43

NEWFIELDS

June 20, 2011

Janet DiMaggio
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711

RECEIVED
JUN 21 2011
DNR R & R
SOUTH CENTRAL REGION

RE: Well Abandonment Documentation
FID No. 114010820
HACCO, Inc.- Randolph, Wisconsin
NewFields Project No. 0343-004-800

Dear Ms. DiMaggio:

Please find attached completed well abandonment forms for four wells (MW-7A, MW-7B, MW-17AR, and MW-17B) approved for abandonment by WDNR in a letter dated April 2, 2011. Original well construction forms for each well are also attached.

All wells were abandoned on May 25, 2011. However, the protective casing for well MW-17AR could not be removed at that time. This well was constructed with 15 feet of steel 6-inch diameter casing grouted in place. Badger State Drilling could not pull this casing on May 25th, so they returned to the site on June 3rd and attempted to over drill the casing with large diameter augers. The augers could only be advance several feet, but the steel casing was cut off 30-inches below grade in accordance with well abandonment requirements. Asphalt path was also placed at the former MW-7 well nest at the time; heavy rain on May 25th washed away asphalt patch placed at that time.

Should you have any questions or comments, please contact me at (608) 442-5223, ext. 503.

Sincerely yours,

NEWFIELDS

Mark S. McColloch

Mark S. McColloch, P.G.
Senior Geologist

cc: Randall Yaroch, HACCO

msm/projects_MSM/hacco2011\Well_Aban_Doc_June_11_Cov_ltr

NEWFIELDS
2110 LUANN LANE, SUITE 101
MADISON, WISCONSIN 53713
(608) 442-5223
(608) 442-9013 FAX
www.newfields.com

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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.

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☑ Remediation/Redevelopment ☐ Other:

1. General Information

WI Unique Well No.	
DNR Well ID No.	
County	Dodge
Common Well Name	MW-7A
Gov't Lot # (if applicable)	
1/4 / 1/4	SW
1/4	NE
Section	6
Township	12 N
Range	13 ☑ E ☐ W
Grid Location	
Feet	☐ N ☐ S
Feet	☐ E ☐ W
☐ Local Grid Origin ☐ (estimated) OR ☐ Well Location	
Latitude: DEG MIN SEC N	
Longitude: DEG MIN SEC W	
Reason For Abandonment	WDNR approval to remove from monitoring program.
WI Unique Well No of Replacement Well	

2. Facility Owner Information

Facility Name	Hacco - Randolph, WI
Facility ID	FID #114010820
License/Permit/Monitoring No.	
City, Village or Town	Randolph
Street Address of Well	110 Hopkins Drive
Present Well Owner	Hacco
Original Well Owner	Hacco
Street Address or Route of Owner	110 Hopkins Drive
City	Randolph
State	Wisconsin
Zip Code	53956-1316

3. Well / Drillhole / Borehole Information

☑ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date: April 14, 1989

If a Well Construction Report is available, please attach. *(See attached)*

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☐ Unconsolidated Formation ☑ Bedrock

Total Well Depth From Ground Surface (ft.)	37.6
Casing Diameter (in.)	2
Lower Drillhole Diameter (in.)	
Casing Depth (ft.)	39.6 from top of PVC casing
Was well annular space grouted?	☑ Yes ☐ No ☐ Unknown
If yes, to what depth (feet)?	from 2 to 25 feet below ground surface
Depth to Water (feet)	19.2 from top of PVC casing

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

Required Method of Placing Sealing Material
☑ Conductor Pipe-Gravity ☑ Conductor Pipe Pumped
☐ Screened and Poured (Bent. Chips) ☐ Other (Explain):

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

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

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt patch	0	0.5		
Bentonite chips	0.5	3	50 pounds	
Bentonite - cement grout	3	37.6	20 gallons	

6. Comments

Mixed three 94-pound bags of portland cement and 75 pound of bentonite gel with 80 gallons of water for MW-17AR and MW-17B.

Returned to the site on June 3, 2011 to install asphalt patch.

7. Supervision of Work

Name of Person of Firm Doing Sealing Work	Date of Abandonment	Date Received	Noted By
Badger State Drilling	May 25, 2011		
Street or Route	Telephone Number	Comments	
360 Business Park Circle	608/877-9770		

City	State	Zip Code	Signature of Person Doing Work	Date Signed
Stoughton	Wisconsin	53589-3395	Mike R McCabe	6/20/2011

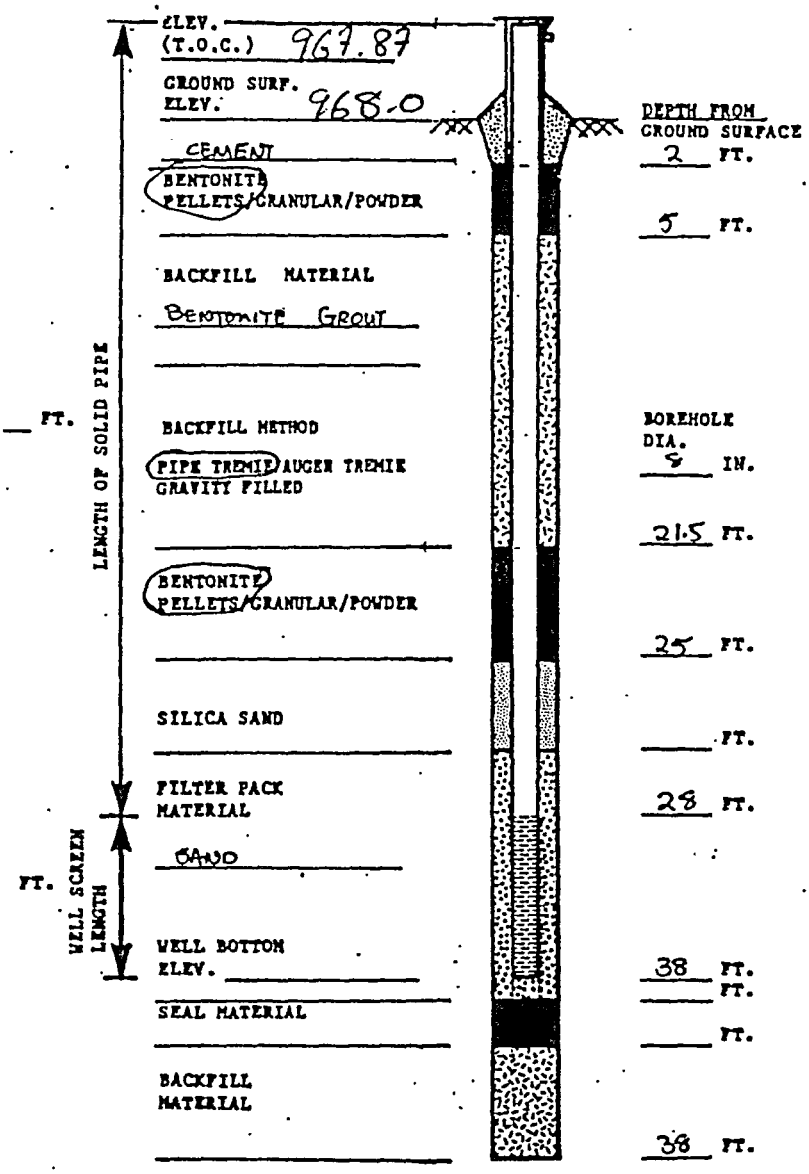
11 Diagram
17 (R 11-85)

PROJECT NAME: Hopkins Ag Chem NO. 1064.09

WELL NO. MW-7A

DATE INSTALLED 4/14/89

✓ASM 7/20/85



1) CASING DETAILS

A) TYPE OF PIPE:

(PVC) STAINLESS, TEFLON, OTHER _____

PIPE SCHEDULE _____

B) TYPE OF PIPE JOINTS;

COUPLINGS, (THREADED) (W/TAPE?), OTHER _____

C) WAS SOLVENT USED? YES OR (NO)

D) TYPE OF WELL SCREEN:

(PVC) STAINLESS, TEFLON, OTHER _____

E) WELL SCREEN SLOT SIZE 0.010

F) PIPE DIA: ID IN. 2 OD IN. ____

G) INSTALLED PROTECTOR PIPE W/LOCK? YES OR (NO) → FLUSH MOUNT W/ LOCKING CAP

PROTECTOR PIPE DIA. ____ IN.

2) WELL DEVELOPMENT

A) METHOD

BAILING, (PUMPING) SURGING, COMPRESSED AIR

OTHER _____

(NOTE ADDITIONAL COMMENTS BELOW)

B) TIME SPENT FOR DEVELOPMENT? 2.5 hrs

C) APPROXIMATE WATER VOLUME: REMOVED 45 GALS

ADDED _____

D) WATER CLARITY BEFORE DEVELOPMENT?

CLEAR, (TURBID) OPAQUE

E) WATER CLARITY AFTER DEVELOPMENT?

CLEAR, SLIGHTLY TURBID, (TURBID) OPAQUE

F) ODOR? (YES) OR NO

3) WATER LEVEL SUMMARY

A) DEPTH FROM TOP OF CASING AFTER DEVELOPMENT?

22.75 FT. OR DRY

B) OTHER MEASUREMENTS (T.O.C.):

DATE/TIME _____ FT.

DATE/TIME _____ FT.

DATE/TIME _____ FT.

ADDITIONAL COMMENTS: NOTICED SLIGHT SOLVENT ODOR WHILE BAILING

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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.

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☑ Remediation/Redevelopment ☐ Other:

1. General Information

WI Unique Well No.	
DNR Well ID No.	
County	Dodge
Common Well Name	MW-7B
Gov't Lot # (if applicable)	
1/4 / 1/4	SW
1/4	NE
Section	6
Township	12 N
Range	13 ☑ E ☐ W
Grid Location Feet	☐ N ☐ S
Feet	☐ E ☐ W
☐ Local Grid Origin ☐ (estimated) OR ☐ Well Location	
Latitude: DEG MIN SEC N	
Longitude: DEG MIN SEC W	
Reason For Abandonment	WDNR approval to remove from monitoring program.
WI Unique Well No of Replacement Well	

2. Facility Owner Information

Facility Name	Hacco - Randolph, WI
Facility ID	FID #114010820
License/Permit/Monitoring No.	
City, Village or Town	Randolph
Street Address of Well	110 Hopkins Drive
Present Well Owner	Hacco
Original Well Owner	Hacco
Street Address or Route of Owner	110 Hopkins Drive
City	Randolph
State	Wisconsin
Zip Code	53956-1316

3. Well / Drillhole / Borehole Information

☑ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date: April 13, 1989

If a Well Construction Report is available, please attach. *(See attached)*

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☐ Unconsolidated Formation ☑ Bedrock

Total Well Depth From Ground Surface (ft.): 60.4

Casing Diameter (in.): 2

Lower Drillhole Diameter (in.):

Casing Depth (ft.): 62.4 from top of PVC casing

Was well annular space grouted? ☑ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? from 2 to 50.3 feet below ground surface

Depth to Water (feet): 54 from top of PVC casing

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

Required Method of Placing Sealing Material
☑ Conductor Pipe-Gravity ☑ Conductor Pipe Pumped
☐ Screened and Poured (Bent. Chips) ☐ Other (Explain):

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

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

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt patch	0	0.5		
Bentonite chips	0.5	2	25 pounds	
Bentonite - cement grout	2	60.4	30 gallons	

6. Comments

Mixed two 94-pound bags of portland cement and 100 pound of bentonite gel with 50 gallons of water for MW-17AR and MW-17B.

Returned to the site on June 3, 2011 to install asphalt patch.

7. Supervision of Work

Name of Person of Firm Doing Sealing Work	Date of Abandonment	DNR Use Only: Date Received	Noted By
Badger State Drilling	May 25, 2011		
Street or Route	Telephone Number	Comments	
360 Business Park Circle	608/877-9770		

City	State	Zip Code	Signature of Person Doing Work	Date Signed
Stoughton	Wisconsin	53589-3395	Michael McCollish	6/20/2011

WMT INC

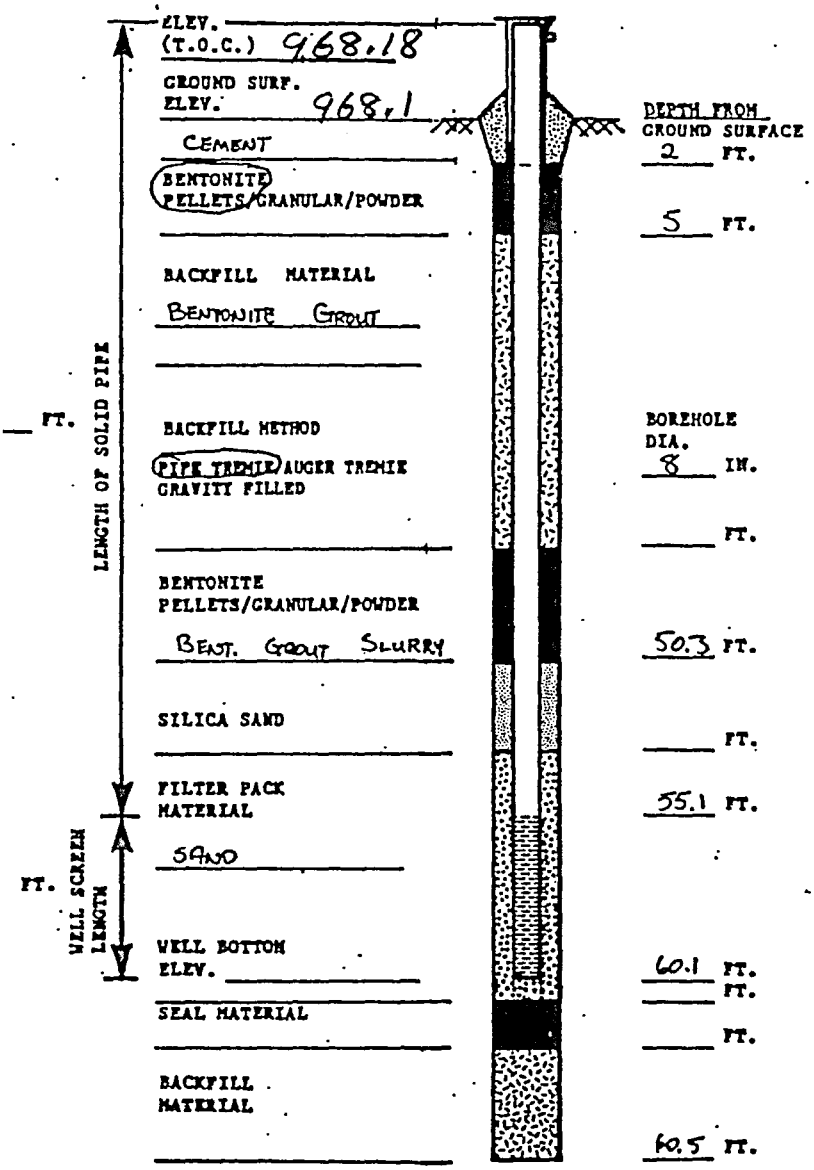
11 Diagram
17 (R 11-85)

PROJECT NAME: HOPKINS AG. CHEM NO. 1064.09

WELL NO. MW-7B

DATE INSTALLED 4/13/89

JASM 7/10/89



1) CASING DETAILS

A) TYPE OF PIPE:

(PVC) STAINLESS, TEFLON, OTHER _____

PIPE SCHEDULE _____

B) TYPE OF PIPE JOINTS;

COUPLINGS, (THREADED) (W/TAPE?), OTHER _____

C) WAS SOLVENT USED? YES OR (NO)

D) TYPE OF WELL SCREEN:

(PVC) STAINLESS, TEFLON, OTHER _____

E) WELL SCREEN SLOT SIZE 0.010

F) PIPE DIA: ID IN. 2 OD IN. _____

G) INSTALLED PROTECTOR PIPE W/LOCK? YES OR (NO)

PROTECTOR PIPE DIA. ____ IN. FLUSH MOUNT WITH LOCKING CAP.

2) WELL DEVELOPMENT

A) METHOD

(BAILING) PUMPING, SURGING, COMPRESSED AIR

OTHER _____

(NOTE ADDITIONAL COMMENTS BELOW)

B) TIME SPENT FOR DEVELOPMENT? 2.5 hrs

C) APPROXIMATE WATER VOLUME: REMOVED 18 GALS

ADDED _____

D) WATER CLARITY BEFORE DEVELOPMENT?

CLEAR, (TURBID) OPAQUE

E) WATER CLARITY AFTER DEVELOPMENT?

CLEAR, SLIGHTLY TURBID, (TURBID) OPAQUE

F) ODOR? YES OR (NO)

3) WATER LEVEL SUMMARY

A) DEPTH FROM TOP OF CASING AFTER DEVELOPMENT?

55.81 FT. OR DRY

B) OTHER MEASUREMENTS (T.O.C.):

DATE/TIME _____ FT.

DATE/TIME _____ FT.

DATE/TIME _____ FT.

ADDITIONAL COMMENTS: _____

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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.

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☑ Remediation/Redevelopment ☐ Other:

1. General Information

WI Unique Well No.	DNR Well ID No.	County
— — — — —		Dodge

Common Well Name	Gov't Lot # (if applicable)
MW-17AR	

1/4 / 1/4	1/4	Section	Township	Range
SW	NE	6	12 N	13 ☑ E ☐ W

Grid Location
Feet ☐ N ☐ S — Feet ☐ E ☐ W
☐ Local Grid Origin ☐ (estimated) OR ☐ Well Location
Latitude: DEG MIN SEC N — Longitude: DEG MIN SEC W

Reason For Abandonment: WDNR approval to remove from monitoring program.

WI Unique Well No of Replacement Well:

2. Facility Owner Information

Facility Name		
Hacco - Randolph, WI		
Facility ID	**License/Permit/Monitoring No.**	**City, Village or Town**
FID #114010820		Randolph

Street Address of Well: 110 Hopkins Drive

Present Well Owner	Original Well Owner
Hacco	Hacco

Street Address or Route of Owner: 110 Hopkins Drive

City	State	Zip Code
Randolph	Wisconsin	53956-1316

3. Well / Drillhole / Borehole Information

☑ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date: November 22, 1991
If a Well Construction Report is available, please attach. *(See attached)*

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☐ Unconsolidated Formation ☑ Bedrock

Total Well Depth From Ground Surface (ft.): 41.1
Casing Diameter (in.): 2
Lower Drillhole Diameter (in.): 6.00
Casing Depth (ft.): 45.2 from top of PVC casing

Was well annular space grouted? ☑ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? from 1 to 23 feet below ground surface
Depth to Water (feet): 21.2 from top of PVC casing

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

Required Method of Placing Sealing Material
☑ Conductor Pipe-Gravity ☑ Conductor Pipe Pumped
☐ Screened and Poured (Bent. Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11lb./gal. wt)
☐ Sand - Cement (Concrete) Grout ☐ Bentonite - Sand Slurry " "
☐ Concrete ☑ Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:
☑ Bentonite Chips ☑ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	0	10	150 pounds	
Bentonite - cement grout	10	41.1	20 gallons	

6. Comments

Mixed two 94-pound bags of portland cement and 100 pound of bentonite gel with 50 gallons of water for MW-17AR and MW-17B.

Returned to the site on June 3, 2011 remove 6-inch diameter protective well; cut off 30-inches below grade; also removed steel bumber posts.

7. Supervision of Work

Name of Person of Firm Doing Sealing Work	Date of Abandonment	DNR Use Only: Date Received	Noted By
Badger State Drilling	May 25, 2011		
Street or Route	**Telephone Number**	**Comments**	
360 Business Park Circle	608/877-9770		

City	State	Zip Code	Signature of Person Doing Work	Date Signed
Stoughton	Wisconsin	53589-3395	Mark A. McCollum	6/20/2011

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐ Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 4-90

Facility/Project Name: HACCO	Local Grid Location of Well: ____ ft. ☐N ☐S, ____ ft. ☐E ☐W	Well Name: MW-17AR
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. ____ Long. ____ or St. Plane 562784 ft. N, 226699 ft. E.	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12		Date Well Installed: 11/21/91 (m m d d y y)
Distance Well Is From Waste/Source Boundary: ~500 ft.	Section Location of Waste/Source: SW 1/4 of NE 1/4 of Sec. 6, T. 12 N, R. 13 ☒E ☐W	Well Installed By: (Person's Name and Firm) Sam's Rotary Well Drillers, Tim Vander Galien
Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient, s ☒ Sidegradient, d ☐ Downgradient, n ☐ Not Known	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 975.26 ft. MSL

C. Land surface elevation 972.04 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☒ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☒ 50; Hollow Stem Auger ☐ 41; Other ☐ ____

15. Drilling fluid used: Water ☐ 02; Air ☒ 01; Drilling Mud ☐ 03; None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis): _____

E. Bentonite seal, top _____ ft. MSL or 0.0 ft.

F. Fine sand, top _____ ft. MSL or 21.0 ft.

G. Filter pack, top _____ ft. MSL or 23.0 ft.

H. Screen joint, top _____ ft. MSL or 27.0 ft.

I. Well bottom _____ ft. MSL or 42.0 ft.

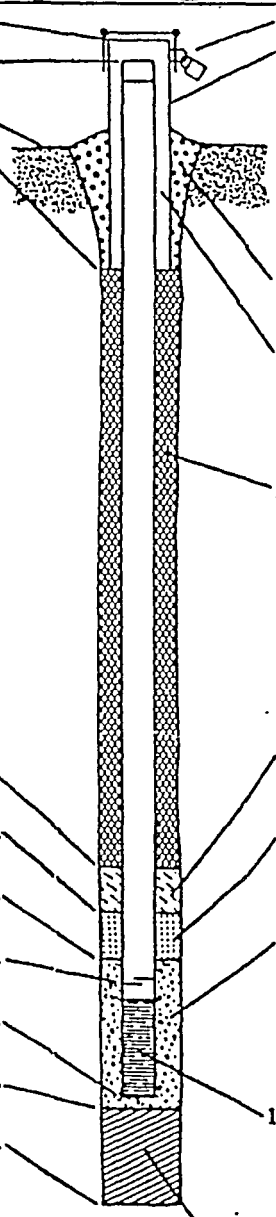
J. Filter pack, bottom _____ ft. MSL or 42.0 ft.

K. Borehole, bottom _____ ft. MSL or 42.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.2 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 6.0 in.
b. Length: 15. ft.
c. Material: Steel ☒ 04; Other ☐ ____
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Bumper Posts

3. Surface seal: Bentonite ☒ 30; Concrete ☐ 01; Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐ ____; Other ☐ ____

5. Annular space seal: a. Granular Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 6 bags ft³ volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. ____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. Best Sand - Fine
b. Volume added 0.35 ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. Red Flint - #30
b. Volume added 7.5 Bags ft³

9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ ____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ ____
b. Manufacturer Northern Air Supply
c. Slot size: 0.010 in.
d. Slotted length: 15.0 ft.

11. Backfill material (below filter pack): None ☒ 14; Other ☐ ____

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

Signature: Allen P. MacLean | Firm: RMT, Inc.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☑ Remediation/Redevelopment ☐ Other:

1. General Information

WI Unique Well No.	DNR Well ID No.	County
— — — — —		Dodge

Common Well Name	Gov't Lot # (if applicable)
MW-17B	

1/4 / 1/4	1/4	Section	Township	Range
SW	NE	6	12 N	13 ☑ E ☐ W

Grid Location
Feet ☐ N ☐ S Feet ☐ E ☐ W
☐ Local Grid Origin ☐ (estimated) OR ☐ Well Location
Latitude: DEG MIN SEC N
Longitude: DEG MIN SEC W

Reason For Abandonment: WDNR approval to remove from monitoring program.
WI Unique Well No of Replacement Well:

2. Facility Owner Information

Facility Name		
Hacco - Randolph, WI		
Facility ID	**License/Permit/Monitoring No.**	**City, Village or Town**
FID #114010820		Randolph

Street Address of Well: 110 Hopkins Drive

Present Well Owner	Original Well Owner
Hacco	Hacco

Street Address or Route of Owner: 110 Hopkins Drive

City	State	Zip Code
Randolph	Wisconsin	53956-1316

3. Well / Drillhole / Borehole Information

☑ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date: June 25, 1995
If a Well Construction Report is available, please attach. *(See attached)*

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☐ Unconsolidated Formation ☑ Bedrock

Total Well Depth From Ground Surface (ft.): 67.9
Casing Diameter (in.): 2
Lower Drillhole Diameter (in.): 6.00
Casing Depth (ft.): 70.7 from top of PVC casing

Was well annular space grouted? ☑ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? from 0.5 to 58 feet below ground surface
Depth to Water (feet): 57.5 from top of PVC casing

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

Required Method of Placing Sealing Material
☑ Conductor Pipe-Gravity ☑ Conductor Pipe Pumped
☐ Screened and Poured (Bent. Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11lb./gal. wt)
☐ Sand - Cement (Concrete) Grout ☐ Bentonite - Sand Slurry " "
☐ Concrete ☑ Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:
☑ Bentonite Chips ☑ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	0.5	6	50 pounds	
Bentonite - cement grout	3	67.9	35 gallons	

6. Comments

Mixed two 94-pound bags of portland cement and 100 pound of bentonite gel with 50 gallons of water for MW-17AR and MW-17B.

Also removed steel bumper posts.

7. Supervision of Work

Name of Person of Firm Doing Sealing Work	Date of Abandonment	DNR Use Only: Date Received	Noted By
Badger State Drilling	May 25, 2011		

Street or Route	Telephone Number	Comments
360 Business Park Circle	608/877-9770	

City	State	Zip Code	Signature of Person Doing Work	Date Signed
Stoughton	Wisconsin	53589-3395	Mark L McCulloch	6/20/2011

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: HACCO - RANDOLPH, WI	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW 17B
Facility License, Permit or Monitoring Number: ____	Grid Origin Location: Lat. ____ Long. ____ or	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☒ 12	St. Plane ____ ft. N, ____ ft. E.	Date Well Installed: 06/20/95 (m m d d y y)
Distance Well Is From Waste/Source Boundary: ____ ft.	Section Location of Waste/Source: ___1/4 of ___ 1/4 of Sec. ___, T. ___ N, R. ___ ☐E. ☐W.	Well Installed By: (Person's Name and Firm) RICK O'GORMAN, BOART-LONGYEAR (WI)
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient, s ☐ Sidegradient, d ☐ Downgradient, n ☐ Not Known	

A. Protective pipe, top elevation 974.48 ft. MSL

B. Well casing, top elevation 974.61 ft. MSL

C. Land surface elevation 971.7 ft. MSL

D. Surface seal, bottom 971.2 ft. MSL or 0.5 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☒ 50; Hollow Stem Auger ☒ 41; Other ☐ ____

15. Drilling fluid used: Water ☒ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☐ 99

16. Drilling additives used? ☐ Yes ☐ No

Describe ____

17. Source of water (attach analysis): RANDOLPH WATER SUPPLY

E. Bentonite seal, top 918.7 ft. MSL or 53.0 ft.

F. Fine sand, top 913.7 ft. MSL or 58.0 ft.

G. Filter pack, top 911.7 ft. MSL or 60.0 ft.

H. Screen joint, top 909.7 ft. MSL or 62.0 ft.

I. Well bottom 904.7 ft. MSL or 67.0 ft.
WELL POINT @ 67.9' BLS

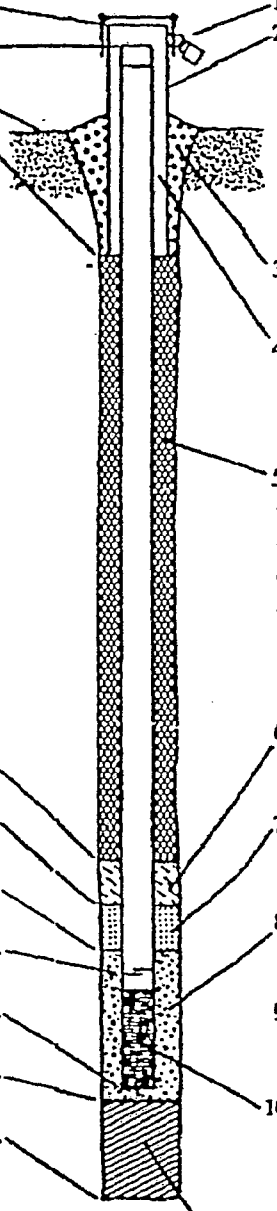
J. Filter pack, bottom 903.7 ft. MSL or 68.0 ft.

K. Borehole, bottom 903.2 ft. MSL or 68.5 ft.

L. Borehole, diameter 6.0 in.
8.25": 0'-17', 8": 17'-28', 6": 28'-68.5'

M. O.D. well casing 2.00 in.

N. I.D. well casing 1.90 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 7.0 ft.
c. Material: Steel ☒ 04; Other ☐ ____
d. Additional protection? ☒ Yes ☐ No
If yes, describe: 3-STEEL BUMPER POSTS

3. Surface seal: Bentonite ☒ 30; Concrete ☐ 01; Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐ ____; Other ☐ ____
#30 SAND 4 ft.

5. Annular space seal:
a. Granular Bentonite ☐ 33
b. ____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. 1.25 Lbs/gal mud weight ..... Bentonite slurry ☒ 31
d. ____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☒ 01; Tremie pumped ☐ 02; Gravity ☐ 08
AQUAGEL® - BENTONITE
100 gal H_2O - 7.5 BAGS 50 LBS

6. Bentonite seal:
a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. HOLEPLUG® - BENTONITE Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. BADGER MINING CORP. 70
b. Volume added 1 X 50 lb ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. RED FLINT, FILTER & ABRASIVE 30
b. Volume added 3 X 50 lb ft^3 GRADES

9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ ____
NORTHERN AIR

10. Screen material: Sch 40 PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ ____
b. Manufacturer NORTHERN AIR
c. Slot size: 0.010 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☐ 14; Other ☐ ____
NATIVE BEDROCK CUTTINGS

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

Signature: Neil P. Anderson
Firm: APPLIED ENVIRONMENTAL SCIENCES, INC.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.