Letter of Transmittal

Submitted to:

Lee Delcore

WI. Dept. of Natural Resources
1155 Pilgrim Parkway
PlymouthWI5 3073

Date:
5/8/2017

Job:
Kewaskum Living Waters Church

◉Attached

◉Under Separate Cover

Contents:
Well Abandonment Forms and revised pages 4 & 6 of the Case Closure - GIS Registry Form which now gives an estimated volume of the direct contact Lead found in soil boring G-6.
BRRTS #: 03-67-152319

Remarks:
Attached are the well abandonment forms as requested in your email correspondence dated 4/17/17. No investigative waste remains on-site. Pages 4 and 6 of the Case Closure - GIS Registry Form have been revised and are also included. Once you have reviewed this information please forward the "Final Closure" letter to the RP and METCO.

If you have any questions please call or email.

Signed: Jason Powell

cc: Joan Brath - Kewaskum Living Waters Church

METCO
709 Gillette St., Ste 3
La Crosse, WI 54603-2382
(608)781-8879 fax (608)781-8893

air sample to be collected over a 24 hour period for VOC analysis. (Letter Report - January 14, 2016)

On June 23, 2015, and September 15, 2015, METCO personnel collected groundwater samples from the three monitoring wells for laboratory analysis. Field measurements for Water Level, Dissolved Oxygen, pH, ORP, Specific Conductivity and Temperature were collected from all sampled wells. (Letter Report - January 14, 2016)

On May 12, 2016, and August 24, 2016, METCO personnel collected groundwater samples from the three monitoring wells for laboratory analysis. Field measurements for Water Level, Dissolved Oxygen, pH, ORP, Specific Conductivity and Temperature were collected from all sampled wells. (Groundwater Monitoring Report - October 4, 2016)

On November 3, 2016, METCO collected soil samples from two hand auger borings. One soil sample was collected from each boring to be analyzed for Lead. (Activity undertaken since the last submittal)

ii. Identify whether contamination extends beyond the source property boundary, and if so describe the media affected (e.g., soil, groundwater, vapors and/or sediment, etc.), and the vertical and horizontal extent of impacts.
Based on historical and current data, soil contamination exceeding the NR720 Groundwater RCL's and groundwater contamination exceeding the NR140 Enforcement Standards (ES) does not appear to extend beyond the source property boundary.

iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.
No structural impediments interfered with the completion of the site investigation.

B. Soil

i. Describe degree and extent of soil contamination. Relate this to known or suspected sources and known or potential receptors/migration pathways.
An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL's, exists in the area of the removed UST system. This consists of an irregular shaped area, which appears to measure up to 34 feet long, up to 22 feet wide (depending on location), and up to 3 feet thick.

Additionally, an area of unsaturated soil contamination, which exceeds the NR720 Non-Industrial Direct Contact values for Lead (showed no detects for any PVOC/Naphthalene contaminants), exists near the east central corner of the building (G-6), close to the drip line of the building. This contamination appears to be located specifically around the location of Geoprobe G-6, which is approximately 20 feet southwest of the removed UST. This value does not reflect the Lead levels that were encountered near the removed UST area. This contamination is likely from a separate source, most likely something from the roof as this contamination is below the roof drip line. Two hand auger soil samples were collected within 10 feet of this location and also do not reflect the Lead values that were shown in G-6. Therefore, this direct contact for Lead contamination is very limited in its horizontal and vertical extent and its estimated volume is approximately 5 cubic yards (7 tons).

The extent of petroleum contamination in soil exceeding the NR720 Groundwater RCL's does come into contact with a sewer lateral line and a natural gas line which extend from Clinton Street to the on-site building. However, soil contamination in the areas of these laterals are from Lead exceedances (G-5 and G-6). Therefore, these utilities do not appear to be preferential contaminant migration pathways.

ii. Describe the concentration(s) and types of soil contaminants found in the upper four feet of the soil column.
Soil samples collected within the upper four feet of the soil column exceeding the NR720 Groundwater or Direct Contact RCL's include:

G-1-1: Lead (40.9 ppm) and Benzene (0.053 ppm) at 3.5 feet bgs
G-5-1: Lead (41.4 ppm) at 3.5 feet bgs
G-6-1: Lead (617 ppm) at 3.5 feet bgs
HA-2: Lead (101 ppm) at 2.5 feet bgs

iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site. This includes a soil performance standard established in accordance with s. NR 720.08, a Residual Contaminant Level (RCL) established in accordance with s. NR 720.10 that is protective of groundwater quality, or an RCL established in accordance with s. NR 720.12 that is protective of human health from direct contact with contaminated soil. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/ information in Attachment C.
The method used to establish the soil cleanup standards for this site were the NR720 RCL's. The property is zoned "B-3, Central Business", therefore non-industrial standards were used for this site.

C. Groundwater

4. Remedial Actions Implemented and Residual Levels at Closure

A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.

No remedial actions were completed.

B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.

No interim actions were completed.

C. Describe the *active* remedial actions taken at the source property, including: type of remedial system(s) used for each media affected; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.

No remedial actions were completed.

D. Describe the alternatives considered during the Green and Sustainable Remediation evaluation in accordance with NR 722.09 and any practices implemented as a result of the evaluation.

No evaluation of Green and Sustainable Remediation was conducted.

E. Describe the nature, degree and extent of residual contamination that will remain at the source property or on other affected properties after case closure.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL's, exists in the area of the removed UST system. This consists of an irregular shaped area, which appears to measure up to 34 feet long, up to 22 feet wide (depending on location), and up to 3 feet thick.

Additionally, an area of unsaturated soil contamination, which exceeds the NR720 Non-Industrial Direct Contact values for Lead (showed no detects for any PVOC/Naphthalene contaminants), exists near the east central corner of the building (G-6), close to the drip line of the building. This contamination appears to be located specifically around the location of Geoprobe G-6, which is approximately 20 feet southwest of the removed UST. This value does not reflect the Lead levels that were encountered near the removed UST area. This contamination is likely from a separate source, most likely something from the roof as this contamination is below the roof drip line. Two hand auger soil samples were collected within 10 feet of this location and also do not reflect the Lead values that were shown in G-6. Therefore, this direct contact for Lead contamination is very limited in its horizontal and vertical extent and its estimated volume is approximately 5 cubic yards (7 tons).

A dissolved phase contaminant plume exceeding the NR140 ES and/or PAL has formed at the watertable in the area of the removed UST system and has migrated toward the southeast. This plume is approximately 53 feet long and 37 feet wide.

Based on historical and current data, soil contamination and groundwater contamination exceeding the NR140 ES does not appear to extend beyond the source property boundary.

F. Describe the residual soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds RCLs established under s. NR 720.12, Wis. Adm. Code, for protection of human health from direct contact.

The only residual soil contamination remaining within the upper four feet of the soil column exceeding the NR720 Non-Industrial Direct Contact RCL's is from Geoprobe G-6: Lead (617 ppm) at 3.5 feet bgs.
Its important to note that this contamination is likely from a separate source, most likely something from the roof as this contamination is below the roof drip line (showed no detects for any PVOC/Napthalene contaminants).

G. Describe the residual soil contamination that is above the observed low water table that attains or exceeds the soil standard(s) for the groundwater pathway.

Soil samples above the observed low water table which currently exceed NR720 RCLs include:
G-1-1: Lead (40.9 ppm) and Benzene (0.053 ppm) at 3.5 feet bgs
G-5-1: Lead (41.4 ppm) at 3.5 feet bgs
G-6-1: Lead (617 ppm) at 3.5 feet bgs
HA-2: Lead (101 ppm) at 2.5 feet bgs

H. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.

Per conversations with the WDNR, a Cap Maintenance Plan will not be necessary to address the Direct Contact concern at G-6, as this contamination is very limited in its horizontal and vertical extent and its estimated volume is approximately 5 cubic yards (7 tons), which was defined by the hand auger soil samples collected at HA-1 and HA-2. Remaining soil and groundwater contamination will be addressed via natural attenuation.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
WASHINGTON	___ ___ ___VN076_	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

43 ° 31.12 . ___ ___ ___ 'N

88 ° 13.67 . ___ ___ ___ 'W

¼ / ¼	¼	Section	Township	Range	
NW	SE	9	12 N	19	[X] E ☐ W

or Gov't Lot #

Well Street Address: 100 Clinton Street

Well City, Village or Town	Well ZIP Code
Kewaskum	53040-

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Sampling Complete	___ ___ ___ ___ ___

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 12/11/2013

If a Well Construction Report is available, please attach.

Construction Type:

[X] Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
13	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	3

Was well annular space grouted? [X] Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
2	3.26

2. Facility / Owner Information

Facility Name: Kewaskum Living Waters Church

Facility ID (FID or PWS): 267161620

License/Permit/Monitoring #:

Original Well Owner: Joan Brath

Present Well Owner: Joan Brath

Mailing Address of Present Owner: 100 Clinton Ave.

City of Present Owner	State	ZIP Code
Kewaskum	WI	53040-

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	☐ Yes	[X] No	☐ N/A
Casing left in place?	[X] Yes	☐ No	☐ N/A
Was casing cut off below surface?	[X] Yes	☐ No	☐ N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	[X] Yes	☐ No	☐ N/A

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Lbs.	
Bentonite chips	Surface	13	21	

6. Comments

Monitoring Well MW-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Jon Jensen/METCO		4/25/2017

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

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		4/25/2017

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
WASHINGTON	___ ___ ___VN077_	

Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions)

43 ° 31.12 . ___ ___ ___ 'N

88 ° 13.67 . ___ ___ ___ 'W

¼ / ¼	¼	Section	Township	Range	
NW	SE	9	12 N	19	[X] E ☐ W

or Gov't Lot #

Well Street Address: 100 Clinton Street

Well City, Village or Town	Well ZIP Code
Kewaskum	53040-

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Sampling Complete	___ ___ ___ ___ ___

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 12/11/2013

If a Well Construction Report is available, please attach.

Construction Type:

[X] Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
13	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	3

Was well annular space grouted? [X] Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
2	3.17

2. Facility / Owner Information

Facility Name: Kewaskum Living Waters Church

Facility ID (FID or PWS): 267161620

License/Permit/Monitoring #:

Original Well Owner: Joan Brath

Present Well Owner: Joan Brath

Mailing Address of Present Owner: 100 Clinton Ave.

City of Present Owner	State	ZIP Code
Kewaskum	WI	53040-

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	☐ Yes	[X] No	☐ N/A
Casing left in place?	[X] Yes	☐ No	☐ N/A
Was casing cut off below surface?	[X] Yes	☐ No	☐ N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	[X] Yes	☐ No	☐ N/A

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Lbs.	
Bentonite chips	Surface	13	21	

6. Comments

Monitoring Well MW-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Jon Jensen/METCO		4/25/2017

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

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Jon Jensen	4/25/2017

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
WASHINGTON	___ ___ ___VN078_	

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

43 ° 31.12 . ___ ___ ___ 'N

88 ° 13.67 . ___ ___ ___ 'W

¼ / ¼	¼	Section	Township	Range	
NW	SE	9	12 N	19	[X] E ☐ W

or Gov't Lot #

Well Street Address: 100 Clinton Street

Well City, Village or Town	Well ZIP Code
Kewaskum	53040-

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Sampling Complete	___ ___ ___ ___ ___

3. Well / Drillhole / Borehole Information

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

Original Construction Date (mm/dd/yyyy): 12/11/2013

If a Well Construction Report is available, please attach.

Construction Type:
[X] Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
13	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	3

Was well annular space grouted? [X] Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
2	3.34

2. Facility / Owner Information

Facility Name: Kewaskum Living Waters Church

Facility ID (FID or PWS): 267161620

License/Permit/Monitoring #:

Original Well Owner: Joan Brath

Present Well Owner: Joan Brath

Mailing Address of Present Owner: 100 Clinton Ave.

City of Present Owner	State	ZIP Code
Kewaskum	WI	53040-

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	☐ Yes	[X] No	☐ N/A
Casing left in place?	[X] Yes	☐ No	☐ N/A
Was casing cut off below surface?	[X] Yes	☐ No	☐ N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	[X] Yes	☐ No	☐ N/A

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 ☐ Clay-Sand Slurry (11 lb./gal. wt.)
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☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Lbs.	
Bentonite chips	Surface	13	21	

6. Comments

Monitoring Well MW-3

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Jon Jensen/METCO		4/25/2017

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

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Jon Jensen	4/25/2017

DNR Use Only

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