR Sep 95	1 Liter amber glass with Teflon lined cap	4°C, 5 mL 50% HCl	7 days extr. 40 days following extr
VOC'S SW846 8260B/EPA524.2	(3) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl, No Headspace	14 days
GRO/VOC	(4) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO, Modified DNR Sep 95	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO/PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days

All samples are to be cooled to 4°C until tested.
HDPE = High Density Polyethylene.

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

TABLE 2
SAMPLE & PRESERVATION REQUIREMENTS FOR SOIL SAMPLES

Test	Original Sample Container	Preserved	Holding Times from Date and Time of Collection			
			Solvent Addition	Shipping	Extraction	Analysis
METALS						
Metals	2 oz glass or soil cup	4°C	NA	NA	NA	180 days
Mercury SW846 7471	2 oz glass or soil cup	4°C	NA	NA	NA	28 days
Chromium Hexavalent SM3500-Cr	2 oz glass or soil cup	4°C	NA	NA	NA	24 hours
ORGANICS						
Any combinations of GRO, VOC, PVOC	1- tared VOC vial with 10 mls methanol, 13 grams of soil collected with syringe	4°C, 1:1 with methanol	Immediately	4 days	21 days	21 days
DRO, Modified	1- tared VOC vial, 13 grams of soil collected with syringe jar	4°C, Hexane	10 days	4 days	47 days	47 days
PAH, SW846 8270C	2 oz glass untared	4°C	NA	NA	14 days	40 days
Semivolatile SW846 8270C	2 oz glass untared	4°C	NA	NA	14 days	40 days
PCB SW846 8082	2 oz glass untared	4°C	NA	NA	14 days	40 days

All samples are to be cooled to 4°C until tested.

(b) No soil contamination is present at the site that exceeds any of the soil screening levels in Table 1.

Table 1
Indicators of Residual Petroleum Product in Soil Pores

	Soil Screening Levels (mg/kg)
Benzene	8.5
1,2-DCA	0.6
Ethylbenzene	4.6
Toluene	38
Xylene	42
1,2,4 – Trimethylbenzene	83
1,3,5 – Trimethylbenzene	11
Naphthalene	2.7

(c) There is no soil contamination within 4 feet of the ground surface that exceeds any of the direct contact soil contaminant concentrations for the substances listed in Table 2.

Table 2
Protection of Human Health from Direct Contact with Contaminated Soil

Substance	Soil Contaminant Concentrations (Top 4 ft of the soil) (mg/kg)
Benzene	1.10
1,2-Dichloroethane (DCA)	0.54

HAZARDOUS SUBSTANCE/WASTE RELEASES:

INTERIM SOIL CLEANUP GUIDELINES--PETROLEUM CONTAMINATION

			DNR Closeout Action	
BTEX (1)	GRO/DRO	Soil Type (2)	Soils Accessible	Soils Inaccessible or accessible and not technically and economically feasible
<= NR 720	<= 100 ppm	Permeable (K>10 E-6 cm/s)	Close	Close
<= NR 720	<= 250 ppm	Less Permeable (K<=10 E-6 cm/s)	Close	Close
<= NR 720 or > NR 720	> applic. GRO/DRO		Require additional work	Close with consideration of deed instrument according to guidelines

---

(1) BTEX: proposed criteria developed in preparation of NR 720:

Benzene	5.5 ug/kg
Toluene	1500 ug/kg
Ethylbenzene	2900 ug/kg
Xylenes	4100 ug/kg
1,2-DCA	4.9 ug/kg

(2) K: Saturated hydraulic conductivity

cleanup levels for the polycyclic aromatic hydrocarbons (PAHs). The generic GRO/DRO soil cleanup levels included in s. NR 720.09(4), Wis. Adm. Code, were developed as "catch-alls" for other petroleum compounds with consideration of the PAHs in mind. However, GRO and DRO are indicator parameters for petroleum contamination and situations are likely where these are not adequate or appropriate.

The PAHs include more than a hundred compounds with fused benzene rings. They comprise a large family of compounds with a rather large range of toxic potency (IARC, 1983; Santodonato et al., 1981). PAHs are products of incomplete combustion and are components of petroleum. They are ubiquitous in the environment from both natural and anthropogenic sources. PAHs are seldom found separately in the environment; rather, they occur as complex mixtures of numerous compounds. The specific PAH compounds addressed in this guidance are shown in Table 1. While these compounds are likely to be the most common PAHs encountered at most sites (ATSDR, 1995a; 1995b), their inclusion does not imply that these are the only PAH compounds of concern. Additional PAH compounds may be of concern at some sites and these should be evaluated on a site-specific basis.

Previous approaches to developing soil cleanup levels for PAHs have typically assumed that all carcinogenic PAHs are equipotent to benzo[*a*]pyrene (BaP). It has become apparent in recent years that the equipotency approach results in an overestimation of the carcinogenic risks associated with PAHs (U.S. EPA, 1993; LaGoy and Quirk, 1994). The basis for establishing risk-based soil cleanup levels for "total PAHs" relies on assumptions regarding the composition of a PAH mixture combined with assumed equipotency with benzo[*a*]pyrene or toxic equivalency factors. Thus, cleanup levels for "total PAHs" are inherently site-specific and generic values tend to be overly conservative.

Development of Suggested Generic Soil Cleanup Levels for PAHs

The suggested generic soil cleanup levels for PAHs provided in this guidance were developed consistent with the methodology used in developing the generic RCLs in ch. NR 720, Wis. Adm. Code, and with the procedures outlined in s. NR 720.19(4)-(5), Wis. Adm. Code. The suggested generic residual contaminant levels (RCLs) for individual PAH compounds are shown in Table 1.

Table 1. – Suggested generic residual contaminant levels (RCLs) for PAH compounds in soil (mg/kg)

Compound	CAS #	Groundwater Pathway	Direct Contact Pathway	
			Non-industrial	Industrial
acenaphthene	83-32-9	38	900	60000
acenaphthylene	208-96-8	0.7	18	360
anthracene	120-12-7	3000	5000	300000
benz[*a*]anthracene	56-55-3	17	0.088	3.9
benzo[*a*]pyrene	50-32-8	48	0.0088	0.39
benzo[*b*]fluoranthene	205-99-2	360	0.088	3.9
benzo[*ghi*]perylene	191-24-2	6800	1.8	39
benzo[*k*]fluoranthene	207-08-9	870	0.88	39
chrysene	218-01-9	37	8.8	390
dibenz[*ah*]anthracene	53-70-3	38	0.0088	0.39
fluoranthene	206-44-0	500	600	40000
fluorene	86-73-7	100	600	40000
indeno[123-*cd*]pyrene	193-39-5	680	0.088	3.9
1-methyl naphthalene	90-12-0	23	1100	70000
2-methyl naphthalene	91-57-6	20	600	40000
naphthalene	91-20-3	0.4	20	110
phenanthrene	85-01-8	1.8	18	390
pyrene	129-00-00	8700	500	30000

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(22) "Wastewater and sludge storage or treatment lagoon" means a natural or man-made containment structure, constructed primarily of earthen materials for the treatment or storage of wastewater or sludge, which is not a land disposal system.

History: Cr. Register, September, 1985, No. 357, eff. 10–1–85; cr. (1m), am. (7), (17) and (18), Register, October, 1988, No. 394, eff. 11–1–88; am. (6), cr. (20h) and (20m), Register, March, 1994, No. 459, eff. 4–1–94; cr. (1s), (10e), (10s), (20k), r. and recr. (12), (13), Register, August, 1995, No. 476, eff. 9–1–95; cr. (14m), Register, October, 1996, No. 490, eff. 11–1–96; am. (20), Register, December, 1998, No. 516, eff. 1–1–99; correction in (9) made under s. 13.93 (2m) (b) 7., Stats., Register, April, 2001, No. 544; CR 02–134: cr. (1u), (1w), (1y) and (20s) Register June 2003 No. 570, eff. 7–1–03.

Subchapter II — Groundwater Quality Standards

NR 140.10 Public health related groundwater standards. The groundwater quality standards for substances of public health concern are listed in Table 1.

Note: For all substances that have carcinogenic, mutagenic or teratogenic properties or interactive effects, the preventive action limit is 10% of the enforcement standard. The preventive action limit is 20% of the enforcement standard for all other substances that are of public health concern. Enforcement standards and preventive action limits for additional substances will be added to Table I as recommendations are developed pursuant to ss. 160.07, 160.13 and 160.15, Stats.

Table 1
Public Health Groundwater Quality Standards

Substance[1]	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Acetochlor	7	0.7
Acetochlor ethane sulfonic acid + oxanilic acid (Acetochlor – ESA + OXA)	230	46
Acetone	9 mg/l	1.8 mg/l
Alachlor	2	0.2
Alachlor ethane sulfonic acid (Alachlor – ESA)	20	4
Aldicarb	10	2
Aluminum	200	40
Ammonia (as N)	9.7 mg/l	0.97 mg/l
Antimony	6	1.2
Anthracene	3000	600
Arsenic	10	1
Asbestos	7 million fibers per liter (MFL)	0.7 MFL
Atrazine, total chlorinated residues	3[2]	0.3[2]
Bacteria, Total Coliform	0[3]	0[3]
Barium	2 milligrams/liter (mg/l)	0.4 mg/l
Bentazon	300	60
Benzene	5	0.5
Benzo(b)fluoranthene	0.2	0.02
Benzo(a)pyrene	0.2	0.02
Beryllium	4	0.4
Boron	1000	200
Bromodichloromethane	0.6	0.06
Bromoform	4.4	0.44
Bromomethane	10	1
Butylate	400	80
Cadmium	5	0.5
Carbaryl	40	4
Carbofuran	40	8
Carbon disulfide	1000	200
Carbon tetrachloride	5	0.5
Chloramben	150	30
Chlordane	2	0.2
Chlorodifluoromethane	7 mg/l	0.7 mg/l
Chloroethane	400	80
Chloroform	6	0.6
Chlorpyrifos	2	0.4
Chloromethane	30	3
Chromium (total)	100	10
Chrysene	0.2	0.02

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Table 1 – Continued
Public Health Groundwater Quality Standards

Substance[1]	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Cobalt	40	8
Copper	1300	130
Cyanazine	1	0.1
Cyanide, free[4]	200	40
Dacthal	70	14
1,2–Dibromoethane (EDB)	0.05	0.005
Dibromochloromethane	60	6
1,2–Dibromo–3–chloropropane (DBCP)	0.2	0.02
Dibutyl phthalate	1000	100
Dicamba	300	60
1,2–Dichlorobenzene	600	60
1,3–Dichlorobenzene	600	120
1,4–Dichlorobenzene	75	15
Dichlorodifluoromethane	1000	200
1,1–Dichloroethane	850	85
1,2–Dichloroethane	5	0.5
1,1–Dichloroethylene	7	0.7
1,2–Dichloroethylene (cis)	70	7
1,2–Dichloroethylene (trans)	100	20
2,4–Dichlorophenoxyacetic Acid (2,4–D)	70	7
1,2–Dichloropropane	5	0.5
1,3–Dichloropropene (cis/trans)	0.4	0.04
Di (2–ethylhexyl) phthalate	6	0.6
Dimethenamid/Dimethenamid–P	50	5
Dimethoate	2	0.4
2,4–Dinitrotoluene	0.05	0.005
2,6–Dinitrotoluene	0.05	0.005
Dinitrotoluene, Total Residues[5]	0.05	0.005
Dinoseb	7	1.4
1,4–Dioxane	3	0.3
Dioxin (2, 3, 7, 8–TCDD)	0.00003	0.000003
Endrin	2	0.4
EPTC	250	50
Ethylbenzene	700	140
Ethyl ether	1000	100
Ethylene glycol	14 mg/l	2.8 mg/l
Fluoranthene	400	80
Fluorene	400	80
Fluoride	4 mg/l	0.8 mg/l
Fluorotrichloromethane	3490	698
Formaldehyde	1000	100
Heptachlor	0.4	0.04
Heptachlor epoxide	0.2	0.02
Hexachlorobenzene	1	0.1
N–Hexane	600	120
Hydrogen sulfide	30	6
Lead	15	1.5
Lindane	0.2	0.02
Manganese	300	60
Mercury	2	0.2

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Table 1 – Continued
Public Health Groundwater Quality Standards

Substance[1]	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Methanol	5000	1000
Methoxychlor	40	4
Methylene chloride	5	0.5
Methyl ethyl ketone (MEK)	4 mg/l	0.8 mg/l
Methyl isobutyl ketone (MIBK)	500	50
Methyl tert-butyl ether (MTBE)	60	12
Metolachlor/s-Metolachlor	100	10
Metolachlor ethane sulfonic acid + oxanilic acid (Metolachlor – ESA + OXA)	1.3 mg/l	0.26 mg/l
Metribuzin	70	14
Molybdenum	40	8
Monochlorobenzene	100	20
Naphthalene	100	10
Nickel	100	20
Nitrate (as N)	10 mg/l	2 mg/l
Nitrate + Nitrite (as N)	10 mg/l	2 mg/l
Nitrite (as N)	1 mg/l	0.2 mg/l
N-Nitrosodiphenylamine	7	0.7
Pentachlorophenol (PCP)	1	0.1
Perchlorate	1	0.1
Phenol	2 mg/l	0.4 mg/l
Picloram	500	100
Polychlorinated biphenyls (PCBs)	0.03	0.003
Prometon	100	20
Propazine	10	2
Pyrene	250	50
Pyridine	10	2
Selenium	50	10
Silver	50	10
Simazine	4	0.4
Styrene	100	10
Tertiary Butyl Alcohol (TBA)	12	1.2
1,1,1,2-Tetrachloroethane	70	7
1,1,2,2-Tetrachloroethane	0.2	0.02
Tetrachloroethylene	5	0.5
Tetrahydrofuran	50	10
Thallium	2	0.4
Toluene	800	160
Toxaphene	3	0.3
1,2,4-Trichlorobenzene	70	14
1,1,1-Trichloroethane	200	40
1,1,2-Trichloroethane	5	0.5
Trichloroethylene (TCE)	5	0.5
2,4,5-Trichlorophenoxy-propionic acid (2,4,5-TP)	50	5
1,2,3-Trichloropropane	60	12
Trifluralin	7.5	0.75
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	480	96
Vanadium	30	6

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Table 1 – Continued
Public Health Groundwater Quality Standards

Substance[1]	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Vinyl chloride	0.2	0.02
Xylene[6]	2 mg/l	0.4 mg/l

[1] Appendix I contains Chemical Abstract Service (CAS) registry numbers, common synonyms and trade names for most substances listed in Table 1.

[2] Total chlorinated atrazine residues includes parent compound and the following metabolites of health concern: 2–chloro–4–amino–6–isopropylamino–s–triazine (formerly deethylatrazine), 2–chloro–4–amino–6–ethylamino–s–triazine (formerly deisopropylatrazine) and 2–chloro–4,6–diamino–s–triazine (formerly diaminoatrazine).

[3] Total coliform bacteria may not be present in any 100 ml sample using either the membrane filter (MF) technique, the presence–absence (P–A) coliform test, the minimal medium ONPG–MUG (MMO–MUG) test or not present in any 10 ml portion of the 10–tube multiple tube fermentation (MTF) technique.

[4] "Cyanide, free" refers to the simple cyanides (HCN, CN^-) and/or readily dissociable metal–cyanide complexes. Free cyanide is regulatorily equivalent to cyanide quantified by approved analytical methods for "amenable cyanide" or "available cyanide".

[5] Dinitrotoluene, Total Residues includes the dinitrotoluene (DNT) isomers: 2,3–DNT, 2,4–DNT, 2,5–DNT, 2,6–DNT, 3,4–DNT and 3,5–DNT.

[6] Xylene includes meta–, ortho–, and para–xylene combined.

History: Cr. Register, September, 1985, No. 357, eff. 10–1–85; am. table 1, Register, October, 1988, No. 394, eff. 11–1–88; am. table 1, Register, September, 1990, No. 417, eff. 10–1–90; am. Register, January, 1992, No. 433, eff. 2–1–92; am. Table 1, Register, March, 1994, No. 459, eff. 4–1–94; am. Table 1, Register, August, 1995, No. 476, eff. 9–1–95; am. Table 1, Register, December, 1998, No. 516, eff. 1–1–99; am. Table 1, boron, Register, December, 1998, No. 516, eff. 12–31–99; am. Table 1, Register, March, 2000, No. 531, eff. 4–1–00; CR 03–063: am Table 1, Register February 2004 No. 578, eff. 3–1–04; CR 02–095: am. Table 1, Register November 2006 No. 611, eff. 12–1–06; reprinted to correct errors in Table 1, Register January 2007 No. 613; CR 07–034: am. Table 1 Register January 2008 No. 625, eff. 2–1–08; **CR 09–102: am. Table 1 Register December 2010 No. 660, eff. 1–1–11.**

NR 140.12 Public welfare related groundwater standards. The groundwater quality standards for substances of public welfare concern are listed in Table 2.

Note: For each substance of public welfare concern, the preventive action limit is 50% of the established enforcement standard.

Table 2
Public Welfare Groundwater Quality Standards

Substance	Enforcement Standard (milligrams per liter – except as noted)	Preventive Action Limit (milligrams per liter – except as noted)
Chloride	250	125
Color	15 color units	7.5 color units
Foaming agents MBAS (Methylene–Blue Active Substances)	0.5	0.25
Iron	0.3	0.15
Manganese	0.05	0.025
Odor	3 (Threshold Odor No.)	1.5 (Threshold Odor No.)
Sulfate	250	125
Zinc	5	2.5

History: Cr. Register, September, 1985, No. 357, eff. 10–1–85; am. table 2, Register, October, 1990, No. 418, eff. 11–1–90; am. Table 2, Register, March, 1994, No. 459, eff. 4–1–94.

NR 140.14 Statistical procedures. (1) If a preventive action limit or an enforcement standard for a substance listed in Table 1 or 2, an alternative concentration limit issued in accordance with s. NR 140.28 or a preventive action limit for an indicator parameter established according to s. NR 140.20 (2) is attained or exceeded at a point of standards application:

(a) The owner or operator of the facility, practice or activity at which a standard is attained or exceeded shall notify the appropriate regulatory agency that a standard has been attained or exceeded; and

(b) The regulatory agency shall require a response in accordance with the rules promulgated under s. 160.21, Stats. No response shall be required if it is demonstrated to the satisfaction of the appropriate regulatory agency that a scientifically valid determination cannot be made that the preventive action limit or enforcement standard for a substance in Table 1 or 2 has been attained or exceeded based on consideration of sampling procedures or laboratory precision and accuracy, at a significance level of 0.05.

(2) The regulatory agency shall use one or more valid statistical procedures to determine if a change in the concentration of a substance has occurred. A significance level of 0.05 shall be used for all tests.

(3) In addition to sub. (2), the following applies when a preventive action limit or enforcement standard is equal to or less than the limit of quantitation:

(a) If a substance is not detected in a sample, the regulatory agency may not consider the preventive action limit or enforcement standard to have been attained or exceeded.

(b) If the preventive action limit or enforcement standard is less than the limit of detection, and the concentration of a substance is reported between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or enforcement standard to be attained or exceeded only if:

1. The substance has been analytically confirmed to be present in the same sample using an equivalently sensitive analytical method or the same analytical method, and

2. The substance has been statistically confirmed to be present above the preventive action limit or enforcement standard, determined by an appropriate statistical test with sufficient samples at a significance level of 0.05.

(c) If the preventive action limit or enforcement standard is between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or

APPENDIX E/ QUALIFICATIONS OF METCO PERSONNEL

Ronald J. Anderson, P.G.

Professional Titles

- Senior Hydrogeologist
- Project Manager

Credentials

- Licensed Professional Geologist in Wisconsin
- Licensed Professional Geologist in Minnesota
- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Hydrogeologist
- Certified by State of Wisconsin/DSPS to conduct PECFA-funded LUST projects
- Certified tank closure site assessor (#41861) in Wisconsin
- Member of the Wisconsin Groundwater Association
- Member of the Minnesota Groundwater Association
- Member of the Federation of Environmental Technologist, Inc.
- Member of the Wisconsin Fabricare Institute

Education

Includes a BA in Earth Science from the University of Minnesota-Duluth. Applicable courses successfully completed include Hydrogeology, Applied Hydrogeology, Environmental Geology, Geological Field Methods, Geology Field Camp, Geomorphology, Structural Geology, Stratigraphy/Tectonics, Mineralogy/Petrology, Glacial/Quaternary Geology, Geology of North America, Oceanography, General Chemistry, Organic Chemistry, and Environmental Conservation

Post-Graduate Education

Includes Personnel Protection and Safety, Conducting Comprehensive Environmental Property Assessments, Groundwater Flow and Well Hydraulics, Effective Techniques for Contaminated Groundwater Treatment, and numerous other continuing education classes and conferences.

Work Experience

Includes nine months with the Wisconsin Department of Natural Resources Leaking Underground Storage Tank Program regulating LUST sites and since June 1990, with METCO as a Hydrogeologist and Project Manager. Duties have included: managing, conducting, and reporting tank closure assessments; property assessment, LUST investigations; spill investigations; agricultural chemical investigations, dry cleaning chemical investigations, general geotechnical/environmental investigations; Geoprobe projects (soil, groundwater, soil gas sampling); drilling projects (soil boring and monitoring wells); and remedial projects. Since 1989, METCO has sampled/consulted over 700 environmental sites.

Jason T. Powell

Professional Title

- Staff Scientist

Credentials

- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Scientist.

Education

Includes a BS in Groundwater Management from the University of Wisconsin- Stevens Point. Applicable courses successfully completed include Hydrogeology, Applied Hydrogeology, Environmental Geology, Hydrogeology-Groundwater Flow Modeling, Groundwater Management, Structural Geology, Mineralogy, Glacial Geology, Soils, Soil Physics, Hydrology, Geochemistry, Water Chemistry, Organic Chemistry, General Chemistry, Environmental Issues.

Post-Graduate Education

40-hour OSHA Hazardous Materials Safety Training course with 8-hour refresher course.

Work Experience

With METCO since May 1992 as a Geoprobe Assistant and Geoprobe Operator. In June 1995 to July 1996 as a Environmental Technician. In July 1996 as a Staff Scientist. Duties have included: LUST investigations; general geotechnical/environmental investigations; Geoprobe projects (soil, groundwater sampling); drilling projects (soil boring and monitoring wells); remedial projects (sampling, pilot tests, system operation/maintenance) and project management.

Eric J. Dahl

Professional Title

- Hydrogeologist

Credentials

- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Hydrogeologist.
- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#823519).
- Member of the Geological Society of America

Education

Includes B.S. in Geology from the University of Wisconsin-Eau Claire. Applicable courses successfully completed include Environmental Geology, Physical Hydrogeology, Chemical Hydrogeology, Computer Modeling in Hydrogeology, Aqueous Geochemistry, Field Geology I and II, Mineralogy and Petrology I and II, Sedimentology and Stratigraphy, Petroleum and Economic Geology, Earth Resources, Earth History, and Structural Geology.

Post-Graduate Education

40-hour OSHA Hazardous Materials Safety Training course with 8-hour refresher course.

Work Experience

With METCO since November 1999 as a Hydrogeologist. Duties have included: Site Investigations, Phase I and Phase II Environmental Site Assessments, Case Closure Requests/GIS Registry, geoprobe projects (oversight, direction, and sampling), drilling projects/monitoring well installation (oversight, direction, and sampling), soil excavation projects (oversight, direction, and sampling), geoprobe operation, and operation and maintenance of remedial systems.

Thomas P. Pignet, P.E.

Professional Titles

- Chemical Engineer
- Industrial Engineer

Credentials

- Licensed Professional Engineer in Wisconsin

Education

Undergraduate: B.S. in Chemical Engineering from the University of Wisconsin. Applicable courses include the standard chemistry curriculum - basic, physical, organic, etc. - plus engineering transport phenomena, chemical unit operations (e.g. separations), fluid mechanics, etc.

Post-Graduate Education

Ph.D. in Chemical Engineering from the University of Minnesota - with applicable special training in absorption & catalysis; M.S. in Industrial Engineering from the University of Wisconsin - Milwaukee - with special emphasis on statistical techniques and data analysis. Applicable further training: continuing education, semester-length courses in [1] Understanding Environmental & Safety Regulation; [2] Hazardous & Toxic Waste Management; plus a number of 1-2 day workshops - Fire & Explosion Safety; Small Quantity Generations of Hazardous Waste.

Work Experience

Includes ten years as a research chemical engineer with a large chemical manufacturer; one year as process development engineer and demonstration-scale test analyst on a unique coal gasification project; ten years in association with UW-M, teaching and consulting to industry on energy efficiency, waste minimization and productivity improvement. One year working with a small engineering consulting firm on energy, environmental, and process improvement projects, including LUST Investigations and Remediations. With METCO since February 2000. Duties include Remedial Action Plan preparation, pilot test design and performance, remedial systems design and implementation, and general management of METCO's remedial projects.

Brandon A. Walker

Professional Title

- Staff Scientist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#1052577).

Education

Includes B.S. in Geography and a minor in Environmental Studies from the University of Wisconsin- La Crosse. Applicable courses successfully completed include Water Resources, Ecology, Climate Systems, Earth Science, Zoology, Fundamentals of Cartography, Interpretation of Aerial Photography, Global Issues, Urban Geography, Environmental Sociology, and Environmental Studies.

Work Experience

With METCO since April 2007 as a Staff Scientist. Duties have included: soil and groundwater sampling, operation and maintenance of remedial systems, geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

Matt Michalski

Professional Title

- Staff Scientist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (# 1228116).

Education

Includes B.S. In Geography from University of Wisconsin – La Crosse: Applicable courses successfully completed include Geographic Field Methods, Water Resources, Environmental Hazards and Land Use, and Advanced Map Design.

Work Experience

With METCO since August 2012 as Staff Scientist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

APPENDIX F/ STANDARD OF CARE

STANDARD OF CARE

The analysis and conclusions expressed in this report are based upon data obtained from the indicated subsurface locations and from other sources discussed in this report. Actual subsurface conditions may vary and may not become evident without further assessment.

All work conducted by METCO is in accordance with currently accepted hydrogeologic and engineering practices and they neither imply nor intend warranty.

We appreciate the opportunity to be of service to you. If you have any questions or require additional information, please do not hesitate to contact us.

"I Jason T. Powell, hereby certify that I am a scientist as that term is defined in s.NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Jason T. Powell
Staff Scientist

10/31/13
Date

"I Ronald J. Anderson, hereby certify that I am a hydrogeologist as that term is defined in s.NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Ronald J. Anderson PG
Senior Hydrogeologist/Project Manager

10/31/13
Date

Hon, David F - DNR

From: Hon, David F - DNR
Sent: Tuesday, October 15, 2013 4:17 PM
To: 'Brandon Walker, METCO - Staff Scientist'
Subject: RE: Lueptow Property

Brandon,

Carry on with the SI report. If there are detects of lead, then it will probably be an NAR. You are right on, I will need to review the SI report before I make any decisions.

Thanks again for keeping me up to speed – I really appreciate it!!

David Hon
Hydrogeologist
Statewide Air and Waste Complaint Coordinator
Wisconsin Department of Natural Resources
West Central Region
1300 W Clairemont Ave.
Eau Claire, WI 54702-4001
(☎) phone: (715) 839-3750
(✉) e-mail: david.hon@wi.gov

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From: Brandon Walker, METCO - Staff Scientist [mailto:brandonw@metcohq.com]
Sent: Tuesday, October 15, 2013 4:14 PM
To: Hon, David F - DNR
Subject: Re: Lueptow Property

Sounds good David. I won't request any fee's then. I will let you review the file before any clear cut decisions have been made though, but I will continue to work on the SI Report (unless you would advise against). I spoke with Jason about this and he sounded pretty reluctant about it being completely removed from BRRTS (there were some detects for Lead), especially since the SI work has been done. Either way, I will let you review the file and come to your conclusion(s). I anticipate your response.

Brandon Walker
METCO - Staff Scientist
brandonw@metcohq.com / 608.781.8879
709 Gillette Street - Suite 3, La Crosse WI 54603
www.metcohq.com

On 10/15/2013 3:19 PM, Hon, David F - DNR wrote:

> Brandon,

Again, I have not reviewed the file and am basing my thoughts on what you're telling me. Based on what you are saying here are my conclusions:

- The site was opened based on anecdotal evidence with no analytical data
- The tanks have been removed
- The groundwater and soil samples METCO took are below the detection limit (or ES? Or PAL? Or RCL?)

Basically, if the sample results were all ND, we will rescind the RP letter and take the case entirely off of BRRTS and there will be no closure request or fee necessary. This is because the site should never have been started in the first place by current DNR policy.

If the sample results are low level (<ES, preferably <PAL), we will call this a No Action Required, because this would have been the first analytical data we would find but low enough to not merit further investigation. This would keep the site as an 09 or NAR on BRRTS, but again, no closure request nor fee would be necessary.

I hope that helps. Feel free to contact me if you have further questions.

David Hon
Hydrogeologist
Statewide Air and Waste Complaint Coordinator
Wisconsin Department of Natural Resources
West Central Region
1300 W Clairemont Ave.
Eau Claire, WI 54702-4001
(☎) **phone:** (715) 839-3750
(✉) **e-mail:** david.hon@wi.gov

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From: Brandon Walker, METCO - Staff Scientist [mailto:brandonw@metcohq.com]
Sent: Tuesday, October 15, 2013 2:57 PM
To: Hon, David F - DNR
Subject: Re: Lueptow Property

Ok, good. Not much to this site, so I will get you up to speed as I have a question for you. A tank removal was conducted in 1991, however not by a certified entity and assessment samples were not collected at this time, therefore no confirmed exceedances. The local Fire Dept at least supervised the tank removal (they may have removed by them, it is not sure), and they stated holes were observed in the tanks (one 250-gal and one 500-gal). The next work completed for the site was by us, this April 2013. We completed 10 geoprobes with no samples exceeding any NR720 values. The only detect for any compound was for lead, but all were below the NR720. We also collected groundwater samples from each geoprobe as well as the potable well. All showed no detects.
I have just started working on the SI Report (and Closure Request), and my question for you is, what fee's, if any, will be needed for closure. Since no exceedances for either soil or groundwater has been confirmed for the site, there should be no GIS fee's correct? Also, will there even need to be a closure request

completed for this site, or could there be a "no further action" required for this site?

Brandon Walker
METCO - Staff Scientist
brandonw@metcohq.com / 608.781.8879
709 Gillette Street - Suite 3, La Crosse WI 54603
www.metcohq.com
On 10/15/2013 2:23 PM, Hon, David F - DNR wrote:

> Brandon, I have all Buffalo County sites that were in Tom K's name as of 2 weeks ago, but I have not yet reviewed them. I believe that site is mine. If you have any updates please let me know. Otherwise, I am sure we will be in touch after I do file reviews for his sites.

David Hon
Hydrogeologist
Statewide Air and Waste Complaint Coordinator
Wisconsin Department of Natural Resources
West Central Region
1300 W Clairemont Ave.
Eau Claire, WI 54702-4001
(☎) **phone:** (715) 839-3750
(✉) **e-mail:** david.hon@wi.gov

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From: Brandon Walker, METCO - Staff Scientist [mailto:brandonw@metcohq.com]
Sent: Tuesday, October 15, 2013 2:22 PM
To: Hon, David F - DNR
Subject: Lueptow Property

Hi David,

I was just wondering if you were the project manager for this site in Mondovi, or if you knew who was. I see BRRTS has it as Tom K., but I was under the assumption that all of his sites had been divided up. Let me know, thanks.
--

Brandon Walker
METCO - Staff Scientist
brandonw@metcohq.com / 608.781.8879
709 Gillette Street - Suite 3, La Crosse WI 54603
www.metcohq.com

COPY

LUST Investigation Field Procedures Workplan

Lueptow Property
W448 County Road Z
Mondovi, Wisconsin

October 2, 2012
by METCO
WDNR File Reference #: 03-06-000583
PECFA Claim #: 54747-9998-00

METCO

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This document was prepared by:

Jason T. Powell
Staff Scientist

Ronald J. Anderson, P.G.
Senior Hydrogeologist/Project Manager

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October 2, 2012

WDNR BRRTS#: 03-06-000583
PECFA Claim #: 54747-9998-00

Lisa Lisowski
W448 County Highway Z
Mondovi, WI 54755

Dear Ms. Lisowski,

Enclosed is our "LUST Investigation Field Procedures Workplan" concerning the Lueptow Property in Mondovi, Wisconsin. This document outlines the procedures and the methods used to conduct such an investigation.

A copy of this workplan will be sent to the Wisconsin Department of Natural Resources for review.

We appreciate the opportunity to be of service to you on this project. Should you have any questions or require additional information, do not hesitate to contact our La Crosse office.

Sincerely,

Jason T. Powell
Staff Scientist

C: Tom Kendzierski – WDNR

Table of Contents

LIST OF ACRONYMS

AST - Aboveground Storage Tank
ASTM - American Society for Testing and Materials
Cd - Cadmium
DOT - Department of Transportation
DRO - Diesel Range Organics
ES - Enforcement Standards
gpm - gallons per minute
GRO - Gasoline Range Organics
HNU - brand name for Photoionization Detector
ID - inside-diameter
LAST - Leaking Aboveground Storage Tank
LUST - Leaking Underground Storage Tank
MSL - Mean Sea Level
MTBE - Methyl-tert-butyl ether
MW - Monitoring Well
NIOSH - National Institute for Occupational Safety & Health
NR - Natural Resources
OD - outside-diameter
PAH - Polynuclear Aromatic Hydrocarbons
PAL - Preventive Action Limits
Pb - Lead
PECFA - Petroleum Environmental Cleanup Fund
PID - Photoionization Detector
POTW - Publicly Owned Treatment Works
ppb ug/kg - parts per billion
ppm mg/kg - parts per million
psi - pounds per square inch
PVC - Polyvinyl Chloride
PVOC - Petroleum Volatile Organic Compounds
RAP - Remedial Action Plan
scfm - standard cubic feet per minute
SVE - Soil Vapor Extraction
USCS - Unified Soil Classification System
USGS - United States Geological Survey
UST - Underground Storage Tank
VOC - Volatile Organic Compounds
WDNR - Wisconsin Department of Natural Resources
WDSPS - Wisconsin Department of Safety and Professional Services
WPDES - Wisconsin Pollutant Discharge Elimination System

LUST Investigation Field Procedures Workplan - METCO
Lueptow Property

OBJECTIVES

Requirements of the WDNR

A Leaking Underground Storage Tank (LUST) Investigation is required by the Wisconsin Department of Natural Resources (WDNR) by authority of Section 292.11 of the Wisconsin Statutes. According to the WDNR, any soil that tests over 10 ppm Gasoline Range Organics (GRO) or Diesel Range Organics (DRO) requires an investigation. Any soil that tests over the Chapter NR720 Soil Cleanup Standards or NR746 Table 1/Table 2 Values may require remediation. Any groundwater that tests over the Preventive Action Limits (PAL) or Enforcement Standards (ES) for compounds listed in Chapter NR140 of the Wisconsin Statutes requires an investigation and possible remediation. For a further explanation of WDNR rules and regulations, see Appendix D.

Requirements of the PECFA Program

According to rules adopted in May 2006, the maximum allowable cost for an initial LUST Investigation shall be no more than $20,000 unless pre-approved by PECFA. All consultant and commodity service costs must not exceed the Wisconsin Department of Safety and Professional Services (WDSPS) Usual and Customary Charges.

Purpose of Document

This document briefly outlines all methods and procedures used by METCO personnel concerning “LUST Investigations”. These guidelines are strictly followed unless changed by managing personnel, site conditions, or project situations. All changes will be clearly noted.

All work conducted by METCO is undertaken in accordance with approved methods and regulations of the WDNR Bureau for Remediation and Redevelopment and WDSPS Bureau of PECFA.

This document is site specific and will always be on-site during the project.

INTRODUCTION

Site Name

Lueptow Property

Site Address

W448 County Road Z
Mondovi, Wisconsin

Legal Description

SE ¼, NE ¼, Section 8, Township 23 North, Range 10 West, Buffalo County

Contact or Client

Lisa Lisowski
W448 County Road Z
Mondovi, WI 54755
(715) 946-3311

WDNR Project Manager

Tom Kendzierski
Wisconsin Department of Natural Resources
1300 W. Clairemont Avenue
P.O. Box 4001
Eau Claire, WI 54702-4001
(715) 839-1604

Consultant

METCO
Ronald J. Anderson, P.G.
Jason T. Powell
709 Gillette Street, Suite 3
La Crosse, WI 54603
(608) 781-8879

SITE BACKGROUND

Facility

The subject property was formerly a small country store with an attached living quarters. The subject property had a UST system for retail fuel sales that operated during the 1940's and 1950's.

In May 1991, the Mondovi Fire Department oversaw the removal of a 250-gallon leaded gasoline UST and a 500-gallon leaded gasoline UST. During the UST removal, petroleum contamination was encountered beneath the removed UST's. The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.

No other LUST/ERP sites are known to exist within three miles of the subject property.

Potential Risks and Impacts

The subject property and surrounding properties are all served by private potable wells. The potable well for the subject property exists approximately 50 feet to the east-northeast of the removed UST's and dispensers. Other nearby private water supply wells will be documented during the site investigation.

The nearest surface water is Elk Creek, which exists approximately 350 feet to the north of the subject property.

Building structures and utility corridors will be assessed during the investigation.

METCO is not currently aware of any other impacts, receptors, risks, or local problems associated with the subject property.

SITE CONDITIONS

Topography

According to the USGS Hydrologic Atlas, the subject property is located in the southern portion of the Trempealeau-Black River Basin. This area is characterized by rugged, steep-walled valleys and high relief, a lack of glacial deposits, and streams that have cut deeply into the relatively flat-lying bedrock.

The elevation of the site is approximately 840 feet above Mean Sea Level (MSL). See Appendix A for site location.

Geology

Native unconsolidated materials in this area generally consist of sand to silty sand. The unconsolidated materials are underlain by Cambrian sandstone at approximately 50 to 100 feet below ground surface.

Hydrology

The nearest surface water is Elk Creek, which exists approximately 350 feet to the north of the subject property.

Hydrogeology

Based on local topographic maps, groundwater exists at approximately 15-20 feet below ground surface. Groundwater flow direction is not known at this time, but expected to be toward the northwest to northeast.

SCOPE OF WORK

LUST Investigation

An investigation consists of collecting samples of soil and groundwater for analysis by a laboratory for compounds related to petroleum products. The WDNR requires that the investigation determine the degree and extent of contaminants in these mediums, which is commonly referred to as “defining the contaminant plume”. Further background information will also be collected to assist in the investigation.

Geoprobe Project

METCO has proposed a one to two day Geoprobe Project. We propose 12 to 16 borings to 20 feet with soil and groundwater sampling. The Geoprobe will be used to collect soil samples at various depths in order to determine the general extent of contaminants in the subsurface environment.

The goal of the Geoprobe Project is to complete the following:

1. Determine general subsurface geotechnical characteristics.
2. Determine general extent of the contaminants in the unconsolidated deposits.
3. Determine the general extent of contaminants in groundwater, if applicable.
4. Determine if contaminants have migrated to competent rock, if applicable.

This data will either completely define the extent of contamination or be used to guide the Drilling Project if required.

Drilling Project (if required)

METCO has proposed 6 to 8 boreholes to be completed on/off site. METCO has also proposed 5 to 7 monitoring wells to be installed on/off site. Based on the results of the Geoprobe project, we will be able to determine how many monitoring wells will need to be installed.

The goal of the Drilling Project is to complete the following:

1. Collect a soil sample for field analysis every 2.5 feet of boring.
2. Collect at least two soil samples for laboratory analysis in every boring.
3. Verify, through sampling, the horizontal and vertical extent of soil contamination, including smear zones.
4. Install monitoring wells in an arrangement that fully defines the horizontal and vertical extent of groundwater contamination.
5. Develop the monitoring wells.
6. Collect at least two rounds of groundwater samples from the monitoring wells.
7. If conditions warrant, perform slug tests on at least one monitoring well.

Report Preparation

The final report, prepared by METCO, will include background information, observations, procedures, methods, field data, laboratory analysis, site maps, data analysis, risk assessment, conclusions, and recommendations concerning all activities conducted for this project. This report will be submitted to the client and the WDNR or WDSPS for review and discussion.

METCO PROCEDURES AND METHODS

Geoprobe

The Geoprobe consists of a track mounted, hydraulically driven unit that advances 1-inch diameter, 3 or 4-foot long, stainless steel rods into the subsurface. At desired depths, either a soil or water sample can be collected.

A 4-foot or 5-foot long, ½ or 1-inch diameter soil sampler is advanced to the sampling location. At desired depths, a soil sample is collected and brought to the surface for analysis.

All Geoprobe holes are properly abandoned to ground level using bentonite clay and a surface seal.

Drilling

Drilling is conducted with a track mounted Geoprobe model 7822DT hollow stem auger/direct push drill rig. To penetrate any unconsolidated materials, work is conducted in accordance with ASTM D-1452 "Soil Investigation and Sampling by Auger Boring". If bedrock is encountered and cannot be penetrated with auger boring, an accepted air-rotary drilling procedure will be used.

Sampling unconsolidated materials is done using hydraulically driven unit that advances 1-inch diameter, 4 or 5-foot long, stainless steel rods into the subsurface. At desired depths, either a soil or water sample can be collected. A 4-foot or 5-foot long, ½ or 1-inch diameter soil sampler is advanced to the sampling location. At desired depths, a soil sample is collected and brought to the surface for analysis.

All borings are properly abandoned to ground level using bentonite clay.

HNU Screening

Each of the samples, for headspace analysis, are placed in a clean, clear, plastic Ziploc bag. These containers are to be filled ¼ full. All containers are the same size and filled to the same volume. The containers are then sealed.

Once collected and sealed, samples are shaken for 30 seconds to break apart soil clods. They are then allowed to establish headspace. The following table is used to determine headspace equilibration time.

Outside temperature Time to establish headspace

- <40 deg. F 40 minutes
- 41-55 deg. F 20 minutes
- 56-69 deg. F 10 minutes
- >70 deg. F 5 minutes

To take readings, the HNU probe is inserted into the plastic bag halfway between the sample and the highest meter response recorded. The samples are screened with a MODEL HW-101 HNU Meter equipped with a 10.2 eV lamp. Metered calibration is done at the beginning of each workday. Other notes

taken are as follows:

1. Temperature and weather conditions.
2. Date of last factory calibration.
3. Field calibration gas used and concentration.
4. Date and time of last calibration.
5. Instrument gain setting.
6. Erratic instrument readings.
7. Cleaning or repairs performed in the field.
8. Sample moisture (saturated, wet, moist, damp, dry).
9. Petroleum odors or staining of samples.
10. Any instrument quenching.
11. Other relevant information.

Monitoring Wells

Groundwater monitoring well installations are completed under the direction of a METCO hydrogeologist and in accordance with Wisconsin Department of Natural Resources Chapter NR141, "Groundwater Monitoring Well Requirements." The monitoring wells are constructed of flush-threaded, two-inch inside diameter schedule 40 or 80 polyvinyl chloride (PVC) piping. Ten-foot well screens with 0.010-inch slots are installed approximately 5 to 6 feet into the watertable. A uniform washed sand is installed around the well screens to serve as a filter pack. Granular bentonite is used above the filter pack to provide a surface seal. Steel, locking protective well casings are cemented in at each well. Any variances from NR141 will be reported to the WDNR.

Each well is developed by alternately surging and purging with a clean polyethylene bailer for 20 to 30 minutes to remove fines from the well screen, after which ten well volumes are removed using a submersible pump.

Groundwater level measurements are obtained using an electronic water level indicator. All measurements are recorded to the nearest 0.01-foot. The probe is thoroughly washed between measurements.

At least two rounds of samples are collected using a bottom loading, disposable, polyethylene bailer and disposable polyethylene cord. Approximately four well volumes are purged from each well before collecting samples.

Depending on site conditions and groundwater sampling results, a slug test may be conducted on one of the monitoring wells to determine hydrogeologic parameters (hydraulic conductivity, transmissivity, and flow velocity). During the slug test, groundwater in a monitoring well is displaced using a solid plastic slug, while water levels are recorded using a transducer and data logger. Water levels are recorded until the water level in the well returns to equilibrium. Slug test data is evaluated using the Bouwer and Rice method.

Well Elevation Survey

All wells are surveyed to the nearest 0.01-foot MSL by a qualified surveying company.

Sample Analysis

Environmental samples are collected to minimize both soil disturbance and exposure of the sample to the air.

Field observations such as soil characteristics, petroleum odors, product sheens, and staining associated with the samples are continuously noted throughout sampling.

The amount of sample taken, the size of the container used, and the type of sample preservation used, will depend on the laboratory contracted and for which parameters the soil samples are analyzed. See Appendix C for LUST Sample Guidelines.

All collected samples are stored in a cooler that maintains a temperature of, at most, 4 degrees Celsius. The coolers are accompanied by a complete chain of custody and are delivered to the laboratory within two days of sampling.

The WDNR document, “LUST Analytical and Quality Assurance Guidance, July 1993” is referenced in determining what parameters in which the soil and water samples will be analyzed, and the amount of duplicates/blanks required.

Quality Assurance/Quality Control/Waste Management

All drilling and sampling equipment advanced into the subsurface is cleaned between sampling locations. This consists of washing with a biodegradable Alconox solution and rinsing with potable water. Wash and rinse water are disposed of atop an isolated area of asphalt for evaporation or discharged into a local storm sewer.

Drill cuttings, field screened as being contaminated, are contained in 55-gallon DOT barrels, characterized, and properly disposed of by METCO and/or client.

Development and purge waters are contained in 55 gallon DOT barrels, characterized, and properly disposed of by METCO and/or the client. Disposal options will depend on the amount of water, type of contaminants, and concentration of contaminants. All wastewater contaminants and disposal activities are recorded with complete documentation submitted to the WDNR.

Variances

We are not aware of any variances needed at this time.

SCHEDULE FOR INVESTIGATION PROJECT

The following is a checklist of activities that have been, or will be completed, concerning the LUST Investigation, along with an estimated time frame. A typical LUST Investigation takes approximately 2 to 6 months. The investigation may take up to 12 months if bedrock or groundwater is contaminated.

1) METCO submits a LUST Investigation Project proposal to client (done).
2) Proposal acceptance by client. METCO notifies the WDNR that a consultant has been contracted (done).
3) Client obtains PECFA Packet and Site Eligibility Letter from PECFA (done).
4) METCO submits a LUST Investigation Field Procedures Workplan to client and WDNR for review and approval (10/2/12).
5) METCO conducts Geoprobe Project (2-4 weeks). More than one field mobilization may be needed to complete project depending on complexity of the site and project (1 month to receive lab results).
6) Depending on the results of the investigation, METCO prepares a brief summary report or final report and sends copies to client and WDNR (2 months after lab results are received).

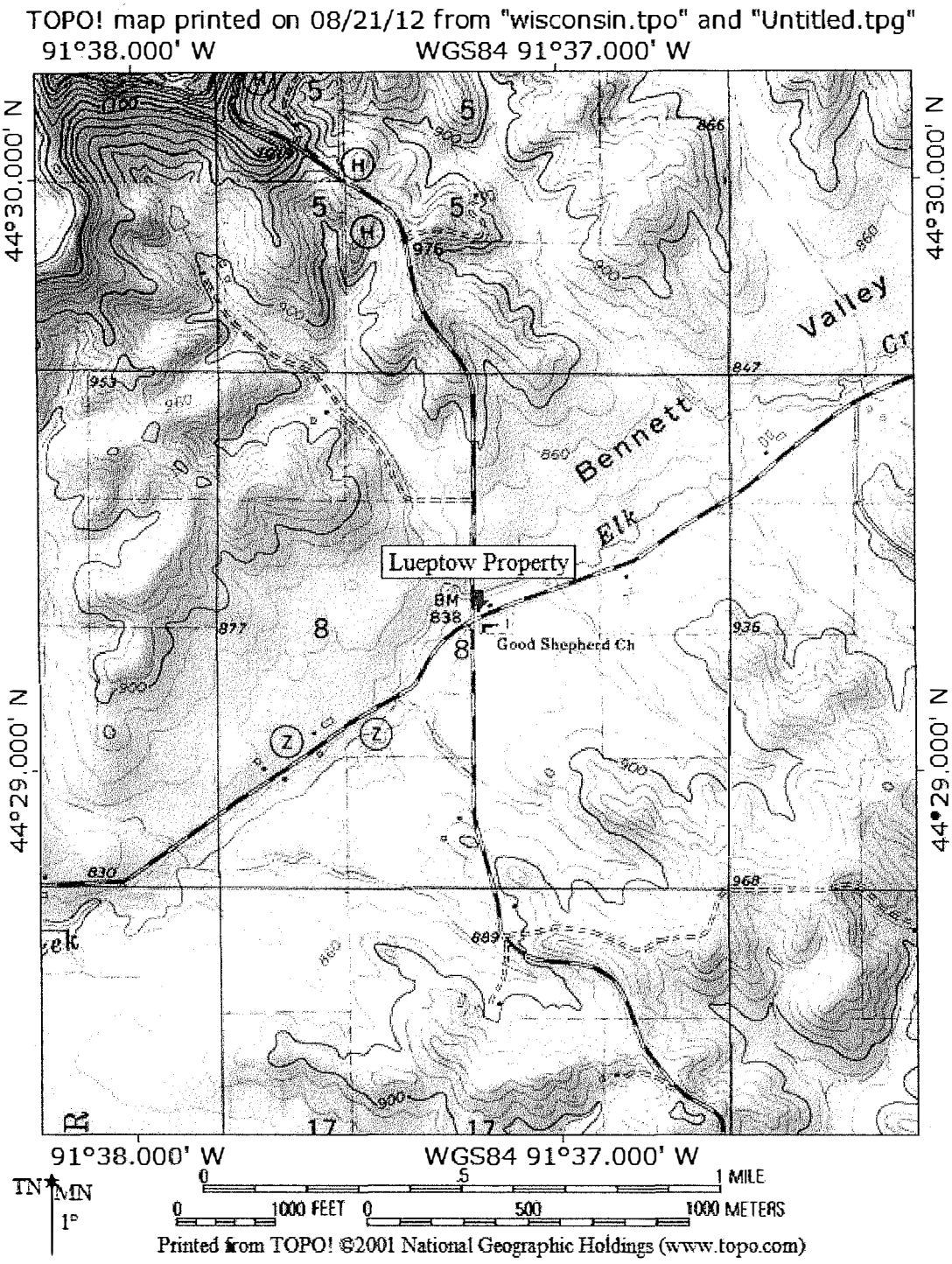
NOTE: If groundwater is found to be impacted or suspected of being impacted by released contaminants, the WDNR will require a Drilling Project with monitoring wells.

7) METCO conducts Drilling Project (2 months). More than one field mobilization may be needed to complete project depending on complexity of the site and project (1 month to receive lab results).
8) METCO develops/surveys the installed monitoring wells and collects. Round 1 groundwater samples for laboratory analysis (1 month to receive lab results).
9) METCO collects Round 2 groundwater samples for laboratory analysis (1

month to receive lab results).

10) METCO completes any additional work that is needed, such as slug tests (1 month).
11) METCO prepares a LUST Investigation report that contains all collected data and submits to the client and WDNR (3-6 months).
12) If no further investigation work is required, METCO will apply for "site closure" with the WDNR or WDSPS. Upon closure, METCO will complete the PECFA Application and submit for reimbursement (reimbursement takes 3 to 6 months).
13) If further investigation and/or remediation is required METCO will provide further assistance.

APPENDIX A/SITE MAPS



SITE LOCATION MAP – CONTOUR INTERVAL 20 FEET
LUEPTOW PROPERTY – MONDOVI, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

SITE L

LUEPTO

METCO
709 Gillette Stre
La Crosse, W
Tel: (608) 78
Fax: (608) 7
Excellence through experience™

NOTE: INFORMATIOI
DATA. ACTUAL C(

● = PROPOSED GE

APPENDIX B/INVESTIGATION CHECKLIST

SITE INVESTIGATION CHECKLIST
Revised February 1992 PUBL-SW-115

This checklist was prepared by the Department of Natural Resources. It lists the necessary information to include in a site investigation report, for investigations conducted in accordance with guidelines prepared by the Emergency and Remedial Response Section, of the Bureau of Solid and Hazardous Waste Management, Wisconsin DNR. Sites include those where actions are conducted under the LUST, Spills and Environmental Repair programs. If some of this information is not submitted the report should clearly state why it is omitted. More complete information regarding site investigations is available in the Department's "Guidance on Conducting Environmental Response Actions".

The purpose of the site investigation is to 1) define the extent and degree of contamination and 2) to provide a basis for choosing a remedial action alternative. The narrative portion of the investigation report should clearly address these goals.

The Department strongly recommends that the site investigation report follow the sequence of information listed here. This will allow for a quick completeness check and more timely review of submittals. Incomplete reports will not be reviewed until all the necessary information has been received. The following information should be included in the site investigation, (as appropriate to each case):

I. INTRODUCTION/COVER LETTER

___ 1. Project title
___ 2. Purpose of report and desired department action
___ 3. Client(s)
___ 4. Author(s), with signatures
___ 5. Scope of Services
___ 6. Dates the work was performed
___ 7. Date of report
___ 8. Subcontractors employed by the consultant

II. GENERAL and BACKGROUND INFORMATION

1. General Information

A. Identify the owner/operator and/or person(s) responsible: (include all applicable)
___ 1. name
___ 2. address
___ 3. day phone number
___ 4. contact person (name)
___ 5. address
___ 6. phone number
___ 7. verification of ownership: photocopy of deed or exact legal description of property

B. Specify the site of contamination:
___ 1. name
___ 2. phone number
___ 3. specific location (street corner, miles from an intersection, etc)
___ a. legal address (street address if applicable, do not supply just a P.O. Box #)
___ b. location of impacted properties by latitude and longitude, to an accuracy of seconds, at a minimum (preferred method) or State Plane coordinate system
___ c. location of impacted properties by quarter, quarter, section, township, range, civil township, county, or other locational criteria if site(s) are not within the Public Land Survey system
___ 4. type of operation: gas station, tank farm, private residence, manufacturer, etc.

C. Site Location Maps
1. General Location Map
___ locate on a USGS topographic base map (include quadrangle name, series and scale)
___ locate on a plat map, if applicable

2. Local Base Map: the map must be drawn to scale and include the following items. Other features may also be needed:
___ a. bar scale
___ b. North arrow
___ c. legend
___ d. location of benchmark used
___ e. origin of horizontal grid system

3. Including Site Specific Features: more than one map may be appropriate, use the local map for the base map (These maps may be used for several purposes.)

___ a. location of discharge on site or facility, for example, the location of (former) tank and pump islands and piping
___ b. location of all buildings on site
___ c. locations of public utilities, appropriately marked
___ d. property boundaries
___ e. location of all soil borings and wells (monitoring wells and potable wells)
___ f. location of soil vapor points
___ g. locations of where field screenings and lab confirmation samples were taken
___ h. nearby/neighboring structures and private wells (within 1200 feet)
___ i. any nearby surface waters (within map scale)
___ j. roads and paved areas, and other access areas
___ k. known and potential sources of contamination
___ l. known and potential receptors
___ m. limits of excavation

2. Site Background

A. General Site Information

1. site description, including features like:
___ - number of tanks/containers
___ - volume/size of tanks/containers
___ - tank/container contents, past and present
___ - tank/container age, installation dates
___ - tank/container construction materials
___ - presence and type of leak detection
___ - presence and type of secondary containment
___ 2. general site construction history
___ 3. any past reports of spills, or other incidents
___ 4. periods of nonoperation
___ 5. proximity of sensitive sites such as schools, homes, private or public wells, etc.

B. Description of Discharge Incident

___ 1. type of hazardous substances discharged, known or suspected (released, spilled, lost, etc.)
___ 2. approximate amounts discharged
___ 3. location of impact
___ 4. dates of discharge
___ 5. local problems associated with discharge, e.g. vapors in homes, well contamination, etc.
___ 6. known receptors

C. Impacts

___ 1. existing impacts to human health, safety, welfare and the environment
___ 2. any impacts to adjacent or nearby buildings, wells or other structures
___ 3. names and addresses of owners of adjacent properties, if those properties have been adversely impacted by the hazardous substance discharge

D. Past Activities, Monitoring and Testing

___ 1. dates of site activities, duration and type and potential amounts of discharges
___ 2. description of emergency actions taken and of interim actions taken, including dates
___ 3. record of activities conducted at the site which had potential to cause contamination
___ 4. inventory record system data
5. summary of monitoring results, including:
___ - product monitoring records according to ILHR 10
___ - groundwater monitoring
___ - surface water monitoring
___ - soil monitoring
___ - sediment monitoring
___ - atmospheric monitoring
___ 6. records of testing, repair, removal or replacement, including dates
7. tank/container/line integrity testing
___ method
___ testing firm
___ dates
___ results

E. Hazardous Waste Generation

___ 1. hazardous waste manifest
___ 2. was hazardous waste ever generated or stored on site?

F. Description of Tank/Container and Soil Removal Activities

___ 1. description of soil conditions in the area of the tank/container excavation or in area of discharge
___ 2. volume of (contaminated) soils removed from the excavation
___ 3. location of stockpiled contaminated soils
___ 4. type of impermeable base for stockpiled soils
___ 5. type of impermeable cover for stockpiled soils
___ 6. if excavation was backfilled, what was used as fill?
___ 7. final deposition of soil excavated, where and how were they used? (daily cover, backfill on/off site, roasted, buried, etc.)
___ 8. condition of tanks, lines, pumps (corrosion, visible leaks, etc?)
___ 9. product (other than petroleum) or waste delivery or storage systems

G. Land Use Information

___ 1. current and past land uses of site and neighboring properties
___ 2. description of zoning of property and adjacent properties

3. Environmental Analysis

A. Site Historical Significance

___ 1. impacts or potential impacts to significant historical or archeological features due to any response activities or the discharge itself
___ 2. presence of buildings greater than 50 years old on or next to discharge site

B. Presence of "Sensitive" Environmental Receptors

___ 1. wildlife habitat
___ 2. state or federal threatened or endangered species
___ 3. sensitive or unique ecosystems or species
___ 4. areas of special natural resource interest
___ 5. other surface waters and wetlands, as appropriate

C. Geology (use maps as appropriate)

___ 1. geologic origin, nature and distribution of bedrock
___ 2. geologic origin, nature and distribution of overlying soils
___ 3. thicknesses of various strata (consolidated and unconsolidated)
___ 4. depth to bedrock
___ 5. geophysical characteristics
___ 6. soil types and texture
7. soil descriptions to include:
___ - structure
___ - mottling
___ - voids
___ - layering
___ - lenses
___ - geologic origin
___ - Unified Soil System Classification
___ - grain size distribution, if applicable
___ - evidence of secondary permeability
___ - odor, if evident
___ - staining, if evident
___ 8. bedrock descriptions, if impacted:
___ - rock type
___ - grain size
___ - bedding thickness
___ - presence of fractures
___ - orientation of fractures
___ - sedimentary structures
___ - secondary porosity/solutional features
___ - other
___ 9. topography
___ 10. site hydrology, including
___ - intermittent and ephemeral streams,
___ - drain tile systems,
___ - surface waters
___ - wetlands
___ - location of floodway and floodplain (this may be best located on a site map)

D. Hydrogeology

___ 1. depth to water table
___ 2. flow directions, seasonal variations

___ 3. horizontal and vertical gradients
___ 4. hydraulic characteristics: (define as field test results or non-field estimates)
___ hydraulic conductivity, variation
___ transmissivity
___ storativity
___ 5. aquifer definition:
___ size
___ use
___ presence of aquitards
___ 6. local and regional recharge or discharge area(s)
___ 7. potentiometric surface
___ 8. location, seasonal variation of groundwater divides
___ 9. location and extent of perched groundwater
___ 10. local and regional groundwater quality
___ 11. hydraulic connection between aquifers
___ 12. saturated thickness of aquifer
___ 13. estimates of flow volume passing below the discharge site/facility (include calculations in the appendices)
___ 14. drillers logs which indicated any abnormal drilling difficulties
___ 15. isoconcentration maps
___ 16. other

III. RESULTS

1. Contaminant Migration Pathway and Receptor Assessment

A. Potential Vapor and Product Migration Pathways (include depth of burial and construction material)
___ 1. sewer lines
___ 2. storm sewers
___ 3. buried power cables
___ 4. buried telephone lines
___ 5. tile lines
___ 6. more permeable soil lenses
___ 7. water lines
___ 8. road beds
___ 9. foundations
___ 10. other

B. Potential Receptors of Contamination (description of impacts or potential impacts, if applicable)
___ 1. buildings on site
___ 2. neighboring basements/buildings
___ 3. nearby wells (locations must be provided on a map)
___ 4. nearby surface waters, including wetlands
___ 5. critical habitats
___ 6. endangered species
___ 7. outstanding resource waters
___ 8. exceptional resource waters
___ 9. sensitive or unique ecosystems
___ 10. other

C. Potential Health Impacts
___ 1. danger of explosion
___ 2. contaminated private wells
___ 3. contaminated public water supply wells
___ 4. exposure to vapors
___ 5. dermal exposure
___ 6. other

2. Sampling and Analysis Results (figures and tables should be used, but general trends and the overall evaluation should be in narrative form) Provide units of measurement for all results. Describe or provide the following information for each media impacted:

A. soil chemistry results, per parameter, per location
___ 1. field screening results with locations identified
___ 2. laboratory (confirmation) sample results with locations identified
___ 3. any indication of contamination of soils encountered (staining, odor, etc.)

B. groundwater sample results, per parameter, per well, over time
___ 1. laboratory results
___ 2. trends analysis

___ 3. compliance evaluation with NR 140 groundwater standards, if applicable

C. soil vapor results (define type of survey used)
___ 1. by parameter
___ 2. per location

D. sampling results from other media impacted by the discharge
___ 1. parameters
___ 2. locations

3. Sampling Methods Used (for each media impacted, lists provided for soil and groundwater only)

A. Soils:
___ 1. description of sample collection method
2. field screening or analytical instrument type used
___ lamp strength
___ calibration
___ operating procedure
___ 3. sample container
___ 4. temperature at which the sample was collected
___ 5. time allowed for PID or FID samples to achieve at least 70° F, and location

B. Groundwater
___ 1. method and instruments used to obtain sample
___ 2. any indication of contamination noticed in field
___ 3. whether the well was purged or not, why and how, and amount removed
___ 4. drilling method used
___ 5. monitoring well construction features
6. abandonment methods
___ a. boreholes
___ b. monitoring wells
___ c. excavations
___ 7. survey methods
___ 8. sample container size
___ 9. sample description
___ - turbid
___ - clear
___ - sheen
___ - free product
___ 10. other

C. Vapors/Ambient Air
___ 1. description of sample collection method
___ 2. field screening, if conducted
___ 3. sample container

4. Quality Control and Quality Assurance

A. General QA/QC (for all media impacted)
___ 1. name and address of laboratory
___ 2. laboratory certification number
3. number of blanks, with results:
___ - field blanks
___ - trip blanks
___ - lab spikes
___ - split samples
___ - replicate spikes
___ 4. name and training of person collecting the samples (including certification, if applicable)

B. Field Instrument Quality Control (for all media impacted)
___ 1. instrument make, model and lamp energy
2. limitations of field screening instruments
___ - temperature changes
___ - humidity changes
___ - other
___ 3. any repairs to the instrument
___ 4. field instrument calibration measures conducted
___ 5. time and frequency or schedule of field instrument calibration
___ 6. composition of the calibration gas used (calibration product ?)
___ 7. calibration curves used
___ 8. correction factor if one was used

___ 9. results of any calibration checks
___ 10. time of day and ambient temperature when calibrations, calibration curves or calibration checks were completed
___ 11. time and temperature that samples were equilibrated if the outside temperature is below 60°F at the time of field analysis

C. Field Sampling and Transportation Quality Control and Assurance (for all media impacted)
___ 1. sample type
___ 2. sample location and associated field and laboratory identification
___ 3. sampling technique used
___ 4. sampling techniques used to minimize exposure of samples to the atmosphere
___ 5. date and time of sampling
___ 6. field preservation performed
___ 7. date and time of preservation or extraction
___ 8. decontamination procedures used during the site investigation
___ 9. deviations from standard operating procedures
___ 10. shipping time and technique

D. Laboratory Receipt and Analysis (for all media impacted)
___ 1. chain of custody forms (4400-151)
___ 2. time and date of receipt of samples by the laboratory
___ 3. sample condition on receipt by the laboratory including
- the temperature of the samples and
- whether the samples were properly sealed
___ 4. time and date of analysis
___ 5. method of analysis
___ 6. laboratory detection limit
___ 7. sample results with units of measurement
___ 8. accuracy and precision of replicate spikes
___ 9. results or percent recovery of matrix spikes with every batch of samples not to exceed eight hours

5. Investigative Wastes (for all media impacted, to include but which is not limited to contaminated water from excavations, borings, purge water, rinse waters from decontamination procedures, extra sample)

___ A. analytical results (hazardous determination, if listed?)
___ B. ultimate disposal
___ C. other

IV. SUMMARY AND EVALUATION OF RESULTS (Analysis of Degree and Extent of Contamination)

___ 1. degree and extent of soil contamination
___ 2. degree and extent of groundwater contamination
___ 3. degree and extent of contamination of other media impacted
___ 4. known or potential impacts to receptors, such as water supply wells
___ 4. vapor migration potential
___ 5. impacts from seepage into basements, utility lines, surface waters
___ 6. difficulties experienced during the investigation
___ 7. unanticipated or questionable results
___ 8. details needing emphasis

V. CONCLUSIONS

___ source and type of release defined
___ soil and groundwater contamination adequately defined?
___ further study needed
___ further remediation needed
___ known or potential impacts from the release defined?
___ clean site, ready for case closure
___ other

VI. RECOMMENDATIONS

1. Investigation Incomplete
___ continued monitoring
___ additional investigation

2. Remedial Action Alternatives (provide description of alternatives) e.g.:
___ remediation method (to be) used for contaminated soil

___ soil removal, treatment and disposal
___ soil venting
___ product recovery
___ groundwater extraction and treatment
___ insitu biological treatment
___ other actions (define)

3. Other
___ work plans for further action
___ construction proposals for further action
___ pilot study, other treatability studies
___ schedules for further actions
___ required permits
___ air quality
___ wastewater discharge

VII. FIGURES

1. Site Maps
___ - location maps (regional and local)
___ - water table and/or potentiometric surface maps
___ - isoconcentration maps
___ - surface water depth maps
___ - bedrock and soil type and distribution maps
___ 2. Flow Cross Sections
___ 3. Extent of Contamination in Soil
___ 4. Extent of Contamination in Groundwater (Isoconcentration)
___ 5. Locations of Potential Receptors
___ 6. Geologic Cross-Sections
___ a. geologic setting
___ b. boring location
___ c. soil classification
___ d. analytical sampling
___ e. monitoring well locations
___ f. water table
___ g. extent of contaminant plume
___ h. concentrations at referenced date and point
___ i. sampling intervals (for soil and groundwater)
___ j. of excavation walls showing location of field screening and/or analytical results, as appropriate
___ 7. Photographs (NO black and white photocopies)

VIII. TABLES

___ 1. Groundwater Chemistry Results
___ 2. Soil Chemistry Results
___ 3. Analytical Methods Used
___ 4. Standards for Comparison and Compliance Determinations (Tables with compliance standards should be combined with analytical results for comparison)
___ 5. Geologic and Hydrogeologic Results
___ 6. Groundwater Elevations
___ 7. Screening Results
___ 8. Other

IX. APPENDICES (up to the author)

___ 1. Table giving data for compounds found, such as:
Chemical formula, Molecular weight, Ionic potential, Solubility,
Vapor pressure, Henry's Law Constant, Kow
___ 2. References used to support methods or provide standards methods, including previous reports
___ 3. All raw data
4. All documentation on forms: (DNR form number)
___ a. soil boring logs (4400-122)
___ b. monitoring well construction logs (4400-113A)
___ c. soil boring/well abandonment forms (3300-5B)
___ d. chain of custody forms
___ e. lab/chemistry results
___ f. groundwater monitoring well information form (4400-89)
___ g. monitoring well development form (4400-113B)
___ 5. Variances (for well construction, hazardous waste storage requirements, etc.)

___ 6. Well logs of all impacted wells and potentially impacted wells within 1200' of the discharge site (locate wells on a map)
___ 7. All calculations and assumptions
___ 8. Landfill receipts for disposed soil
___ 9. Regional hydrogeological information references used

Other information that may be needed includes:
- access
- public information plan
- health and safety plan

APPENDIX C/LUST SAMPLING GUIDELINES

Petroleum Substance Discharged	Analysis of Samples Collected for UST Tank Closure Assessments	Solid Waste Program Requirements for Soils to be landfilled[5]	Site Investigation, Pretreatment and Posttreatment Sample Analysis[11]
Regular Gasoline	GRO[2]	Free Liquids[6] GRO Benzene[7] Pb[7] Haz. Waste Deter.[8]	GRO VOC/PVOC[15] Pb[12]
Unleaded Gasoline; Grades 80 100, and 100 LL (Low Lead) Aviation Fuel	GRO[2]	Free Liquids[6] GRO Benzene[7] Pb[7] Haz. Waste Deter.[8]	GRO PVOC
Diesel; Jet Fuels; and No's 1, 2, and 4 Fuel Oil	DRO[3]	Free Liquids[6] DRO Benzene[7] Haz. Waste Deter.[8]	DRO[3] PVOC PAH[13 14]
Crude Oil; Lubricating Oils; No. 6 Fuel Oil	DRO[3]	Free Liquids[6] DRO Haz. Waste Deter.[8]	DRO[3] PAH[13 14]
Unknown Petroleum	GRO[7] and DRO[3 4]	Free Liquids[6] GRO and DRO Pb, Cd[7] Haz. Waste Deter.[8] CN[19] S[2 10]	GRO and DRO[3 4] VOC/PVOC[15] PAH[13 14] Pb, Cd[12]
Waste Oil	DRO[3]	Free Liquids[6] DRO Pb, Cd[7] Haz. Waste Deter.[8] CN[19] S[2 10]	DRO[3] VOC/PVOC[15] PAH[13 14] PCBs[16] Pb, Cd[12]

Abbreviations:

GRO - Gasoline Range Organics, Determined by the Wisconsin Modified GRO Method

DRO - Diesel Range Organics, Determined by the Wisconsin Modified DRO Method

VOC - Volatile Organic Compounds (See Section 11.1 for a list of VOC compounds)

PVOC - Petroleum Organic Compounds (See Section 11.2 for a list of PVOC compounds)

PAH - Polynuclear Aromatic Hydrocarbons (See Section 11.3 for a list of the PAH compounds)

PCBs - Polychlorinated Biphenyls

Pb - Lead

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

TABLE 1
SAMPLE & PRESERVATION REQUIREMENTS FOR WATER and DRINKING WATER SAMPLES

Test	Original Sample Container	Preserved	Holding Time to Analysis
WET CHEMISTRY			
Alkalinity SM2320B/EPA 310.2	250 mL HDPE	4°C	14 days
Ammonia EPA 350.1	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
BOD, cBOD SM5210B	500 ml HDPE	4°C	48 hrs.
COD EPA 410.4	500 ml HDPE	4°C, pH<2 with H_2SO_4	28 days
Chloride EPA 300.0/EPA 325.2	250 mL HDPE	4°C	28 days
Cyanide SW846 9012A/SM4500-CN-C	1000 mL HDPE	4°C, pH>12 with NaOH	14 days
Flashpoint SW846 1010	250 mL HDPE	4°C	28 days
Fluoride EPA 300.0	250 mL HDPE	4°C	28 days
Hardness SW846 6010B	250 mL HDPE	4°C, pH<2 with HNO_3	180 days
TKN EPA 351.2	1 Liter HDPE	4°C, pH<2 with H_2SO_4	28 days
Nitrate EPA 300.0	250 mL HDPE	4°C	48 hours
Nitrate+Nitrite EPA 300.0	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
Nitrite EPA 300.0	250 mL HDPE	4°C	48 hours
Oil & Grease EPA 1664	1 Liter Glass	4°C, pH<2 with H_2SO_4	28 days
Organic Carbon SW846 9060/ EPA 415.1	40 ml Glass	4°C, pH<2 with H_2SO_4 or HCL	28 days
Phenol, Total EPA 420.1	1 Liter Glass	4°C, pH<2 with H_2SO_4	28 days
Phosphorus, Total EPA 365.3	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
Sulfate EPA 300.0	250 mL HDPE	4°C	28 days
Total Dissolved Solids EPA 160.1	250 ml HDPE	4°C	7 days
Total Solids EPA 160.3	250 ml HDPE	4°C	7 days
Total Suspended Solids EPA 160.2	250 mL HDPE	4°C	7 days
METALS			
Metals	250 mL HDPE	4°C, pH<2 with HNO_3	6 months
Mercury SW8467470/EPA 245.1	250 mL HDPE	4°C, pH<2 with HNO_3	28 days
ORGANICS			
Semivolatiles SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted .	4°C	7 days extr. 40 days following extr
PAH SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted	4°C	7 days extr. 40 days following extr
PCB SW846 8082	1 Liter amber glass, collect 2 for one of the samples submitted.	4°C	7 days extr. 40 days following extr
DRO, Modified DNR Sep 95	1 Liter amber glass with Teflon lined cap	4°C, 5 mL 50% HCl	7 days extr. 40 days following extr
VOC'S SW846 8260B/EPA524.2	(3) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl, No Headspace	14 days
GRO/VOC	(4) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO, Modified DNR Sep 95	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO/PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days

All samples are to be cooled to 4°C until tested.
HDPE = High Density Polyethylene.

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

TABLE 2
SAMPLE & PRESERVATION REQUIREMENTS FOR SOIL SAMPLES

Test	Original Sample Container	Preserved	Holding Times from Date and Time of Collection			
			Solvent Addition	Shipping	Extraction	Analysis
METALS						
Metals	2 oz glass or soil cup	4°C	NA	NA	NA	180 days
Mercury SW846 7471	2 oz glass or soil cup	4°C	NA	NA	NA	28 days
Chromium Hexavalent SM3500-Cr	2 oz glass or soil cup	4°C	NA	NA	NA	24 hours
ORGANICS						
Any combinations of GRO, VOC, PVOC	1- tared VOC vial with 10 mls methanol, 13 grams of soil collected with syringe	4°C, 1:1 with methanol	Immediately	4 days	21 days	21 days
DRO, Modified	1- tared VOC vial, 13 grams of soil collected with syringe jar	4°C, Hexane	10 days	4 days	47 days	47 days
PAH, SW846 8270C	2 oz glass untared	4°C	NA	NA	14 days	40 days
Semivolatile SW846 8270C	2 oz glass untared	4°C	NA	NA	14 days	40 days
PCB SW846 8082	2 oz glass untared	4°C	NA	NA	14 days	40 days

All samples are to be cooled to 4°C until tested.

APPENDIX D/WDNR DOCUMENTS

HAZARDOUS SUBSTANCE/WASTE RELEASES:

INTERIM SOIL CLEANUP GUIDELINES--PETROLEUM CONTAMINATION

			DNR Closeout Action	
BTEX (1)	GRO/DRO	Soil Type (2)	Soils Accessible	Soils Inaccessible or accessible and not technically and economically feasible
<= NR 720	<= 100 ppm	Permeable (K>10 E-6 cm/s)	Close	Close
<= NR 720	<= 250 ppm	Less Permeable (K<=10 E-6 cm/s)	Close	Close
<= NR 720 or > NR 720	> applic. GRO/DRO		Require additional work	Close with consideration of deed instrument according to guidelines

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(1) BTEX: proposed criteria developed in preparation of NR 720:

Benzene	5.5 ug/kg
Toluene	1500 ug/kg
Ethylbenzene	2900 ug/kg
Xylenes	4100 ug/kg
1,2-DCA	4.9 ug/kg

(2) K: Saturated hydraulic conductivity

(b) No soil contamination is present at the site that exceeds any of the soil screening levels in Table 1.

Table 1
Indicators of Residual Petroleum Product in Soil Pores

	Soil Screening Levels (mg/kg)
Benzene	8.5
1,2-DCA	0.6
Ethylbenzene	4.6
Toluene	38
Xylene	42
1,2,4 – Trimethylbenzene	83
1,3,5 – Trimethylbenzene	11
Naphthalene	2.7

(c) There is no soil contamination within 4 feet of the ground surface that exceeds any of the direct contact soil contaminant concentrations for the substances listed in Table 2.

Table 2
Protection of Human Health from Direct Contact with Contaminated Soil

Substance	Soil Contaminant Concentrations (Top 4 ft of the soil) (mg/kg)
Benzene	1.10
1,2-Dichloroethane (DCA)	0.54

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(22) "Wastewater and sludge storage or treatment lagoon" means a natural or man−made containment structure, constructed primarily of earthen materials for the treatment or storage of wastewater or sludge, which is not a land disposal system.

History: Cr. Register, September, 1985, No. 357, eff. 10−1−85; cr. (1m), am. (7), (17) and (18), Register, October, 1988, No. 394, eff. 11−1−88; am. (6), cr. (20h) and (20m), Register, March, 1994, No. 459, eff. 4−1−94; cr. (1s), (10e), (10s), (20k), r. and recr. (12), (13), Register, August, 1995, No. 476, eff. 9−1−95; cr. (14m), Register, October, 1996, No. 490, eff. 11−1−96; am. (20), Register, December, 1998, No. 516, eff. 1−1−99; correction in (9) made under s. 13.93 (2m) (b) 7., Stats., Register, April, 2001, No. 544; CR 02−134: cr. (1u), (1w), (1y) and (20s) Register June 2003 No. 570, eff. 7−1−03.

Subchapter II — Groundwater Quality Standards

NR 140.10 Public health related groundwater standards. The groundwater quality standards for substances of public health concern are listed in Table 1.

Note: For all substances that have carcinogenic, mutagenic or teratogenic properties or interactive effects, the preventive action limit is 10% of the enforcement standard. The preventive action limit is 20% of the enforcement standard for all other substances that are of public health concern. Enforcement standards and preventive action limits for additional substances will be added to Table I as recommendations are developed pursuant to ss. 160.07, 160.13 and 160.15, Stats.

Table 1
Public Health Groundwater Quality Standards

Substance[1]	Enforcement Standard (micrograms per liter − except as noted)	Preventive Action Limit (micrograms per liter − except as noted)
Acetochlor	7	0.7
Acetochlor ethane sulfonic acid + oxanilic acid (Acetochlor − ESA + OXA)	230	46
Acetone	9 mg/l	1.8 mg/l
Alachlor	2	0.2
Alachlor ethane sulfonic acid (Alachlor − ESA)	20	4
Aldicarb	10	2
Aluminum	200	40
Ammonia (as N)	9.7 mg/l	0.97 mg/l
Antimony	6	1.2
Anthracene	3000	600
Arsenic	10	1
Asbestos	7 million fibers per liter (MFL)	0.7 MFL
Atrazine, total chlorinated residues	3[2]	0.3[2]
Bacteria, Total Coliform	0[3]	0[3]
Barium	2 milligrams/liter (mg/l)	0.4 mg/l
Bentazon	300	60
Benzene	5	0.5
Benzo(b)fluoranthene	0.2	0.02
Benzo(a)pyrene	0.2	0.02
Beryllium	4	0.4
Boron	1000	200
Bromodichloromethane	0.6	0.06
Bromoform	4.4	0.44
Bromomethane	10	1
Butylate	400	80
Cadmium	5	0.5
Carbaryl	40	4
Carbofuran	40	8
Carbon disulfide	1000	200
Carbon tetrachloride	5	0.5
Chloramben	150	30
Chlordane	2	0.2
Chlorodifluoromethane	7 mg/l	0.7 mg/l
Chloroethane	400	80
Chloroform	6	0.6
Chlorpyrifos	2	0.4
Chloromethane	30	3
Chromium (total)	100	10
Chrysene	0.2	0.02

Unofficial Text (See Printed Volume). Current through date and Register shown on Title Page.

Table 1 – Continued
Public Health Groundwater Quality Standards

Substance[1]	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Cobalt	40	8
Copper	1300	130
Cyanazine	1	0.1
Cyanide, free[4]	200	40
Dacthal	70	14
1,2–Dibromoethane (EDB)	0.05	0.005
Dibromochloromethane	60	6
1,2–Dibromo–3–chloropropane (DBCP)	0.2	0.02
Dibutyl phthalate	1000	100
Dicamba	300	60
1,2–Dichlorobenzene	600	60
1,3–Dichlorobenzene	600	120
1,4–Dichlorobenzene	75	15
Dichlorodifluoromethane	1000	200
1,1–Dichloroethane	850	85
1,2–Dichloroethane	5	0.5
1,1–Dichloroethylene	7	0.7
1,2–Dichloroethylene (cis)	70	7
1,2–Dichloroethylene (trans)	100	20
2,4–Dichlorophenoxyacetic Acid (2,4–D)	70	7
1,2–Dichloropropane	5	0.5
1,3–Dichloropropene (cis/trans)	0.4	0.04
Di (2–ethylhexyl) phthalate	6	0.6
Dimethenamid/Dimethenamid–P	50	5
Dimethoate	2	0.4
2,4–Dinitrotoluene	0.05	0.005
2,6–Dinitrotoluene	0.05	0.005
Dinitrotoluene, Total Residues[5]	0.05	0.005
Dinoseb	7	1.4
1,4–Dioxane	3	0.3
Dioxin (2, 3, 7, 8–TCDD)	0.00003	0.000003
Endrin	2	0.4
EPTC	250	50
Ethylbenzene	700	140
Ethyl ether	1000	100
Ethylene glycol	14 mg/l	2.8 mg/l
Fluoranthene	400	80
Fluorene	400	80
Fluoride	4 mg/l	0.8 mg/l
Fluorotrichloromethane	3490	698
Formaldehyde	1000	100
Heptachlor	0.4	0.04
Heptachlor epoxide	0.2	0.02
Hexachlorobenzene	1	0.1
N–Hexane	600	120
Hydrogen sulfide	30	6
Lead	15	1.5
Lindane	0.2	0.02
Manganese	300	60
Mercury	2	0.2

Unofficial Text (See Printed Volume). Current through date and Register shown on Title Page.

Table 1 – Continued
Public Health Groundwater Quality Standards

Substance[1]	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Methanol	5000	1000
Methoxychlor	40	4
Methylene chloride	5	0.5
Methyl ethyl ketone (MEK)	4 mg/l	0.8 mg/l
Methyl isobutyl ketone (MIBK)	500	50
Methyl tert–butyl ether (MTBE)	60	12
Metolachlor/s–Metolachlor	100	10
Metolachlor ethane sulfonic acid + oxanilic acid (Metolachlor – ESA + OXA)	1.3 mg/l	0.26 mg/l
Metribuzin	70	14
Molybdenum	40	8
Monochlorobenzene	100	20
Naphthalene	100	10
Nickel	100	20
Nitrate (as N)	10 mg/l	2 mg/l
Nitrate + Nitrite (as N)	10 mg/l	2 mg/l
Nitrite (as N)	1 mg/l	0.2 mg/l
N–Nitrosodiphenylamine	7	0.7
Pentachlorophenol (PCP)	1	0.1
Perchlorate	1	0.1
Phenol	2 mg/l	0.4 mg/l
Picloram	500	100
Polychlorinated biphenyls (PCBs)	0.03	0.003
Prometon	100	20
Propazine	10	2
Pyrene	250	50
Pyridine	10	2
Selenium	50	10
Silver	50	10
Simazine	4	0.4
Styrene	100	10
Tertiary Butyl Alcohol (TBA)	12	1.2
1,1,1,2–Tetrachloroethane	70	7
1,1,2,2–Tetrachloroethane	0.2	0.02
Tetrachloroethylene	5	0.5
Tetrahydrofuran	50	10
Thallium	2	0.4
Toluene	800	160
Toxaphene	3	0.3
1,2,4–Trichlorobenzene	70	14
1,1,1–Trichloroethane	200	40
1,1,2–Trichloroethane	5	0.5
Trichloroethylene (TCE)	5	0.5
2,4,5–Trichlorophenoxy–propionic acid (2,4,5–TP)	50	5
1,2,3–Trichloropropane	60	12
Trifluralin	7.5	0.75
Trimethylbenzenes (1,2,4– and 1,3,5– combined)	480	96
Vanadium	30	6

Unofficial Text (See Printed Volume). Current through date and Register shown on Title Page.

Table 1 – Continued
Public Health Groundwater Quality Standards

Substance[1]	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Vinyl chloride	0.2	0.02
Xylene[6]	2 mg/l	0.4 mg/l

[1] Appendix I contains Chemical Abstract Service (CAS) registry numbers, common synonyms and trade names for most substances listed in Table 1.

[2] Total chlorinated atrazine residues includes parent compound and the following metabolites of health concern: 2–chloro–4–amino–6–isopropylamino–s–triazine (formerly deethylatrazine), 2–chloro–4–amino–6–ethylamino–s–triazine (formerly deisopropylatrazine) and 2–chloro–4,6–diamino–s–triazine (formerly diaminoatrazine).

[3] Total coliform bacteria may not be present in any 100 ml sample using either the membrane filter (MF) technique, the presence–absence (P–A) coliform test, the minimal medium ONPG–MUG (MMO–MUG) test or not present in any 10 ml portion of the 10–tube multiple tube fermentation (MTF) technique.

[4] "Cyanide, free" refers to the simple cyanides (HCN, CN^-) and /or readily dissociable metal–cyanide complexes. Free cyanide is regulatorily equivalent to cyanide quantified by approved analytical methods for "amenable cyanide" or "available cyanide".

[5] Dinitrotoluene, Total Residues includes the dinitrotoluene (DNT) isomers: 2,3–DNT, 2,4–DNT, 2,5–DNT, 2,6–DNT, 3,4–DNT and 3,5–DNT.

[6] Xylene includes meta–, ortho–, and para–xylene combined.

History: Cr. Register, September, 1985, No. 357, eff. 10–1–85; am. table 1, Register, October, 1988, No. 394, eff. 11–1–88; am. table 1, Register, September, 1990, No. 417, eff. 10–1–90; am. Register, January, 1992, No. 433, eff. 2–1–92; am. Table 1, Register, March, 1994, No. 459, eff. 4–1–94; am. Table 1, Register, August, 1995, No. 476, eff. 9–1–95; am. Table 1, Register, December, 1998, No. 516, eff. 1–1–99; am. Table 1, boron, Register, December, 1998, No. 516, eff. 12–31–99; am. Table 1, Register, March, 2000, No. 531, eff. 4–1–00; CR 03–063: am Table 1, Register February 2004 No. 578, eff. 3–1–04; CR 02–095: am. Table 1, Register November 2006 No. 611, eff. 12–1–06; reprinted to correct errors in Table 1, Register January 2007 No. 613; CR 07–034: am. Table 1 Register January 2008 No. 625, eff. 2–1–08; **CR 09–102: am. Table 1 Register December 2010 No. 660, eff. 1–1–11.**

NR 140.12 Public welfare related groundwater standards. The groundwater quality standards for substances of public welfare concern are listed in Table 2.

Note: For each substance of public welfare concern, the preventive action limit is 50% of the established enforcement standard.

Table 2
Public Welfare Groundwater Quality Standards

Substance	Enforcement Standard (milligrams per liter – except as noted)	Preventive Action Limit (milligrams per liter – except as noted)
Chloride	250	125
Color	15 color units	7.5 color units
Foaming agents MBAS (Methylene–Blue Active Substances)	0.5	0.25
Iron	0.3	0.15
Manganese	0.05	0.025
Odor	3 (Threshold Odor No.)	1.5 (Threshold Odor No.)
Sulfate	250	125
Zinc	5	2.5

History: Cr. Register, September, 1985, No. 357, eff. 10–1–85; am. table 2, Register, October, 1990, No. 418, eff. 11–1–90; am. Table 2, Register, March, 1994, No. 459, eff. 4–1–94.

NR 140.14 Statistical procedures. (1) If a preventive action limit or an enforcement standard for a substance listed in Table 1 or 2, an alternative concentration limit issued in accordance with s. NR 140.28 or a preventive action limit for an indicator parameter established according to s. NR 140.20 (2) is attained or exceeded at a point of standards application:

(a) The owner or operator of the facility, practice or activity at which a standard is attained or exceeded shall notify the appropriate regulatory agency that a standard has been attained or exceeded; and

(b) The regulatory agency shall require a response in accordance with the rules promulgated under s. 160.21, Stats. No response shall be required if it is demonstrated to the satisfaction of the appropriate regulatory agency that a scientifically valid determination cannot be made that the preventive action limit or enforcement standard for a substance in Table 1 or 2 has been attained or exceeded based on consideration of sampling procedures or laboratory precision and accuracy, at a significance level of 0.05.

(2) The regulatory agency shall use one or more valid statistical procedures to determine if a change in the concentration of a substance has occurred. A significance level of 0.05 shall be used for all tests.

(3) In addition to sub. (2), the following applies when a preventive action limit or enforcement standard is equal to or less than the limit of quantitation:

(a) If a substance is not detected in a sample, the regulatory agency may not consider the preventive action limit or enforcement standard to have been attained or exceeded.

(b) If the preventive action limit or enforcement standard is less than the limit of detection, and the concentration of a substance is reported between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or enforcement standard to be attained or exceeded only if:

1. The substance has been analytically confirmed to be present in the same sample using an equivalently sensitive analytical method or the same analytical method, and

2. The substance has been statistically confirmed to be present above the preventive action limit or enforcement standard, determined by an appropriate statistical test with sufficient samples at a significance level of 0.05.

(c) If the preventive action limit or enforcement standard is between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or

APPENDIX E/PROJECT DOCUMENTS

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

910 Highway 54 East
Black River Falls, Wisconsin 54615-9204

May 15, 1991

File Ref: 4440

Robert and Connie Lueptow
W448 CTH Z
Mondovi, WI 54755

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RE: Soil Contamination at the *Lueptow Property, Mondovi, Buffalo County*

Dear Mr. and Mrs. Lueptow:

The Department of Natural Resources has been notified by the Mondovi Fire Department that petroleum contamination was discovered during a tank removal at the above facility. The purpose of this letter is to inform you of your legal responsibilities to address this situation.

Wisconsin Statute 144.76(3) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state."

Releases from underground storage tanks are also regulated by federal law. The Environmental Protection Agency (EPA) administers the federal law and has authority to take enforcement actions against parties not cooperating with the state.

Because a hazardous substance has been released to the environment, you are responsible for conducting an investigation to determine the extent of contamination and potential for groundwater impact. Remedial actions must be taken to clean up contaminated soils and groundwater, if applicable. An immediate concern is the need to identify any risks of explosive or toxic vapors and/or water well contamination.

Generally, the sooner a release is discovered and responded to, the smaller the damaging impacts and the cost of remediation are. Please be sure that all products, soils, wastewater or sludges are disposed of or treated in an approved manner.

The department requests that within 15 days of receiving this letter that you notify this office in writing whether you have hired an experienced environmental consultant to conduct a remedial investigation to assess the environmental impact. Please provide the following information:

1) Verification that you have hired a consultant
2) The name of the consultant
3) The date that the remedial investigation is to begin

The department requires that you have a qualified environmental engineer or hydrogeologist direct the remedial investigation. Your consultant may contact this office to obtain our guidelines for conducting a remedial investigation. Enclosed is a list of environmental consultants and engineers qualified to perform the necessary work.

Two copies of the reports containing complete documentation of the investigation and clean up shall be sent to this office when completed. The department is experiencing a backlog of leaking underground storage tank cases of emergency status and your case will be reviewed as time permits. You are reminded, however, that you have a legal obligation to take the steps necessary to clean up the discharge in a timely manner.

You are encouraged to contact the Department of Industry, Labor, and Human Relations (DILHR), the state agency that administers the Petroleum Environmental Cleanup Fund (PECFA). This fund will reimburse you for eligible costs associated with the remedial investigation and cleanup. DILHR should be contacted at (608) 267-4545 to obtain current information regarding the PECFA program. A summary of the PECFA program is enclosed.

Your cooperation in this matter will be appreciated. Please be aware that your ability to use PECFA funds is dependent on your cooperation in adequately addressing this problem.

If you contest that a release of a hazardous substance has occurred, you are required by state and federal law to conduct a tank closure assessment that follows all DILHR requirements. The purpose of a Tank closure assessment is to determine if there has been a release to the environment.

If you have any questions regarding this letter, please feel free to contact me at (715) 284-1428.

Sincerely,

RB

Timothy R. Baker
Area Hydrogeologist

Enclosures

c: Bill Evans - WD
John Paddock - WD
Terry Bauer - DILHR, 2715 Post Road, Stevens Point, WI 54481

→ File

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

910 Highway 54 East
Black River Falls, WI 54615
TELEPHONE 715-284-1400
TELEFAX 715-248-1737

Carroll D. Besadny
Secretary

July 11, 1991

File Code: 4440

Robert & Connie Lueptow
W448 CTH Z
Mondovi, WI 54755

RE: Petroleum Contamination Cleanup At *Lueptow Property, Mondovi, Buffalo County*.

Dear Mr. and Mrs. Lueptow:

During a recent review of your file, I noted that no work has been done since 05/28/91, when you were going to check with Bill Morresy, and call me back. Please bring me up to date on the status of your cleanup project. I request a brief written description of the current project status by 08/16/91.

If work has been done since we spoke, please submit a report documenting all work.

If you feel you have completed the cleanup at this site, please submit a final report and request a review of your file. Please be aware that the Department of Natural Resources (the department) has a significant backlog of cases similar to yours. Your case will be reviewed as time permits.

If work has been temporarily discontinued or if you are planning further investigative work, please provide me with a written statement of the current status of your case.

Please be advised that under the Spills Law (Wisconsin Statute 144.76), you have a legal responsibility to clean up all contamination. Although the department cannot review your case at every stage in the project, you are still required to take the steps necessary to restore the environment to the extent practicable. Please ask your environmental consultant for guidance on meeting Wisconsin's cleanup standards.

If you feel that you are currently eligible for a PECFA payment, please apply to the Department of Industry, Labor and Human Relations. FORM 4 in the PECFA application packet should be sent to me for my review and signature. Please be advised that failure to address this problem in an appropriate and timely manner will jeopardize your eligibility for PECFA reimbursement.

In any case, please provide me with written notice of your case status by 08/16/91. You may contact me at (715)284-1428. Thank you for working to clean up Wisconsin's soils and groundwater.

Sincerely,

Timothy R. Baker
Area Hydrogeologist

c: Dave Lundberg - WD
Bill Evans - WD
file

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

August 22, 1991 4190

Robert and Connie Lueptow
W448 CTH Z
Mondovi, WI 54755

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RE: NOTICE OF VIOLATION

Petroleum Contamination at Lueptow property located in Mondovi, Wisconsin, Buffalo County

Dear Mr. and Mrs. Lueptow:

The Department of Natural Resources has been notified that petroleum contamination was discovered during a tank removal at the above site. Because you are the legal property owners, you have a legal responsibility to address this problem.

S. 144.76(3), Wisconsin Statutes states that a person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Releases from underground storage tanks are also regulated by federal law. The Environmental Protection Agency (EPA) administers the federal law and has the authority to take enforcement actions against the parties who are not cooperating with the state.

Because a hazardous substance may have been released to the environment, you are responsible for conducting a remedial investigation to determine the extent of contamination and potential for groundwater impact. Remedial actions must be taken to clean up contaminated soils and groundwater, if applicable. An immediate concern is to identify any risks of explosive or toxic vapors and/or water well contamination.

The Department requests that within seven days of receiving this letter, you notify this office, in writing, with the name of the qualified environmental consultant which you have retained to conduct a remedial investigation on this property.

FILE NOTE

Facility/Company Name	Location (Address or ¼¼)	City, State, Zip Code
Lueptow Property	CTH H 6-7 mi. S. of	Mondovi, WI

Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST.	WD	Buffalo	☒ Telephone ☐ In-Person	5/15/91 (M M D D Y Y)	1315

Facility Representative Contacted	Title or Position of Representative	Telephone Number (include area code)
Bill Evans	DNR	( )

Bill received a report from Mondovi F.D. rep. Dennis Brian that 2 tanks (~ 500 & 250 gal) were removed by the owners from a former grocery store S. of Mondovi. The tanks had holes and had been out of service for a long time. The tanks are on the DILHR Registery.

The property is owned by Robert & Connie Lueptow. The Lueptow's home phone is (715) 926-3550, Connies work phone is (715) 926-4962. Dennis Brian's work # is (715) 926-3185

Check if additional sheets attached ☐

By RB

FILE NOTE

Facility/Company Name	Location (Address or ¼ ¼)	City, State, Zip Code
Lueptow Property	CTH H, 6-7 mi South of	Mondovi

Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST.	WD	Buffalo	☒ Telephone ☐ In-Person	5/15/90 (M M D D Y Y)	13 30

Facility Representative Contacted	Title or Position of Representative	Telephone Number (Include area code)
Dennis Brian	Mondovi F.D.	(715) 926-3185

I called Dennis to verify and clarify Bill's report. Dennis said that the F.D. notified the Lueptows that they would have to remove the tanks and follow DILHR regs in the process. Dennis made this notification last week.

This week Dennis observed the pulled tanks with holes and reported this info to Bill Evans.

Dennis reported that he felt the Lueptows didn't believe the F.D. didn't have the authority ~~to make them follow~~ that requires them to have certified people do the work.

Dennis reported that he feels the Lueptows will follow the letter of the law now.

Check if additional sheets attached ☐

By RB

FILE NOTE

Facility/Company Name	Location (Address or ¼¼)	City, State, Zip Code
Lueptow Property	CTH H 6-7 mi S. of	Mondovi

Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST.	WD	Buffalo	☒ Telephone ☐ In-Person	5/15/90 (M M D D Y Y)	1340

Facility Representative Contacted	Title or Position of Representative	Telephone Number (include area code)
Connie Lueptow	Part owner	work (715) 926-4962

I called Ms Lueptow to acertain if they pulled the tanks. - She said they did.

→ I asked if she was aware that it was illegal to have the tanks pulled by a non-certified entity - She didnot.

→ I asked if she was aware a tank closure assessment was required - she was not.

I outlined her 2 options:

1) Hire a qualified environmental consultant to determine the extent & degree of contamination.

2) If she contests a leak has occured, conduct a tank closure assessment to determine if a leak has occured.

She indicated she would consult her husband but they most likely wouldnt contest if a leak has occured. → I said I would send her a letter explaining ~~the~~ their options

Check if additional sheets attached ☐

By RB

FILE NOTE

Facility/Company Name	Location (Address or ¼¼)	City, State, Zip Code
Lueptow Property		Mancos

Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST/UST?	WD		☒ Telephone ☐ In-Person	5/28/91 (M M D D Y Y)	1630

Facility Representative Contacted	Title or Position of Representative	Telephone Number (include area code)
Bob & Connie Lueptow		( )

Bought prop. when they bought property they didn't know tanks were there. Dug out tanks because Connie was going to put flowers in. They don't think Tanks were in use for over 30 yrs.

5½ yrs ago they heard if they had tanks they should register them. So they did.

What if tanks were properly abandoned 20 yrs ago?

→ Call Bill Morrisey & call me back

Check if additional sheets attached ☐

By TRS

FILE NOTE

Facility/Company Name	Location (Address or ¼¼)	City, State, Zip Code
Luptow		Mondovi

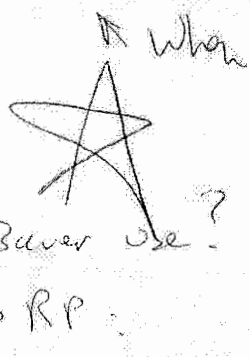
Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST	WD	Buffalo	☐ Telephone ☐ In-Person	8/13/91 (M M D D Y Y)	1515

Facility Representative Contacted	Title or Position of Representative	Telephone Number (Include area code)
Connie Luptow	Owner	( )

Connie said that

- Tanks operated & owned by John Tanner of Mondovi Oil till 1975.
- Then business bought by Buffalo Valley Oil
- Then business bought by Beaver Built.

I informed Connie that I would check other PRP's but she was still responsible for the clean up



Check if additional sheets attached ☐

By RB

APPENDIX F/HEALTH AND SAFETY PLAN

SAFETY PLAN INFORMATION

Code: METCO METCO Project No: C2141

Company Name: METCO

Contact:

Last Name: Powell First Name: Jason

Salutation: MR.

P.O. Box Street: 709 Gillette Street, Suite 3

City: La Crosse State WI Zip Code: 54603-0000

Area code: 608 Phone: 781-8879 Fax: (608)781-8893

SITE INFORMATION

Site Name: Lueptow Property

Site Address: County Highway H Site Address City: Independence

Site Address State: WI Site Address Zip Code: 54747 Site Address County: Buffalo

WDNR Contact: Tom Kendzierski Fire Dept. Contact: Town of Dover

Project Date: 8/27/2012 Tank Removal Contractor:

General Contractor: METCO

TANK INFORMATION

Tank Sizes\Contents

Tank 1:	500	Contents:	Gasoline	Age:	Removed
Tank 2:	250	Contents:	Gasoline	Age:	Removed
Tank 3:		Contents:		Age:	
Tank 4:		Contents:		Age:	
Tank 5:		Contents:		Age:	
Tank 6:		Contents:		Age:	

PURPOSE OF ACTIVITY (Check all appropriate)

New Tank Installation	☐	Tank Closure	☐	Install Tank Leak Detection	☐
Tank/Pipe Removal	☐	Tank\Pipe Repair	☐	Install Spill Protection	☐
Petroleum Release Investigation	☑	Install Remedial System	☐	Install Overfill Protection	☐
Leak Detection Testing	☐	Install Monotoring Wells	☑	Install Kard System	☐

Other Geoprobe Soil Borings

Backgro☐☐formation st☑s Complete ☑ Ir ☐

TYPE OF SITE

SITE HEALTH AND SAFETY PLAN

POTENTAIL HEALTH AND SAFETY HAZARDS (check all appropriate)

Handling\transfer of product: ☐
* Fire
* Explosions

General Construction: ☑
* Electrical Hazards
* Physical Injury

Confined Space Entry: ☐
* Explosions

Heavy Equipment: ☑
Noise: ☑
Oxygen Depletion: ☐
Excavation ☐
* Cave-ins
* Falls, slips

Poisonous plants: ☐
Other (Specify):

Snakes: ☐
Insects: ☐
Rodents: ☐
Heat: ☑
Cold: ☑

Description of site-specific hazards (utilities, terrain, etc.):
Underground utilities and site traffic

EVALUATION OF CHEMICAL HAZARDS (MSDS sheets attached)

NAME	PHYSICAL STATE	ROUTE OF ENTRY	OSHA PEL/TL	SYMPTOMS OF EXPOSURE
1.	Vapor/Liq	Inh/Skin	25-300PPM	Nausea, Irritation
2.				
3. Gasoline	Vapor/Liq	Inh/Skin	25-300 PPM	Irritation of eyes, nose and throat
4.				
5.				

ON-SITE PERSONNEL RESPONSIBILITIES

Team Member	Responsibilities
1. Jason Powell	Site Project Management
2. Eric Dahl	Hydrogeologist
3. Brandon Walker	Environmental Tech
4. Matt Michalski	Environmental Tech

METHOD TO CONTROL POTENTIAL HEALTH AND SAFETY HAZARDS

MONITORING INSTRUMENTS

Combustible Gas Indicator: ☐

Action Levels	Action
0-10% LEL	No Explosion Hazard

Action Levels		Action
Normal:	21%	None
Oxygen Deficient:	Less than 21%	Notify Health & Safety Officer
Oxygen Deficient:	Less than 19.5%	Evacuate

Photoionization Detector: ☑ Flame Ionization Detector: ☐ Detector Tubes: ☐

SITE HEALTH AND SAFETY PLAN

PERSONAL PROTECTIVE EQUIPMENT

Minimum Requirements

1. Hardhat
2. Safety glasses\goggles
3. Steel toes\shank shoes or boots
4. Flame retardant coveralls
5. Hearing protection (muffs or ear plugs)

Is additional PPE required? yes: ☐ no: ☑

Additional Requirements

Uncoated tyvek coveralls: ☐
Saranex tyvek coveralls: ☐
Rubber boots: ☐
Overboots: ☐
Surgical Inner Gloves: ☐
Butyl Neoprene\nitrile outer gloves: ☐

Full face respirators: ☐
* type of catrridge:
SCBA \ SAR: ☐
Other:

Level of protection designated A: ☐ B: ☐ C: ☐ D: ☑

SITE CONTROL

Work Zones

Support Zone: Beyond a 25' Radius of drilling or excavation and upwind of operation

Contamination Reduction Zone: Between 15 foot and 25 foot Radius of drilling or excavation

Exclusion Zone: Within 15 feet Radius of excavation or machine operation

Site Entry Procedure: Obtain approval and instructions from Project Leader.

Decontaminations Procedures:

Personnel: Remove protective equipment and wash hands prior to eating.

Equipment: Wash with brush and Alconox soap and rinsed with portable water.

Investigation-derived material disposal

Stockpiling: The soils will be placed on and covered with plastic. The client will determine the stockpile location, but will have to be approved by the Project Manager. Soils will be disposed of by the most efficient and cost effective approved method. DOT drums: Label drums as to content and date filled. Routinely inspect drums for leakage or spills. Place together in area where movement is at a minimum.

Work Limitations: Daylight hours. No eating, drinking, or smoking in the exclusion zone or the contamination reduction zone.

Employee Limitations:

Site Resources

Plan Prepared by: Date:

Plan Approved by: Date:

Shower: ☐ Water Supply: ☐

SITE HEALTH AND SAFETY PLAN

CONTINGENCY PLANNING

LOCAL RESOURCES	Phone Number
Ambulance: Gilmanton	911
Hospital Emergency Room: Tri-County Memorial Hospital	(715) 538-4361
Poison Control Center: Milwaukee	(800) 222-1222
Police Buffalo County Sherrif	911
Fire Dept: Gilmanton	911
Hazardous Waste Response Center:	800-943-0003 Wisconsin EPA 800-424-8802

Location Address: County Highway H, Independence, WI

EMERGENCY ROUTES (attach maps)

Hospital: Tri-County Memorial Hospital (18601Lincoln Street, Whitehall, WI) - Travel south on County Hwy H approx 1.8 miles to STH 121, turn left on STH 121 and travel east approx 18 miles to Whitehall. In Whitehall, turn right on West Street and travel 0.25 miles and hospital will be on left

Other:

EMERGENCY PROCEDURES

If an emergency develops at the site, the discoverer will take the following course of action:

* Notify the proper emergency service (fire, police, etc.) for assistance.
* Notify other personnel on the site. Notify Project Leader.
* Contact METCO and the client representative to inform them of the incident as soon as possible.
* Prepare a summary report of the incident for METCO and the client representative.

ON-SITE ORGANIZATION	PHONE NUMBERS	
METCO Project Leader: Jason Powell	work	608-781-8879
	home	608-526-6108
METCO Safety Officer: Linda Eastman	work	1-800-236-0448
	home	(608)489-2236
Engineer/Architect Contact:		
Client Contact: Lisa Lisowski		(715) 946-3311
METCO Corporate Contact: Paul Knower	home	(608)489-2659
	work	1-800-236-0448

DAILY SAFETY PLAN CHECK

1. Hard-hat
2. Visible fire extinguisher
3. Safety glasses
4. Hearing protection
5. No smoking on site
6. Safety data sheet
7. Route to hospital
8. Barricades (cones, flags, fences, vehicle)
9. Emegency phone numbers
10. Know where the job site book is

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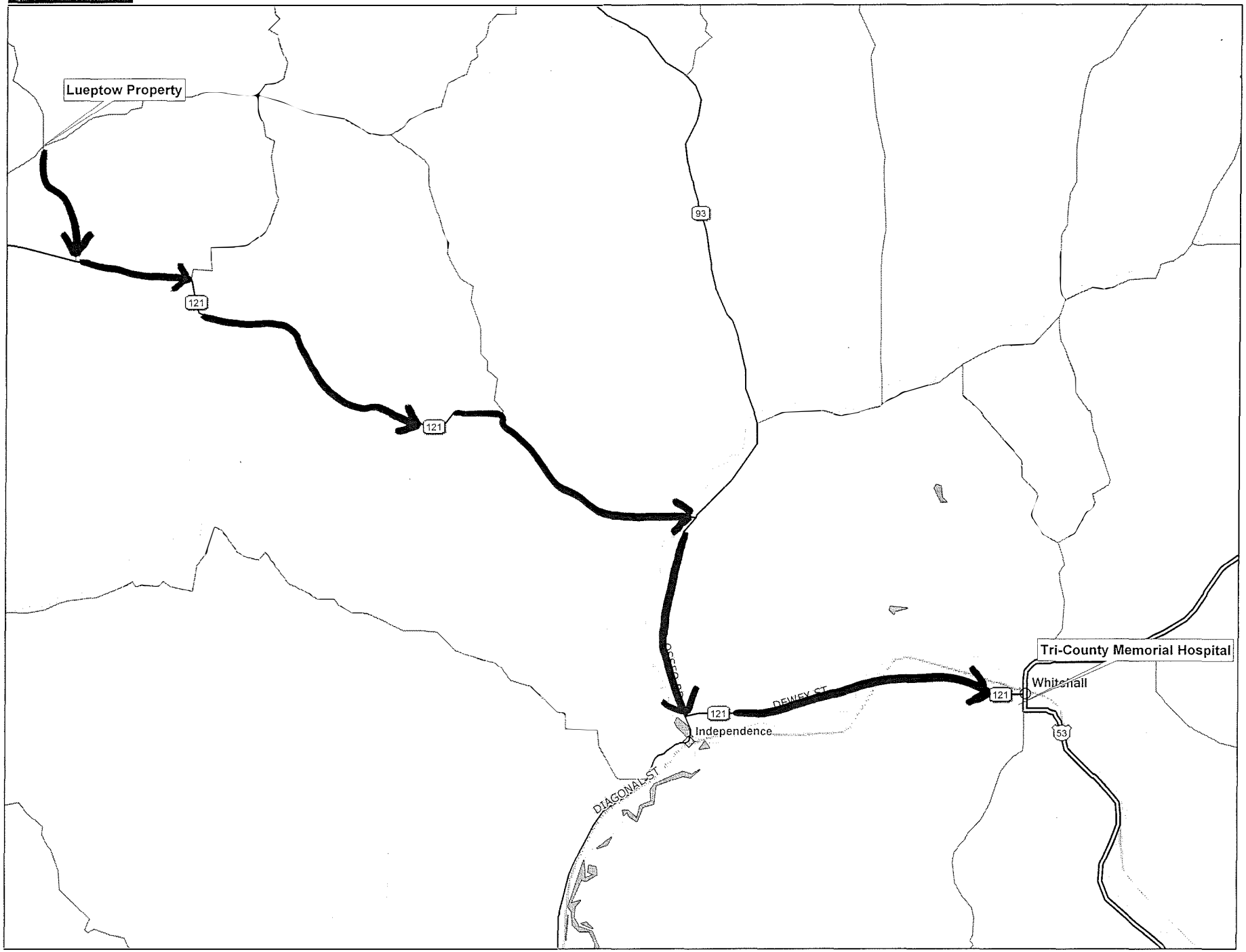

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MN (1.0°W)

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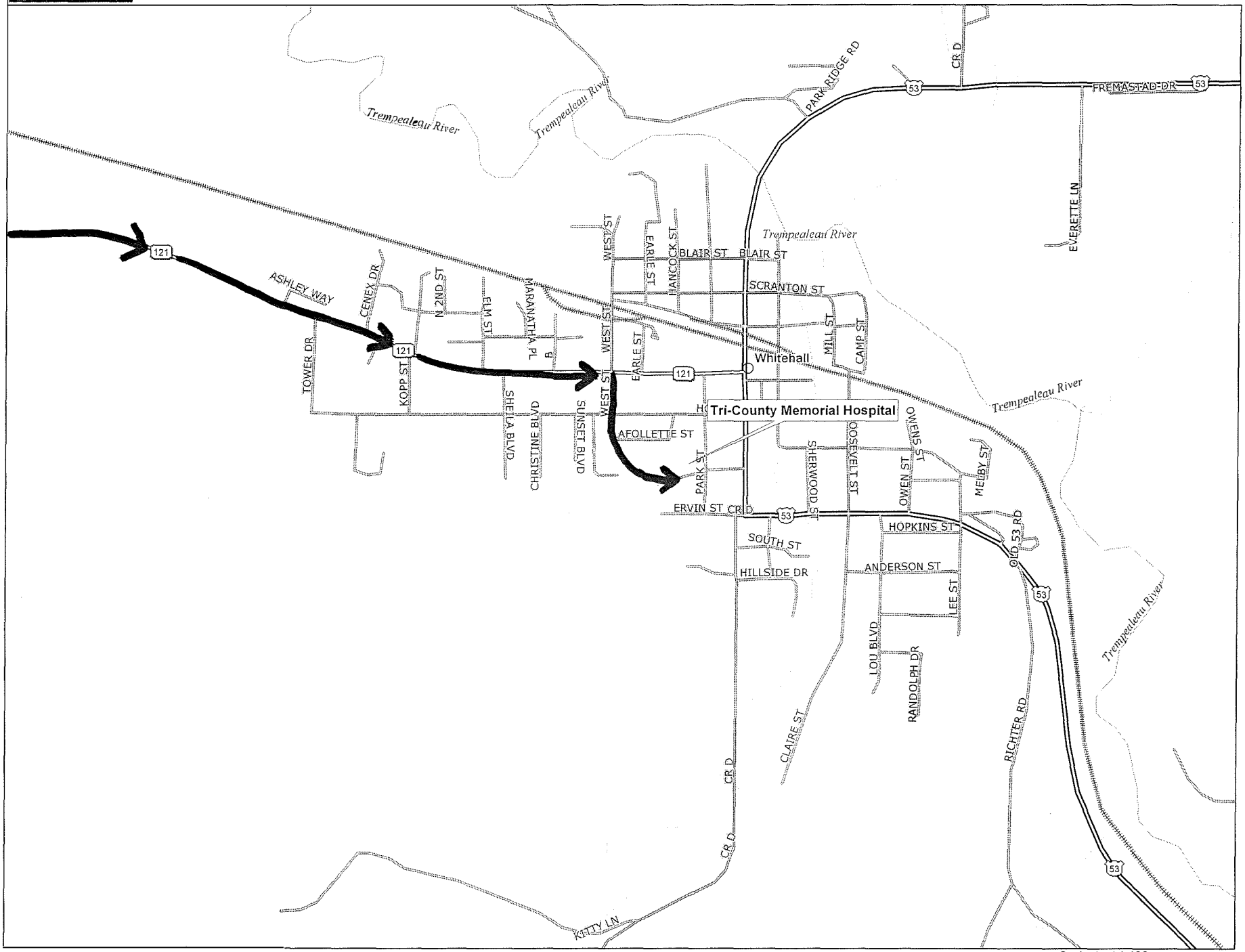
Data Zoom 10-6



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TN
MN (1.1°W)

Scale 1 : 14,400
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0 120 240 360 480 600 m
1" = 1,200.0 ft
Data Zoom 13-7

APPENDIX G/QUALIFICATIONS

LUST Investigation Field Procedures Workplan - METCO
Lueptow Property

Ronald J. Anderson, P.G.

Professional Titles

- Senior Hydrogeologist
- Project Manager

Credentials

- Licensed Professional Geologist in Wisconsin
- Licensed Professional Geologist in Minnesota
- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Hydrogeologist
- Certified by State of Wisconsin/DSPS to conduct PECFA-funded LUST projects
- Certified tank closure site assessor (#41861) in Wisconsin
- Member of the Wisconsin Groundwater Association
- Member of the Minnesota Groundwater Association
- Member of the Federation of Environmental Technologist, Inc.
- Member of the Wisconsin Fabricare Institute

Education

Includes a BA in Earth Science from the University of Minnesota-Duluth. Applicable courses successfully completed include Hydrogeology, Applied Hydrogeology, Environmental Geology, Geological Field Methods, Geology Field Camp, Geomorphology, Structural Geology, Stratigraphy/Tectonics, Mineralogy/Petrology, Glacial/Quaternary Geology, Geology of North America, Oceanography, General Chemistry, Organic Chemistry, and Environmental Conservation

Post-Graduate Education

Includes Personnel Protection and Safety, Conducting Comprehensive Environmental Property Assessments, Groundwater Flow and Well Hydraulics, Effective Techniques for Contaminated Groundwater Treatment, and numerous other continuing education classes and conferences.

Work Experience

Includes nine months with the Wisconsin Department of Natural Resources Leaking Underground Storage Tank Program regulating LUST sites and since June 1990, with METCO as a Hydrogeologist and Project Manager. Duties have included: managing, conducting, and reporting tank closure assessments; property assessment, LUST investigations; spill investigations; agricultural chemical investigations, dry cleaning chemical investigations, general geotechnical/environmental investigations; Geoprobe projects (soil, groundwater, soil gas sampling); drilling projects (soil boring and monitoring wells); and remedial projects. Since 1989, METCO has sampled/consulted over 700 environmental sites.

Jason T. Powell

Professional Title

- Staff Scientist

Credentials

- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Scientist.

Education

Includes a BS in Groundwater Management from the University of Wisconsin- Stevens Point. Applicable courses successfully completed include Hydrogeology, Applied Hydrogeology, Environmental Geology, Hydrogeology-Groundwater Flow Modeling, Groundwater Management, Structural Geology, Mineralogy, Glacial Geology, Soils, Soil Physics, Hydrology, Geochemistry, Water Chemistry, Organic Chemistry, General Chemistry, Environmental Issues.

Post-Graduate Education

40-hour OSHA Hazardous Materials Safety Training course with 8-hour refresher course.

Work Experience

With METCO since May 1992 as a Geoprobe Assistant and Geoprobe Operator. In June 1995 to July 1996 as a Environmental Technician. In July 1996 as a Staff Scientist. Duties have included: LUST investigations; general geotechnical/environmental investigations; Geoprobe projects (soil, groundwater sampling); drilling projects (soil boring and monitoring wells); remedial projects (sampling, pilot tests, system operation/maintenance) and project management.

Eric J. Dahl

Professional Title

- Hydrogeologist

Credentials

- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Hydrogeologist.
- Registered through the Wisconsin Department of Commerce as a PECFA consultant (#823519).
- Member of the Geological Society of America

Education

Includes B.S. in Geology from the University of Wisconsin-Eau Claire. Applicable courses successfully completed include Environmental Geology, Physical Hydrogeology, Chemical Hydrogeology, Computer Modeling in Hydrogeology, Aqueous Geochemistry, Field Geology I and II, Mineralogy and Petrology I and II, Sedimentology and Stratigraphy, Petroleum and Economic Geology, Earth Resources, Earth History, and Structural Geology.

Post-Graduate Education

40-hour OSHA Hazardous Materials Safety Training course with 8-hour refresher course.

Work Experience

With METCO since November 1999 as a Hydrogeologist. Duties have included: Site Investigations, Phase I and Phase II Environmental Site Assessments, Case Closure Requests/GIS Registry, geoprobe projects (oversight, direction, and sampling), drilling projects/monitoring well installation (oversight, direction, and sampling), soil excavation projects (oversight, direction, and sampling), geoprobe operation, and operation and maintenance of remedial systems.

Thomas P. Pignet, P.E.

Professional Titles

- Chemical Engineer
- Industrial Engineer

Credentials

- Licensed Professional Engineer in Wisconsin

Education

Undergraduate: B.S. in Chemical Engineering from the University of Wisconsin. Applicable courses include the standard chemistry curriculum - basic, physical, organic, etc. - plus engineering transport phenomena, chemical unit operations (e.g. separations), fluid mechanics, etc.

Post-Graduate Education

Ph.D. in Chemical Engineering from the University of Minnesota - with applicable special training in absorption & catalysis; M.S. in Industrial Engineering from the University of Wisconsin - Milwaukee - with special emphasis on statistical techniques and data analysis. Applicable further training: continuing education, semester-length courses in [1] Understanding Environmental & Safety Regulation; [2] Hazardous & Toxic Waste Management; plus a number of 1-2 day workshops - Fire & Explosion Safety; Small Quantity Generations of Hazardous Waste.

Work Experience

Includes ten years as a research chemical engineer with a large chemical manufacturer; one year as process development engineer and demonstration-scale test analyst on a unique coal gasification project; ten years in association with UW-M, teaching and consulting to industry on energy efficiency, waste minimization and productivity improvement. One year working with a small engineering consulting firm on energy, environmental, and process improvement projects, including LUST Investigations and Remediations. With METCO since February 2000. Duties include Remedial Action Plan preparation, pilot test design and performance, remedial systems design and implementation, and general management of METCO's remedial projects.

Brandon A. Walker

Professional Title

- Staff Scientist

Credentials

- Registered through the Wisconsin Department of Commerce as a PECFA consultant (#1052577).

Education

Includes B.S. in Geography and a minor in Environmental Studies from the University of Wisconsin- La Crosse. Applicable courses successfully completed include Water Resources, Ecology, Climate Systems, Earth Science, Zoology, Fundamentals of Cartography, Interpretation of Aerial Photography, Global Issues, Urban Geography, Environmental Sociology, and Environmental Studies.

Work Experience

With METCO since April 2007 as a Staff Scientist. Duties have included: soil and groundwater sampling, operation and maintenance of remedial systems, geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Scott A. Humrickhouse, Regional Director

West Central Region Headquarters
1300 W. Clairemont Avenue
PO Box 4001
Eau Claire, Wisconsin 54702-4001
Telephone 715-839-3700
FAX 715-839-6076
TDD 715-839-2786

COPY

May 26, 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

BRRTS No. 03-06-000583

Mr. and Mrs. Robert Lueptow
W448 CTH Z
Mondovi, WI 54755

SUBJECT: NOTICE OF NON-COMPLIANCE
Petroleum Contamination Investigation at Lueptow Property, Mondovi, WI

Dear Mr. and Mrs. Lueptow:

The purpose of this letter is to advise you that you may not be in compliance with Section 292.11(3), Wisconsin Statutes, the hazardous substance spill law. On April 6, 1995, the Department of Natural Resources (DNR) sent you a letter requiring you to update this office on the status of your cleanup project by May 6, 1995. As of this date, you have not reported any progress in meeting state cleanup requirements.

The hazardous substance spill law, section 292.11 (3), states:

> RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

To comply with the hazardous substance law, by June 28, 1999, you must provide me with written confirmation that you have hired a consultant, and by July 28, 1999, submit a workplan for doing the contamination investigation. Should you fail to comply, the DNR will need to pursue enforcement actions, which may include an enforcement conference, and filing of an affidavit of contamination on the deed for this property. Violations of the spill law can also be subject to monetary forfeitures.

6/28/99

I look forward to hearing from you, and to working with you and your consultant to investigate this contamination, and progress toward case closeout. If you have any questions about this letter or what needs to be done, please feel free to call me at (715) 839-3824.

Sincerely,

Eileen Kramer
Hydrogeologist
Remediation & Redevelopment Program

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of

Tommy G
George E
Scott A. H

TURAL RESOURCES

Central Region Headquarters
1300 W. Clairemont Avenue
PO Box 4001
Claire, Wisconsin 54702-4001
Telephone 715-839-3700
FAX 715-839-6076
TDD 715-839-2786

Z 404 101 921

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail *(See reverse)*

Sent to	Mr./Mrs R Lueptow
Street & Number	W448 CTH "Z"
Post Office, State, & ZIP Code	Mondovi, WI 54755
Postage	$ .33
Certified Fee	1.40
Special Delivery Fee	
Restri ted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$ 2.98
Postmark or Date	5-26-99

PS Form 3800, April 1995

May 26, 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

lo. 03-06-000583

Mr. and Mrs. Robert Lueptow
W448 CTH Z
Mondovi, WI 54755

SUBJECT: NOTICE OF NON
Petroleum Contam

dovi, WI

Dear Mr. and Mrs. Lueptow:

The purpose of this letter is to advise you that you may not be in compliance with Section 292.11(3), Wisconsin Statutes, the hazardous substance spill law. On April 6, 1995, the Department of Natural Resources (DNR) sent you a letter requiring you to update this office on the status of your cleanup project by May 6, 1995. As of this date, you have not reported any progress in meeting state cleanup requirements.

The hazardous substance spill law, section 292.11 (3), states:

> RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

To comply with the hazardous substance law, by June 28, 1999, you must provide me with written confirmation that you have hired a consultant, and by July 28, 1999, submit a workplan for doing the contamination investigation. Should you fail to comply, the DNR will need to pursue enforcement actions, which may include an enforcement conference, and filing of an affidavit of contamination on the deed for this property. Violations of the spill law can also be subject to monetary forfeitures.

I look forward to hearing from you, and to working with you and your consultant to investigate this contamination, and progress toward case closeout. If you have any questions about this letter or what needs to be done, please feel free to call me at (715) 839-3824.

COPY

Sincerely,

Eileen Kramer
Hydrogeologist
Remediation & Redevelopment Program

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Scott A. Humrickhouse, Regional Director

West Central Region Headquarters
1300 W. Clairemont Avenue
PO Box 4001
Eau Claire, Wisconsin 54702-4001
Telephone 715-839-3700
FAX 715-839-6076
TDD 715-839-2786

May 26, 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

BRRTS No. 03-06-000583

Mr. and Mrs. Robert Lueptow
W448 CTH Z
Mondovi, WI 54755

SUBJECT: NOTICE OF NON-COMPLIANCE
Petroleum Contamination Investigation at Lueptow Property, Mondovi, WI

Dear Mr. and Mrs. Lueptow:

The purpose of this letter is to advise you that you may not be in compliance with Section 292.11(3), Wisconsin Statutes, the hazardous substance spill law. On April 6, 1995, the Department of Natural Resources (DNR) sent you a letter requiring you to update this office on the status of your cleanup project by May 6, 1995. As of this date, you have not reported any progress in meeting state cleanup requirements.

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To comply with the hazardous substance law, by June 28, 1999, you must provide me with written confirmation that you have hired a consultant, and by July 28, 1999, submit a workplan for doing the contamination investigation. Should you fail to comply, the DNR will need to pursue enforcement actions, which may include an enforcement conference, and filing of an affidavit of contamination on the deed for this property. Violations of the spill law can also be subject to monetary forfeitures.

I look forward to hearing from you, and to working with you and your consultant to investigate this contamination, and progress toward case closeout. If you have any questions about this letter or what needs to be done, please feel free to call me at (715) 839-3824.

Sincerely,

Eileen Kramer

Eileen Kramer
Hydrogeologist
Remediation & Redevelopment Program

188495 VOL. 243 PAGE 605

STATE OF WISCONSIN, CIRCUIT COURT, BUFFALO COUNTY

IN THE MATTER OF THE ESTATE OF

ROBERT M. LUEPTOW

SUMMARY SETTLEMENT FINDINGS AND ORDER

REGISTER OF DEEDS } SS.
BUFFALO COUNTY, WIS. }
Received for Record the 15
day of July A.D. 1996 at 9:00
o'clock A.M. and recorded in
Vol. 243 of REC Page 605
Donna L. Crotteau
REGISTER

File No. 96 PR 42

THE COURT FINDS THAT:

1. The named person, died on Aug. 26, 1994 (Date), domiciled in Buffalo County, Wisconsin.

2. The estate is one properly settled under summary settlement. If notice to the Department of Health and Social Services was required, more than 30 days have elapsed since that notice was sent to the Department.

3. The property of the decedent is described as follows:

DESCRIPTION OF PROPERTY	VALUE AT DATE OF DEATH
A. Individual and Predetermination Date Property:	
1. 1979 Keifer PT 165006	$ 200.00
2. 14' Crestliner Boat and Trailer Hull ID# WSZ276290891	150.00
3. Real Estate (see legal description on Exhibit A attached)	7,000.00
4. Buffalo Equity Credits	395.03
5. 1986 Buick VIN 1G4AL19X4G6437794	300.00
6. 1983 Explorer VIN 1FTHF26L1BPA88084	200.00
TOTAL:	$ 8,245.00
B. Joint Tenancy Property and Name of Joint Tenant(s):	
NONE	
C. Survivorship Marital Property: Name of Spouse Connie A. Lueptow	
1. That part of the Northeast Quarter of the Southwest Quarter, Section 29, T 23 N, R 10 West, lying West of the Town Road	$ 7,500.00
2. Residence: see legal description on Exhibit B attached	15,700.00
TOTAL:	$23,200.00
D. All Other Property:	
NONE	

FILED
JUN 26 1996
BUFFALO COUNTY
REGISTER IN PROBATE

State of Wisconsin
County of Buffalo
This document is a full, true and correct copy of the original on file and of record in my office and has been compared by me.
Attest: June 26, 1996
Barbara Brunner, Deputy
Register in Probate

16.00

BEAR GRAPHICS, INC. 1-800-325-8094

188495

VOL. 243 PAGE 607

EXHIBIT A

ROBERT M. LUEPTOW SUMMARY SETTLEMENT

Lands in Buffalo County described as follows:

Commencing at a point 4 rods South and 23 rods West of the Southeast corner of the NW¼ of the NE¼ of Section 14, Township 24 North, Range 11 West, thence run South 8 rods, thence East 4 rods, thence North 8 rods, thence West 4 rods to place of beginning.

Commencing at the Northwest corner of Lot 370 of the 1940 Assessor's Plat of the City of Mondovi, as prepared by Frank J. Davy and Son, thence running South 8 rods to the South line, thence East 4 rods, thence North 8 rods to the North line, thence West 4 rods to place of beginning. Lot 370 A of the Assessor's Plat of the City of Mondovi.

Subject to Life Estate of Madoline E. Lueptow.

608

128475

VOL. 243 PAGE 608

EXHIBIT B

ROBERT M. LUEPTOW SUMMARY SETTLEMENT

Lands in Buffalo County described as follows:

Commencing at the Southwest corner of the Southwest Quarter of the Northeast Quarter, Section 8, Township 23 North, Range 10 West, thence East 1½ rods, thence North 10½ rods, to point of beginning, said point of beginning being the point of intersection of the North line of County Trunk Highway Z and the East line of County Trunk Highway H; thence Northeasterly along the North edge of said County Trunk Highway Z 200 feet, thence Northwesterly to a point 136 feet North of the point of beginning, thence South to point of beginning.

ALSO, commencing at the Southwest corner of the Southwest Quarter of the Northeast Quarter of Section 8, Township 23 North, Range 10 West, thence running East 1½ rods, thence North 10½ rods to the North line of County Trunk Highway Z, thence Northeasterly along the North edge of said County Trunk Highway Z 200 feet to point of beginning, thence running Northeasterly along the North edge of said County Trunk Highway Z 86 feet, thence Northwesterly at right angles to said County Trunk Highway Z 40 feet, thence Southwesterly parallel to County Trunk Highway Z 50 feet, thence Southwesterly to a point of beginning.

Stock No. 11142

WBA 428 (5/24/95)

©Wisconsin Bankers Association 1995

RIPCO

187366

VOL. 240 PAGE 404

DOCUMENT NO.

REGISTER OF DEEDS } SS.
BUFFALO COUNTY, WIS. }
Received for Record the 6
day of March A.D. 1996 at 9:00
o'clock A M. and recorded in
Vol. 240 of Rec. Page 404
Gayla Hald Rohman
REGISTER
Deputy

Recording Area 14 pd

Name and Return Address
Bank of Mondovi
P.O. Box 187
Mondovi, WI 54755

Parcel Identifier No.

REAL ESTATE MORTGAGE

(For Consumer or Business Mortgage Transactions)

Connie A. Lueptow, a Single Person ("Mortgagor," whether one or more) mortgages, conveys and warrants to Bank of Mondovi ("Lender") in consideration of the sum of Thirty Thousand Dollars and No/100 Dollars ($ 30,000.00), loaned or to be loaned to _____ ("Borrower," whether one or more), evidenced by Borrower's note(s) or agreement dated Jan 16, 1996, the real estate described below, together with all privileges, hereditaments, easements and appurtenances, all rents, leases, issues and profits, all claims, awards and payments made as a result of the exercise of the right of eminent domain, and all existing and future improvements and fixtures (all called the "Property").

1. Description of Property. (This Property is (is) (is not) the homestead of Mortgagor.)

See Attached

☐ If checked here, description continues or appears on attached sheet.
☐ If checked here, this Mortgage is a "construction mortgage" under §409.313(1)(a) Wis. Stats.
☐ If checked here, Condominium Rider is attached.

2. Title. Mortgagor warrants title to the Property, excepting only restrictions and easements of record, municipal and zoning ordinances, current taxes and assessments not yet due and _____

3. Escrow. Interest _____ (will) (will not) be paid on escrowed funds if an escrow is required under paragraph 8(a) on the reverse side.

4. Additional Provisions. Mortgagor agrees to the Additional Provisions on the reverse side, which are incorporated herein.
The undersigned acknowledges receipt of an exact copy of this Mortgage.

NOTICE TO CUSTOMER IN A TRANSACTION GOVERNED BY THE WISCONSIN CONSUMER ACT
(a) DO NOT SIGN THIS BEFORE YOU READ THE WRITING ON THE REVERSE SIDE, EVEN IF OTHERWISE ADVISED.
(b) DO NOT SIGN THIS IF IT CONTAINS ANY BLANK SPACES.
(c) YOU ARE ENTITLED TO AN EXACT COPY OF ANY AGREEMENT YOU SIGN.
(d) YOU HAVE THE RIGHT AT ANY TIME TO PAY IN ADVANCE THE UNPAID BALANCE DUE UNDER THIS AGREEMENT AND YOU MAY BE ENTITLED TO A PARTIAL REFUND OF THE FINANCE CHARGE.

Signed and Sealed Jan 16, 1996 (Date)

_____ (SEAL)
(Type of Organization)

By: _____
(Title)

By: _____ (SEAL)
(Title)

Connie A Lueptow (SEAL)
Connie A Lueptow

_____ (SEAL)

_____ (SEAL)

AUTHENTICATION OR ACKNOWLEDGEMENT

Signatures of _____

authenticated this _____ day of _____, 19____

Title: Member State Bar of Wisconsin or authorized under §706.06, Wis. Stats

This instrument was drafted by
Bank of MOndovi
jtm

*Type or print name signed above.

STATE OF WISCONSIN } SS.
County of Buffalo

This instrument was acknowledged before me on Jan 16, 19 96, by Connie A Lueptow
(Name(s) of person(s))

as _____
(Type of authority, e.g., officer, trustee, etc., if any)

(Name of party on behalf of whom instrument was executed, if any)

NOTARIAL SEAL
STATE OF WISCONSIN
Daniel J Anderson
Notary Public, Wisconsin
My Commission (Expires)(Is) 2/22/96

187366 VOL. 240 PAGE 486

Amended Caption 1-A

To the following described Real Estate situated in the County of Buffalo, State of Wisconsin, described as follows, to-wit:

Commencing at the Southwest Corner of the Southwest Quarter of the Northeast Quarter, Section 8, Township 23 North, Range 10 West, thence East 1½ rods, thence North 10½ rods, to point of beginning, said point of beginning being the point of intersection of the North line of County Trunk Highway Z and the East line of County Trunk Highway H; thence Northeasterly along the North edge of said County Trunk Highway Z 200 feet, thence Northwesterly to a point 136 feet North of the point of beginning, thence South to point of beginning.

Also commencing at the Southwest corner of the Southwest Quarter of the Northeast Quarter of Section 8, Township 23 North, Range 10 West, thence running East 1½ rods, thence North 10½ rods to the North line of County Trunk Highway Z, thence Northeasterly along the North edge of said County Trunk Highway Z 200 feet to point of beginning, thence running Northeasterly along the North edge of said County Trunk Highway Z 86 feet, thence Northwesterly at right angles to said County Trunk Highway Z 40 feet, thence Southwesterly parallel to County Trunk Highway Z 50 feet, thence Southwesterly to point of beginning.

Note by Abstracter: The purpose of this Amended Caption 1-A, is to increase the amount of property previously shown.

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Scott A. Humrickhouse, Regional Director

West Central Region Headquarters
1300 W. Clairemont Avenue
PO Box 4001
Eau Claire, Wisconsin 54702-4001
Telephone 715-839-3700
FAX 715-839-6076
TDD 715-839-2786

June 24, 1999

COPY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

BRRTS No. 03-06-000583

Mrs. Connie Lueptow
W448 CTH Z
Mondovi, WI 54755

SUBJECT: NOTICE OF NON-COMPLIANCE
Petroleum Contamination Investigation at Lueptow Property, Mondovi, WI

Dear Mrs. Lueptow:

The purpose of this letter is to advise you that you may not be in compliance with Section 292.11(3), Wisconsin Statutes, the hazardous substance spill law. On April 6, 1995, the Department of Natural Resources (DNR) sent you a letter requiring you to update this office on the status of your cleanup project by May 6, 1995. As of this date, you have not reported any progress in meeting state cleanup requirements.

The hazardous substance spill law, section 292.11 (3), states:

> RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

To comply with the hazardous substance law, by July 23, 1999, you must provide me with written confirmation that you have hired a consultant, and by August 23, 1999, submit a workplan for doing the contamination investigation. Should you fail to comply, the DNR will need to pursue enforcement actions, which may include an enforcement conference, and filing of an affidavit of contamination on the deed for this property. Violations of the spill law can also be subject to monetary forfeitures.

I look forward to hearing from you, and to working with you and your consultant to investigate this contamination, and progress toward case closeout. If you have any questions about this letter or what needs to be done, please feel free to call me at (715) 839-3824.

Sincerely,

Eileen Kramer
Hydrogeologist
Remediation and Redevelopment Program

Kendzierski, Thomas J - DNR

From: Kendzierski, Thomas J - DNR
Sent: Friday, September 30, 2011 3:42 PM
To: Ron Anderson, METCO - Environmental Division
Subject: Lueptow Property file # 03 06 000583

Attachments: 20110930143349364.pdf

20110930143349364.pdf (4 MB)

Hi Ron,

Here is a partial scan of the Lueptow property file. Not much of technical substance here. They need to start with a compliant tank closure assessment.

The attached scan is just some early stuff. The rest of the file is primarily DNR enforcement demands and phone calls from us asking for action.

If you need the rest of the file just let me know and I will copy and send.

Thanks for your efforts at getting things moving here. Please keep in touch with me regarding moving the other sites we discussed.

Tom Kendzierski
Regional Spill Coordinator/Hydrogeologist WDNR Eau Claire SPILL HOTLINE CALL 1 800 943-0003
(*) desk phone: (715) 839-1604
(*) fax: (715) 839-6076

-----Original Message-----
From: Ron Anderson, METCO - Environmental Division [mailto:rona@metcohq.com]
Sent: Friday, September 23, 2011 09:59 AM
To: Kendzierski, Thomas J - DNR
Subject: Re: phone call

Thanks Tom...I appreciate your help...ron - metco

On 9/23/2011 9:46 AM, Kendzierski, Thomas J - DNR wrote:
> Not much in the file. I'll email the technical stuff next week for starters. Site needs a proper tank site assessment. Mostly enforcement letters in there. I'll snail mail the whole show. You can choose what you need. Lisa had called me too in response to your letters Good Work!
> Tom Kendzierski - WDNR Eau Claire
>
> ----- Original Message -----
> From: Ron Anderson, METCO - Environmental Division
> [mailto:rona@metcohq.com]
> Sent: Friday, September 23, 2011 08:36 AM
> To: Kendzierski, Thomas J - DNR
> Subject: phone call
>
> Good morning Tom...
>
> Thanks for returning my call...sorry I missed you.
>

> The reason I was calling is to let you know the Lisa Lisowfki who owns
> the Lueptow Property site in Mondovi has asked me to become their
> agent....which we are now working on.
>
> Also, I was wondering if you could email me the file...assuming that
> there isn't too much in it.
>
> Let me know...thanks, ron
>
>

FILE REVIEW/SUMMARY		
Site Name: Lueptow Property	Co. Buffalo	No. 583
Location: W448 CTH Z ~ MONDOVI		
RP: Robert + Connie Lueptow	Phone #: 715-926-3550	
Consultant:	Phone #:	
Review Date: 10/5/95	Reviewed by:	
PECFA Status: Elig./Non-Elig.	F4 App'd for SI/PRAP:	
F4 App'd for RA:	F4 App'd for O&M:	
Depth to GW:	Flow direct'n:	
GW Cont'n:	No. of MWs	
Type of soil:	Soil cont'n:	
Potential Receptors:		
Chron/Summary:		

5/15/91 call from Mondovi FD to BEvans that 2 tanks were removed - both had holes & had been out of service

5/15/91 Baker called D. Brion @ FD - FD told them (RPs) to remove tanks + follow DILHR reg's

5/15/91 Baker called RP - asked if tanks pulled - YES, asked if aware of reg's - NO - sent letter w/ options

5/15/91 sent RP letter (Baker)

5/28/91 phone call - didn't know tanks were there when prop. bought.

7/11/91 prod letter (Baker)

8/13/91 call w/ chrono of past owners (Mondovi Oil, Buffalo Valley Oil, Bauer)

8/22/91 NOV (Darrel Solberg)

9/1/91 RP consulting w/ lawyers (letter)

1/7/92 phone call - NOT available

2/3/92 phone call - haven't found out anything from lawyer, no $, tanks still on property, ~~PRP~~ bonded

1/4/94 phone call - no consultant, looking for a new lawyer, old one didn't want to fight DNR

Signature:	Follow Up:

→ 4/6/95 prod - (Franz)

**********PHONE LOG **********

SITE NAME: Leviton Property LOCATION: Melrose

TO:

FROM: CONTACT: Kristie Grant TELEPHONE# ( ) -

AGENCY/FIRM: DATE: 01/14/94 TIME: 1:15

****

CONVERSATION SUMMARY: Talked to Connie Leviton, told her that it had been since 92 that we had last heard from her, asked what the status is. She informed me that her original lawyers did not want to fight the DNR. She is now looking for new lawyers. She has not hired a consultant.

****

SIGNATURE: FOLLOW-UP REQUIRED? ___YES ___NO

REFERRED TO:

STATE OF WISCONSIN
REPLY MESSAGE
FORM AD-16

INSTRUCTIONS TO SENDER:
REMOVE YELLOW COPY FOR YOUR FILE.
SEND REMAINDER OF FORM I' CT WITH CARBONS TO PERSON ADDRESSED.

TO: Chris Peterson
W/District

FROM: Twylla Dobbs
BR Falls

SUBJECT—MESSAGE

— Scholze Property: Ron Anderson felt area was clean enough to close 5-28-90. Then in a phone condersation bet. Skip & Mr. Scholze, Art said there was more ?! Please see what you think & how should it be handled.

Lueptow Property: I returned to work first part of the year & called several times. I finally reached Mr. Lueptow. Nothing has been decided on this case by them.

REPLY

SIGNED Twylla Dobbs DATE 2-4-92

SIGNED _____ DATE _____

FILE NOTE

Facility/Company Name	Location (Address or ¼¼)	City, State, Zip Code
Lueptow Residence		

Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST	WD	Buffalo	☒ Telephone ☐ In-Person	9/16/91 (M M D D Y Y)	__ __ __ __

Facility Representative Contacted	Title or Position of Representative	Telephone Number (include area code)
Darrell Solberg	WD	( )

Darrell got a response to his NOV. We decided to let the Lueptows check on their legal alternatives before pursueing further enforcement action.

Check back @ them in November

Chec'

By RB

☐ Return ☐ File
☐ Route to:
☐ Code
☐ Per Your Request
☐ Reply Direct
☐ Prepare Reply For My Signature
☐ Revise
☐ Sign
☐ Approve
☐ Take Action
See Me
for Your Information

Sept. 1, 1991

RECEIVED
SEP 04 1991
DNR-WD

Dear Mr. Sadberg,

This is to let you know that we received your letter.

In answer to it, due to the circumstances of the ownership and non-registration of these tanks & the concelment of these tanks when property was purchased, we have decided to consult with an attorney on this matter before we take any action.

We have been in contact throughout the last few weeks with both Jim Baker of DNR, Madison & Terry Bauer - Duker - Stevens Point. We will continue to keep in contact as to this matter.

Sincerely, Connie C. Lueptow
Robert M. Lueptow

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

August 22, 1991 4190

Robert and Connie Lueptow
W448 CTH Z
Mondovi, WI 54755

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RE: NOTICE OF VIOLATION

Petroleum Contamination at Lueptow property located in Mondovi, Wisconsin, Buffalo County

Dear Mr. and Mrs. Lueptow:

The Department of Natural Resources has been notified that petroleum contamination was discovered during a tank removal at the above site. Because you are the legal property owners, you have a legal responsibility to address this problem.

S. 144.76(3), Wisconsin Statutes states that a person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Releases from underground storage tanks are also regulated by federal law. The Environmental Protection Agency (EPA) administers the federal law and has the authority to take enforcement actions against the parties who are not cooperating with the state.

Because a hazardous substance may have been released to the environment, you are responsible for conducting a remedial investigation to determine the extent of contamination and potential for groundwater impact. Remedial actions must be taken to clean up contaminated soils and groundwater, if applicable. An immediate concern is to identify any risks of explosive or toxic vapors and/or water well contamination.

The Department requests that within seven days of receiving this letter, you notify this office, in writing, with the name of the qualified environmental consultant which you have retained to conduct a remedial investigation on this property.

Violations of this section could result in forfeitures of not less than $10 nor more than $5,000 for each violation under s. 144.99, Wisconsin Statutes. Each day that you are not in compliance is considered a separate violation.

Any questions concerning this letter should be directed to Timothy Baker at (715) 284-1428 or myself at (715) 839-3752.

Sincerely,

Darrell Solberg

Darrell Solberg
Enforcement Specialist

cc: Bill Evans - WD
Timothy Baker - BRF
EE/5 Entrack
SW/3

FILE NOTE

Facility/Company Name	Location (Address or ¼ ¼)	City, State, Zip Code
Luptow		Mondovi

Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST	WD	Buffalo	☐ Telephone ☐ In-Person	8/13/91 (M M D D Y Y)	1515

Facility Representative Contacted	Title or Position of Representative	Telephone Number (include area code)
Connie Luptow	Owner	( )

Connie said that

- Tanks operated & owned by John Tanner of Mondovi Oil till 1975.
- Then business bought by Buffalo Valley Oil
- Then business bought by Bauer Built.

I informed connie that I would check other PRP's but she was still responsible for the clean up

Check if additional sheets attached ☐

By RB

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

910 Highway 54 East
Black River Falls, WI 54615
TELEPHONE 715-284-1400
TELEFAX715-248-1737

Carroll D. Besadny
Secretary

July 11, 1991 File Code: 4440

Robert & Connie Lueptow
W448 CTH Z
Mondovi, WI 54755

RE: Petroleum Contamination Cleanup At ***Lueptow Property, Mondovi, Buffalo County.***

Dear Mr. and Mrs. Lueptow:

During a recent review of your file, I noted that no work has been done since 05/28/91, when you were going to check with Bill Morresy, and call me back. Please bring me up to date on the status of your cleanup project. I request a brief written description of the current project status by 08/16/91.

If work has been done since we spoke, please submit a report documenting all work.

If you feel you have completed the cleanup at this site, please submit a final report and request a review of your file. Please be aware that the Department of Natural Resources (the department) has a significant backlog of cases similar to yours. Your case will be reviewed as time permits.

If work has been temporarily discontinued or if you are planning further investigative work, please provide me with a written statement of the current status of your case.

Please be advised that under the Spills Law (Wisconsin Statute 144.76), you have a legal responsibility to clean up all contamination. Although the department cannot review your case at every stage in the project, you are still required to take the steps necessary to restore the environment to the extent practicable. Please ask your environmental consultant for guidance on meeting Wisconsin's cleanup standards.

If you feel that you are currently eligible for a PECFA payment, please apply to the Department of Industry, Labor and Human Relations. FORM 4 in the PECFA application packet should be sent to me for my review and signature. Please be advised that failure to address this problem in an appropriate and timely manner will jeopardize your eligibility for PECFA reimbursement.

In any case, please provide me with written notice of your case status by 08/16/91. You may contact me at (715)284-1428. Thank you for working to clean up Wisconsin's soils and groundwater.

Sincerely,

Timothy R. Baker
Area Hydrogeologist

c: Dave Lundberg - WD
Bill Evans - WD
file

FILE NOTE

Facility/Company Name	Location (Address or ¼¼)	City, State, Zip Code
Lueptow Property		Mendon

Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST/UST?	WD		☒ Telephone ☐ In-Person	5/28/91 (M M D D Y Y)	1630

Facility Representative Contacted	Title or Position of Representative	Telephone Number (include area code)
Bob & Connie Lueptow		( )

Bought prop. when they bought property they didn't know tanks were there. Dug out tanks because Connie was going to put flowers in. They don't think Tanks were in use for over 30 yrs.

5½ yrs ago they heard if they had tanks they should register them. So they did.

What if tanks were properly abandoned 30 yrs ago?

→ Call Bill Morrissy & call me back

Check if additional sheets attached ☐

By RTB

State of Wisconsin \ **DEPARTMENT OF NATURAL RESOURCES**

Carroll D. Besadny
Secretary

910 Highway 54 East
Black River Falls, Wisconsin 54615-9204

May 15, 1991

File Ref: 4440

Robert and Connie Lueptow
W448 CTH Z
Mondovi, WI 54755

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RE: Soil Contamination at the ***Lueptow Property, Mondovi, Buffalo County***

Dear Mr. and Mrs. Lueptow:

The Department of Natural Resources has been notified by the Mondovi Fire Department that petroleum contamination was discovered during a tank removal at the above facility. The purpose of this letter is to inform you of your legal responsibilities to address this situation.

Wisconsin Statute 144.76(3) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state."

Releases from underground storage tanks are also regulated by federal law. The Environmental Protection Agency (EPA) administers the federal law and has authority to take enforcement actions against parties not cooperating with the state.

Because a hazardous substance has been released to the environment, you are responsible for conducting an investigation to determine the extent of contamination and potential for groundwater impact. Remedial actions must be taken to clean up contaminated soils and groundwater, if applicable. An immediate concern is the need to identify any risks of explosive or toxic vapors and/or water well contamination.

Generally, the sooner a release is discovered and responded to, the smaller the damaging impacts and the cost of remediation are. Please be sure that all products, soils, wastewater or sludges are disposed of or treated in an approved manner.

The department requests that within 15 days of receiving this letter that you notify this office in writing whether you have hired an experienced environmental consultant to conduct a remedial investigation to assess the environmental impact. Please provide the following information:

1) Verification that you have hired a consultant
2) The name of the consultant
3) The date that the remedial investigation is to begin

The department requires that you have a qualified environmental engineer or hydrogeologist direct the remedial investigation. Your consultant may contact this office to obtain our guidelines for conducting a remedial investigation. Enclosed is a list of environmental consultants and engineers qualified to perform the necessary work.

Two copies of the reports containing complete documentation of the investigation and clean up shall be sent to this office when completed. The department is experiencing a backlog of leaking underground storage tank cases of emergency status and your case will be reviewed as time permits. You are reminded, however, that you have a legal obligation to take the steps necessary to clean up the discharge in a timely manner.

You are encouraged to contact the Department of Industry, Labor, and Human Relations (DILHR), the state agency that administers the Petroleum Environmental Cleanup Fund (PECFA). This fund will reimburse you for eligible costs associated with the remedial investigation and cleanup. DILHR should be contacted at (608) 267-4545 to obtain current information regarding the PECFA program. A summary of the PECFA program is enclosed.

Your cooperation in this matter will be appreciated. Please be aware that your ability to use PECFA funds is dependent on your cooperation in adequately addressing this problem.

If you contest that a release of a hazardous substance has occurred, you are required by state and federal law to conduct a tank closure assessment that follows all DILHR requirements. The purpose of a Tank closure assessment is to determine if there has been a release to the environment.

If you have any questions regarding this letter, please feel free to contact me at (715) 284-1428.

Sincerely,

RB

Timothy R. Baker
Area Hydrogeologist

Enclosures

c: Bill Evans - WD
John Paddock - WD
Terry Bauer - DILHR, 2715 Post Road, Stevens Point, WI 54481

→ File

FILE NOTE

Facility/Company Name	Location (Address or ¼¼)	City, State, Zip Code
Luepkow Property	CTH H 6-7 mi S. of	Mondovi

Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST.	WD	Buffalo	☒ Telephone ☐ In-Person	5/15/90 (M M D D Y Y)	1340

Facility Representative Contacted	Title or Position of Representative	Telephone Number (include area code)
Connie Luepkow	Part owner	work (715) 926-4962

I called Ms Luepkow to acertain if they pulled the tanks. - She said they did.

→ I asked if she was aware that it was illegal to have the tanks pulled by a non-certified entity - she didnot.

→ I asked if she was aware a tank closure assessment was required - she was not.

I outlined her 2 options:

1) Hire a qualified environmental consultant to determine the extent & degree of contamination.

2) If she contests a leak has occured, conduct a Tank closure assessment to determine if a leak has occured.

She indicated she would consult her husband but they most likely wouldnt contest if a leak has occured. → I said I would send her a letter explaining ~~the~~ their options

Check if additional sheets attached ☐

By RB

FILE NOTE

Facility/Company Name	Location (Address or ¼¼)	City, State, Zip Code
Lueptow Property	CTH H, 6-7 mi South of	Mondovi

Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST.	WD	Buffalo	☒ Telephone ☐ In-Person	5/15/90 (M M D D Y Y)	1330

Facility Representative Contacted	Title or Position of Representative	Telephone Number (include area code)
Dennis Brion	Mondovi F.D.	(715) 926-3185

I called Dennis to verify and clarify Bill's report. Dennis said that the F.D. notified the Lueptows that they would have to remove the tanks and follow DILHR regs in the process. Dennis made this notification last week.

This week Dennis observed the pulled tanks with holes and reported this info to Bill Evans.

Dennis reported that he felt the Lueptows didn't believe the F.D. didn't have the authority ~~to make them follow~~ that requires them to have certified people do the work.

Dennis reported that he feels the Lueptows will follow the letter of the law now.

Check if additional sheets attached ☐

By RB

FILE NOTE

Facility/Company Name	Location (Address or ¼¼)	City, State, Zip Code
Lueptow Property	CTH "H" 6-7 mi S. of	Mondovi, WI

Facility Type	District	County	Contact Method	Date	Time (24-Hour Clock)
LUST.	WD	Buffalo	☒ Telephone ☐ In-Person	5/15/91 (M M D D Y Y)	1315

Facility Representative Contacted	Title or Position of Representative	Telephone Number (include area code)
Bill Evans	DNR	( )

Bill received a report from Mondovi F.D. rep. Dennis Brion that 2 tanks (~ 500 & 250 gal) were removed by the owners from a former grocery store S. of Mondovi. The tanks had holes and had been out of service for a long time. The tanks are on the DILHR Registery.

The property is owned by Robert & Connie Lueptow. The Lueptow's home phone is (715) 946-3550, Connies work phone is (715) 926-4962. Dennis Brion's work # is (715) 926-3185

Check if additional sheets attached ☐

By RB

Department of Natural Resources

LEAKING UNDERGROUND STORAGE TANK (Case Tracking)
Form 4400-146 3-91

Site Name: Lueptow Property
District: Western County: Buffalo
Address: CTH H 6-7 miles South of Mondovi
PMN: FID:
Proj Mgr: Tim Baker
Legal Municipality: Mondovi
Support Person:
Legal Desc: 1/4 1/4 Sec T R E/W

Date of Initial Contact: 5/15/91 Date of Letter: 5/15/91 Date Site Closure Approved: / /

Status
_____ 1 = State Lead
X 2 = RP Lead

Priority Screening
_____ 1 = High
_____ 2 = Medium
_____ 3 = Low
X 4 = Unknown

Score: _____ . _____

Funding Source
X 1 = RP
_____ 2 = LTF
_____ 3 = EF
_____ 4 = SF
_____ 5 = None
_____ 6 = Other (Describe In Comments)
_____ 7 = EPA (Emergency Resp)

PECFA Review Requested
(√) _____ Yes _____ No

Date PECFA Request Received
(mm/dd/yy) _____/_____/_____

Lust Trust Eligible
X 1 = Federal
_____ 2 = Non-Federal

CASE STATUS

(√) As Appropriate	Date Initiated (mm/dd/yy)	Date Completed (mm/dd/yy)	Comments
_____ No Action Taken (N)			
_____ Emergency (E)	/ /	/ /	
_____ Emergency Response (R)	/ /	/ /	
_____ Field Investigation (I)	/ /	/ /	
_____ Remedial Action (C)	/ /	/ /	
_____ Long Term Monitoring (L)	/ /	/ /	

(√) All Appropriate	Known Impacts (√)	Potential Impacts (√)
_____ Fire/Explosion Threat (1)		
_____ Contaminated Private Well (2)		
_____ Contaminated Public Well (3)		
_____ Groundwater Contamination (4)		X
_____ Soil Contamination (5)		X
_____ Other: (6) _____		

Substances (√)
_____ Leaded Gas(1)
_____ Unleaded Gas (2)
_____ Diesel (3)
_____ Fuel Oil (4)
X Unknown Hydrocarbons (5)
_____ Other (8) _____
_____ VOCS (6)
_____ Pesticide (7)
Quantity Discharged _____

Responsible party
Name: Robert & Connie Lueptow
Address: W448 CTH Z
Mondovi, WI 54755
Telephone: 715 / 946-3550
(list additional on separate list and attach.)

Consultant: _____
Contact: _____
Address: _____
_____
Telephone: _____/_____
Amount Committed: $_____ . _____
Amount Spent: $_____ . _____
(list additional on separate list and attach.)

ENFORCEMENT ACTION TAKEN

01 = Inf. Contact, Resp Initiated
02 = RP Letter, Resp Initiated
03 = NTC of Non Compliance
04 = Inf. Enf. Conf, Resp Initiated
05 = Follow-up Enf. Conf, Resp Initated
06 = Inspection Letter
07 = Response Received
08 = Adequate Response
09 = Progress Being Made
10 = Defer Enforcement
11 = Close Out
12 = Recommend NFA
13 = FWD to Secondary Enf
14 = Notice of Violation
15 = Formal Enf Conf
16 = Enf Conf. Letter
17 = Admin. Order Proposed
18 = Admin. Order Final
19 = Admin. Order Modified
20 = Admin. Order Cancelled
21 = Contest Case Hearing
22 = Draft Referral
23 = Referral to DOJ
24 = Referral to DA
25 = Referral to EPA
26 = Continuing Violation
27 = See Next Violation
28 = Site Inspection
99 = Other Action: _____

ACTION (code from above)	DATE (mm/dd/yy)	COMMENT
02	05/28/91	RP called
03	07/11/91	request response by 8-16-91

(list additional on separate list and attach.)

HIGH FACTORS: (DEFINITION: Any case which presents an actual threat to human health, or has a high potential of causing a threat to human health and property; and/or any case which has caused or has a high potential of causing substantial impacts to the soil waters and air of the State of Wisconsin.)

____ Contaminated private or public well >NR140 enf. std.
____ Explosive or toxic vapors in structures
____ Threat of fire

HIGH OR MEDIUM FACTORS: (write in choice of high or medium)
____ Floating product (medium if no receptors within 1 mile)
____ Known gw contamination (private or public well <140 enf. std.)
____ Impacted surface water - -wetland, trout stream, etc. impacted
____ Saturated soil contamination

MEDIUM FACTORS: (DEFINITION: Any case which does not appear to be an immediate threat to human health or vital natural resources but which shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)

____ Moderate (e.g. 100 - 500 ppm TPH) soil contamination with moderate potential for impacting groundwater.
____ Impacted surface water - - no critical habitat threats.

LOW FACTORS: DEFINITION: Any case where contamination has been documented, but which presents limited potential for any immediate threat to human health and vital natural resources.)

____ Soil contamination (e.g. less than 100 ppm TPH) which appears to have a limited potential for impacting groundwater.
____ Initial remedial action has substantially reduced environmental threat.

UNKNOWN FACTOR: (DEFINITION: Any case where some indication of contamination is present, but due to incomplete or inaccurate information the level of threat to human health or the environment can not be assessed at this time.)

____ Inadequate information to assign a high, medium, or low ranking.

OVERALL RANKING: The screening rank for the site along with the date of ranking. This may be updated when additional information is received. Special circumstances for a particular case may be taken into account in the comment section. The District LUST coordinator may independently set the ranking of a site based upon "special circumstances."

Circle one & date, indicate in priority screening box opposite side _____ HIGH _____ MEDIUM _____ LOW _____ UNKNOWN

Overall Site Comment: _____

NUMERICAL LUST SCORING WORKSHEET (Complete for LUST cases ranked HIGH)

1. GROUNDWATER & SOILS: (circle one)

POINTS	
20	Municipal Well
18	>5 private wells
16	4 - 6 private wells
14	2 - 3 private wells
12	1 private well

_____ SCORE

POINTS	
8	Soil & gw within 1200' of a public well
6	Soil & gw within 1200' of one or more private wells
4	GW contamination, no wells within 1200'
2	Soil contamination

*For purposes of this scoring, private well includes any non-municipal water supply system.

2. EXPLOSIVE OR TOXIC VAPORS: (circle one)

POINTS CONFIRMED	POTENTIAL	
20	10	Explosive levels in a residence or building
	8	Explosive levels in a sewer or structure
12	6	Toxic levels in a residence or building

NOTE: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)

_____ SCORE

3. HYDROGEOLOGIC SETTING: (circle one)

POINTS	
12	Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 feet of the ground surface.
10	Permeable stratigraphy and groundwater greater than 25 feet below ground surface.
8	Moderately permeable stratigraphy (silty sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface .
6	Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface.
4	Impermeable stratigraphy (silt, clayey silt, sand clays) and groundwater within 25 feet of ground surface.
2	Impermeable stratigraphy and groundwater greater than 25 feet below ground surface.

_____ SCORE

4. TYPE OF PRODUCT: (circle one)

POINTS	
8	Gasoline, mixture of gasoline and other products, other light petroleum products.
6	Diesel, fuel oil.
2	Bunker oil, other heavy oils or crude fractions.

_____ SCORE

List Additional Responsible Party Names Here:

Responsible Party Name: _____ Responsible Party Name: _____

Address: _____ Address: _____

_____ _____

Phone: ___/___ Phone: ___/___

Responsible Party Name: _____ Responsible Party Name: _____

Address: _____ Address: _____

_____ _____

Phone: ___/___ Phone: ___/___

List Additional Consultants Here:

Consultant: _____ Consultant: _____

Contact: _____ Contact: _____

Address: _____ Address: _____

_____ _____

Phone: ___/___ Phone: ___/___

Amount Committed: $_____._____ Amount Spent: $_____._____ Amount Committed: $_____._____ Amount Spent: $_____._____

List Additional Enforcement Actions Here:

Action Code	Date (mo/day/yr)	Comment
14	8 / 22 / 91	req. response by 8-29-91
07	9 / 1 / 91	consulting atty. / √ around 11-1-91
99	4 / 6 / 95	Prod - response req. by 5-6-95
____	___ / ___ / ___	
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