State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-14

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/14/15	09/14/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
				0	2.25" I-14

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** BH-14 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Sand fill						M				
1	SS	6		1		SP									
				2	Rock refusal @ 2'										
				3											
				4											
				5											
				6											
				7											
				8											
				9											
				10											

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

Signature Scott J Blodo	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-15

Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair	**Date Drilling Started** 09/14/15	**Date Drilling Completed** 09/14/15	**Drilling Method** Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter** 2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** BH-15 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Fill sand	SP					M				
1	SS	18		1–5	**Fine to medium dark brown sand w/ large cobble**	GM			0.0 / 0.0						
2	SS	28		5–10	**Saturated** Fine sands w/ cobble and angular gravel	GM			0.0 / 0.0		W				
				10	**EOB @ 10'**										

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

Signature [signature]	**Firm** **REI Engineering, Inc.** 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-16

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/14/15	09/14/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒H-16 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	12		1–5	Fine to medium dark brown sand w/ large cobble	GM			0.0		M				
2	SS	20		5–10	Finer dark brown sand w/ small pebbles	SM			0.0		W				
				10	EOB @ 10'										

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

Signature Scott Bleda	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-17

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☒H-17 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
1	SS	28		1–4	**Fill - fine brown sand**	SM			0.0		M				
2	SS	36		5–9	**Fine brown/gray/red sand w/ cobbles and angular gravel** - Strong petroleum odor	GM			0.0 2.8						
3	SS	36		10–14	**Saturated** Fine brown sand w/ angular gravel and cobble				3694 106.7		W				
				15	**EOB @ 15'**										

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Signature Scott J Blado	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-18

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☒ BH-18 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N ☐ E ☐ S ☐ W ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
				1	Fill - fine brown sand w/ cobble						M				
1	SS	24		2 3 4		GM			0.0						
				5					0.0						
					Fine to medium brown to black sand w/ gray cobble and angular gravel										
2	SS	18		6 7 8 9		GM			0.0						
				10					0.0		W				
					EOB @ 10'										
				11 12 13 14 15											

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

Signature Scott Blade	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-19

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☒H-19 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Base coarse	GP					D				
1	SS	24		1–5	Fill - fine brown sand w/ cobble	SP			0.0 0.0		M				
2	SS	16		5–7	Fine to medium grain brown sand w/ trace small cobble/pebbles	GM			0.0						
3	SS	16		7–10	SAA w/ larger cobble	GP			0.0 0.0		W				
				10	EOB @ 10'										

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

Signature Scott J Bleck	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-20

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☒ BH-20 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N ☐ E ☐ S ☐ W ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
				1	Excavation fill - fine to medium brown sand w/ pebbles						M				
1	SS	24		2					0.0						
				3											
				4		SP									
				5					0.0						
2	SS	16		6					0.0						
				7											
				8	Red/brown finer sand w/ cobble										
3	SS	20		9		GM			0.0						
				10					0.0		W				
					EOB @ 10'										
				11											
				12											
				13											
				14											
				15											

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Signature Scott J Blade	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-21

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-21 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N ☐ E ☐ S ☐ W ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
1	SS	21		1–4	**Dark brown to black fine to medium sand w/ gravel and cobble**	SP			2.8		M				
				5					10.6						
2	SS	24		6–8					0.8						
				9	**Strong petroleum odor - oil?**										
				10	**Saturated**				2891		W				
3	SS	24		11–14	Finer brown sand w/ angular gravel	GM									
				15	**EOB @ 15'**										
				16–20											

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Signature Scott J Bleck	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-22A

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒H-22A **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Rock refusal @ 5'										
				1											
				2											
1	SS	0		3											
				4											
				5	EOB @ 5'										
				6											
				7											
				8											
				9											
				10											

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

Signature Scott J Blado	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-22B

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒H-22B **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
1	SS	18		1–4	Fine to medium brown to black sand w/ pebbles and angular gravel				67.8		M				
				5					3.0						
2	SS	27		5–9	Fine to medium brown sand w/ small gravel and trace cobble	GM			2502						
				9	SAA w/ strong petroleum odor				2348		W				
3	SS	36		10–14	Saturated Fine to medium brown sand w/ small gravel and pebbles - Oil spots, strong odor										
				14	SAA w/ large cobbles				1214		M				
				15	EOB @ 15'										

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Signature Scott J Blecha	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-23A

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-23A **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Rock refusal @ 5'										
1	SS	6							9.3						
				5	EOB @ 5'										

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

Signature [signature]	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-23B

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** BH-23B **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Rock refusal @ 3'						M				
				1					2.7						
				2											
1	SS	6													
				3	EOB @ 3'										
				4											
				5											
				6											
				7											
				8											
				9											
				10											

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

Signature Jett J Blado	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-23C

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-23C **State Plane** WI	**Lat** **Long**	**Local Grid Location** **N** ☐ **E** ☐ **S** ☐ **W** ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse						D				
				1	Red/brown fine to medium sand w/ small cobble						M				
1	SS	20		2					0.0						
				3											
				4											
				5					2.3						
					Brown fine to medium sand w/ organic matter (wood) and cobble										
				6											
				7											
2	SS	12		8					0.0						
				9											
				10					0.0		W				
					EOB @ 10'										
				11											
				12											
				13											
				14											
				15											

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

Signature Scott J Bledo	**Firm** **REI Engineering, Inc.** 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-23D

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-23D **State Plane** WI	**Lat** **Long**	**Local Grid Location** N ☐ E ☐ S ☐ W ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	6		1 2 3	Fine to medium dark brown sand Strong fuel oil odor	SP			2.6		M				
				4 5 6 7 8 9 10	Rock refusal @ 3.5'										

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

Signature Scott J Bleedo	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-23E

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-23E **State Plane** WI	**Lat** **Long**	**Local Grid Location** N ☐ E ☐ S ☐ W ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Rock refusal @ 3.5'										
				1											
1	SS			2					6.3						
				3											
					EOB @ 3.5'										
				4											
				5											
				6											
				7											
				8											
				9											
				10											

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

Signature Scott J. Blader	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-24

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-24 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N ☐ E ☐ S ☐ W ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
				1	**Red brown fine to medium sand w/ pebbles and gray cobble** Perched water present										
				2							W				
1	SS	33		3					0.0						
				4											
				5					0.0						
					Fine to medium brown sand w/ pebbles and trace cobble	GM									
				6											
				7											
2	SS	12		8											
				9							M-W				
				10					0.0						
					EOB @ 10'										
				11											
				12											
				13											
				14											
				15											

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

Signature Scott J Blodo	**Firm** **REI Engineering, Inc.** 4080 North 20th Avenue, Wausau, WI

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SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Tower Standard	BRRTS # 03-64-127899	BH-25

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
					2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☒ BH-25	Lat	Local Grid Location
State Plane WI	Long	N☐ E☐ S☐ W☐

Facility ID	County	County Code	Civil Town/City/or Village
764158560	Vilas	63	Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0	Asphalt base coarse										
1	SS	18		1–3	Brown fine to medium grain sand	SP			0.0		W				
				3–5	Gray brown fine sand/silt w/ cobble and angular gravel				0.0						
2	SS	18		5–9	Brown sandy silt w/ cobbles										
				9–10	Brown silty sand w/ pebbles	GM		▼	0.0		W				
3	SS	36		10–15	Saturated Brown sandy silt w/ angular gravel and some cobble				0.0						
				15–27	Blind drilled to 27' - Temp. well set and water sample collected										
				27	EOB @ 27'										

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

Signature	Firm
[signature]	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-26

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-26 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	**Asphalt base coarse**										
1	SS	18		1–4	**Brown, gray, black fine to medium sand w/ gravel and cobble**				14		M				
2	SS	18		5–9	**Brown fine to medium sand w/ gravel and cobble**	GM			4.2						
3	SS	12		10–14	**Saturated** Brown silty sand w/ angular gravel and cobble				1564 1312		W				
				15–30	**Blind drilled to 27' - temp. well set and water sample collected** **EOB @ 27'**										

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

Signature Scott J Bledo	**Firm** **REI Engineering, Inc.** 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-27

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒H-27 **State Plane** WI	**Lat** **Long**	**Local Grid Location** **N** ☐ **E** ☐ **S** ☐ **W** ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
1	SS	22		1–4	**Brown fine to medium sand w/ angular gravel, cobble**	SP			0.0		M				
				5					0.3						
2	SS	24		5–9	**Black silt w/ organic matter** **Saturated** Brown silty sand w/ angular gravels	OL GM			1.9						
				10					0.0		W				
3	SS	36		10–14		GM									
				15					0.0						
				15	**EOB @ 15'**										
				16–20											

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Signature Scott J. Bledo	**Firm** **REI Engineering, Inc.** 4080 North 20th Avenue, Wausau, WI

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SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-28

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/15/15	09/15/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-28 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N ☐ E ☐ S ☐ W ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
				1	Brown fine to medium sand w/ angular gravel						M				
1	SS	24		2											
				3					0.4						
				4											
				5					0.0						
				6											
				7											
2	SS	34		8		GM			0.5						
				9											
				10	SAA - Strong petroleum odor				1576		W				
				11	Saturated Brown sandy silts w/ cobble and angular gravel										
				12											
3	SS	24		13											
				14											
				15	EOB @ 15'				221						
				16											
				17											
				18											
				19											
				20											

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

Signature Jill J Blado	**Firm** **REI Engineering, Inc.** 4080 North 20th Avenue, Wausau, WI

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SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-29

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/16/15	09/16/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☒H-29 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	24		1–4	**Fine to medium grain brown fill sand**	SP			0.0		M				
				4–5	**SAA w/ large cobble**				0.0						
2	SS	28		5–10	**Coarse brown sand w/ pebbles** All soils saturated at 9'	GP			0.0 0.0		W				
3	SS	36		10–15					0.0						
4	SS	36		15–20					0.0						
				20	**EOB @ 20'**										

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Signature Scott J Bleck	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-30

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/16/15	09/16/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒H-30 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	17		1–4	**Fine to medium brown sand w/ angular gravel and cobble**	SP			0.0		M				
				5					0.0						
2	SS	0		5–9	**No recovery - rock**										
				10					0.0		W				
3	SS	24		10–13	**Saturated** Coarse brown sand	SP									
				13–14	**Saturated** Medium to coarse brown sand										
				15					0.0						
				15–25	**Blind drilled to 25' - temp. well set and water sample collected**										
				25–30	**EOB @ 25'**										

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

Signature Jill J Blair	**Firm** **REI Engineering, Inc.** 4080 North 20th Avenue, Wausau, WI

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SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-31A

Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair	**Date Drilling Started** 09/16/15	**Date Drilling Completed** 09/16/15	**Drilling Method** Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter** 2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** BH-31A **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Rock refusal @ 4.5'										
1	SS	0		1 2 3 4					0.0						
				5 6 7 8 9 10	EOB @ 4.5'										

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

Signature Jeff J Blado	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-31B

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/16/15	09/16/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** BH-31B **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
				1	**Black/brown fine to medium grain sand w/ pebbles**	GM					M				
1	SS	24		2	**Brown fine to medium sand w/ pebbles and cobble** Perched water at 8'				0.0						
				3											
				4											
				5					0.0						
2	SS	36		6											
				7											
				8	**Black organic sandy silt w/ wood**	OL					W				
				9					0.0		M				
				10	**EOB @ 10'**										
				11											
				12											
				13											
				14											
				15											

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

Signature Gitt J Blade	**Firm** **REI Engineering, Inc.** 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-32A

Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair	**Date Drilling Started** 09/16/15	**Date Drilling Completed** 09/16/15	**Drilling Method** Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter** 2.25

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** BH-32A **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
					Fine to medium brown sand w/ gravel and cobble						M				
1	SS	12		1 2 3 4		GM			0.0						
									7.1						
				5	Rock refusal @ 5'										
				6 7 8 9 10											

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

Signature Scott J Blodo	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Tower Standard	BRRTS # 03-64-127899	BH-32B

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Giles Engineering and Associates - Jim Blair	09/16/15	09/16/15	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
					2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location BH-32B	Lat	Local Grid Location
State Plane WI	Long	N☐ E☐ S☐ W☐

Facility ID	County	County Code	Civil Town/City/or Village
764158560	Vilas	63	Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
1	SS	10		1–5	Fine to medium brown sand w/ pebbles				5.0		M				
									6.3						
2	SS	18		5–10	Fine to medium brown sand w/ pebbles angular gravel, cobble and crushed rock	GM			1189						
									791		W				
				10	EOB @ 10'										

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

Signature	Firm
Scott J Blado	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-33

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/16/15	09/16/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-33 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N ☐ E ☐ S ☐ W ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
					Asphalt base coarse	GP					D				
1	SS	18		1–4	Fine to medium brown sand w/ trace cobble	GM			0.0		M				
				4–5					0.0						
2	SS	24		5–10	Fine to medium brown sand w/ cobble and angular gravel	GM			0.0						
				10	EOB @ 10'				0.5		W				

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

Signature Jeff J Bleck	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-34

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/16/15	09/16/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-34 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐	

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	24		1–5	**Brown fine to medium fill sand w/ pebble and cobble**	GM			0.0 0.0		M				
2	SS	34		5–8					0.0						
				8–10	**SAA w/ crushed red brick layer** Saturated at 9'	GP			0.2		W				
3	SS	36		10–13											
				13–15	**Lean brown silty clay**	CL			0.0		M				
4	SS	24		15–20	**Saturated** Coarse brown sand w/ cobble	SP			0.0		W				
				20	**EOB @ 20'**										

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

Signature	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-35A

Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair	**Date Drilling Started** 09/16/15	**Date Drilling Completed** 09/16/15	**Drilling Method** Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter** 2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** BH-35A **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	6		0–5	Fine to medium grain brown sand w/ angular gravel and cobble	GM			0.0		M				
				5	Rock refusal @ 5'										

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

Signature Jeff J Bledo	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-35B

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/16/15	09/16/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☒ BH-35B **State Plane** WI	**Lat** **Long**	**Local Grid Location** N ☐ E ☐ S ☐ W ☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	18		1–5	**Fine to medium grain brown sand w/ angular gravel and cobble**	GM			0.0		M				
2	SS	24		5–10	**Fine to medium grain brown sand w/ black silt seams and pebbles**	SM			0.2 70.3		W				
3	SS	24		10–15	**Saturated** Brown coarse sand w/ pebbles	SP			78.3 2.0 1.9 2.8						
				15	**EOB @ 15'**										

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

Signature Scott J Blade	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-36

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/16/15	09/16/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** BH-36 **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	8		1–5	**Fine to medium grain brown to black sand w/ angular gravel and cobble**	GM			0.0 0.0		M				
2	SS	4		5–10	**SAA w/ trace organic matter**	GM			0.1 0.0		W				
3	SS			10–13	**Saturated** Brown coarse sand w/ pebbles	SP									
				13–15	**Peat - black w/ wood**	PT			0.0						
4	SS			15–17	**Saturated** Black silty peat	PT									
				17–20	**Coarse gray brown sand with wood and pebbles**	OL			0.0						
				20–39	**Blind drilled to 39'** - Temp. well set and water sample collected										
				39–45	**EOB @ 39'**										

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

Signature [signature]	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-37A

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
Giles Engineering and Associates - Jim Blair	09/16/15	09/16/15	Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
					2.25"

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ BH-37A **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	20		1–5	Brown fine to medium sand w/ gravel and crushed rock	GM			0.0		M				
2	SS	12		6–10	Coarse sand w/ cobble/granite/pebbles Saturated at 6.5'	GP			0.0 0.0		W				
				10	Rock refusal @ 10'										

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

Signature Sally Blado	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS # 03-64-127899	**Boring Number** BH-37B

Boring Drilled By: Name of crew chief (first, last) and Firm Giles Engineering and Associates - Jim Blair	**Date Drilling Started** 09/16/15	**Date Drilling Completed** 09/16/15	**Drilling Method** Geoprobe

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter** 2.25"

Local Grid Orgin ☐ (estimated) ☐ or **Boring Location** BH-37B **State Plane** WI	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID 764158560	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Lac Du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	**Blind drill to 10'**						M				
				5					0.0						
				7							W				
				9					0.0						
1	SS	24		11	**Sandy silt w/ gravel seam** Saturated	SM									
				13	**Coarse brown sand w/ gravel** Saturated	SP									
				15	**Blind drill to 40'**				0.0						
				40	**EOB @ 40'**										

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

Signature [signature]	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-16

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
PSI - Joe Black	11/2/15	11/2/15	Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
		MW-16		0	8 inch

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☑	**Lat**	**Local Grid Location** N☐ E☐
State Plane	**Long**	S☐ W☐

Facility ID	**County** Vilas	**County Code** 64	**Civil Town/City/or Village** Town of Lac du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	SS			1	**Topsoil**										
1	SS	10	3	2–4	**Sand** Fine to coarse, saturated, trace stones	SW			0.0						
2	SS	8	8	5–7	**Organic**	Pt			0.0						
3	SS	6	29	8–9	**Sand** Fine to medium, with organics, wet	SP			0.0						
4	SS		15	10–11	**Sand** Fine to medium to coarse with gravel, saturated	SW			0.2						
				12	**EOB @ 12' bls**										
				13											

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

Signature	**Firm**
	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-16 at 40-45ft

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
GESTRA Engineering, Inc. - Bryan	11/3/15	11/3/15	Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
		MW-16 at 40-45ft		0	8 inch

N-16 at 40

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☑ **State Plane**	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID	**County** Vilas	**County Code** 63	**Civil Town/City/or Village** Town of Lac du Flambeau

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	Topsoil										
				2	Blind Drilled										
				3–41											
				42–43	EOB @ 42' bls										

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

Signature	**Firm**
	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-17

Boring Drilled By: Name of crew chief (first, last) and Firm PSI - Joe Black	**Date Drilling Started** 11/2/15	**Date Drilling Completed** 11/2/15	**Drilling Method** Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name** MW-17	**Final Static Water Level**	**Surface Elevation** 0	**Borehole Diameter** 8 inch

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑ **State Plane**	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID	**County** Vilas	**County Code** 64	**Civil Town/City/or Village** Town of Lac du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	SS			1	**Topsoil and Grass**										
1	SS	6	22	2–5	**Sand** Fine to coarse, many 3" to 6" stones and rounded small stones	SW			0.0						
2	SS	3	13	5–8	**As above** Saturated	SW			0.0						
3	SS	1	15	8–10	**As above** Wet with lots of rocks, hard drilling										
4	SS	12	5	10–13	**Sand** Fine to coarse, grey, stones, wood pieces and peat	SW									
5	SS		15	13–15	**As above** with gravel	SW									
				15	**EOB @ 15' bls**										

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

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-17 at 35-40ft

Boring Drilled By: Name of crew chief (first, last) and Firm GESTRA Engineering, Inc. - Bryan	**Date Drilling Started** 11/4/15	**Date Drilling Completed** 11/4/15	**Drilling Method** Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name** MW-17 at 35-40ft	**Final Static Water Level**	**Surface Elevation** 0	**Borehole Diameter** 8 inch /V-17 at 35

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ MW-17 at 35-40ft **State Plane**	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID	**County**	**County Code**	**Civil Town/City/or Village**

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	Topsoil										
				2	Blind Drilled										
				3											
				4											
				5											
				6											
				7											
				8											
				9											
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				35											
				36											
				37	EOB @ 36' bls										

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SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-18

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
PSI - Joe Black	11/3/15	11/3/15	Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
		MW-18		0	8 inch

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☑
State Plane
Lat
Long
Local Grid Location N☐ E☐ S☐ W☐

Facility ID	**County** Vilas	**County Code** 64	**Civil Town/City/or Village** Town of Lac du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				-2, -1, 0											
	SS			1, 2	**Grass and Sand/Gravel**										
1	SS	12	20	3, 4	**Sand** Fine to coarse (mostly fine), trace rounded stones				0.0						
2	SS	12	6	5, 6, 7		SW			0.0						
3	SS	12	15	8, 9	**Sand** More silt/clay, gets sandier with depth, wet at 8', sandstone stones at 9'	SM			3.8						
4	SS	12	22	10, 11, 12	**As above** Mainly fine to coarse sand with trace stones and minimal silt	SW			0.0						
5	SS	12	23	13, 14	**As above** Drier, fine to coarse sand with increase in gravel	SW			0.0						
				15, 16	**EOB @ 15' bls**										

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State of Wisconsin
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SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-18 at 35-40ft

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
GESTRA Engineering, Inc. - Bryan	11/5/15	11/5/15	Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
		MW-18 at 35-40ft		0	8 inch

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☒ MW-18 at 35-40ft **State Plane**	**Lat** **Long**	**Local Grid Location** N ☐ E ☐ S ☐ W ☐

Facility ID	**County**	**County Code**	**Civil Town/City/or Village**

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				-2											
				-1											
				0											
				1	Grass and Sand/Gravel										
				2	Blind Drilled										
				3											
				4											
				5											
				6											
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				41	EOB @ 40' bls										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-19

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
PSI - Joe	11/3/15	11/3/15	Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
		MW-19		0	8 inch

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☑ **State Plane**	**Lat** **Long**	**Local Grid Location** N☐ S☐ E☐ W☐

Facility ID	**County** Vilas	**County Code** 64	**Civil Town/City/or Village** Town of Lac du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				-2, -1, 0											
	SS			1	**Grass and Topsoil**										
1	SS	3	25	2, 3, 4	**Sand** Fine to coarse with rounded stones	SW			0.0						
2	SS	3	8	5, 6, 7					0.0						
3	SS	9	6	8, 9	**Sand** Graded into from above, grey, silty with trace gravel, saturated	SM			0.0						
4	SS	12	9	10, 11, 12	**Sand** Clayey, silty with trace gravel	SC			0.0						
5	SS	12	2	13, 14	**Sand** Fine to coarse with trace gravel	SW			0.0						
				15, 16	**EOB @ 15' bls**										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-19 at 35-40ft

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
GESTRA Engineering, Inc. - Bryan	11/5/15	11/5/15	Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
		MW-19 at 35-40ft		0	8 inch

MW-19 at 35

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☑	**Lat**	**Local Grid Location** N☐ E☐
State Plane	**Long**	S☐ W☐

Facility ID	**County** Vilas	**County Code** 64	**Civil Town/City/or Village** Town of Lac du Flambeau

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				-2											
				-1											
				0											
				1	Grass/Topsoil										
				2	Blind Drilled										
				3											
				4											
				5											
				6											
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				41	EOB @ 40' bls										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-20

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
PSI - Joe Black	11/3/15	11/3/15	Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
		MW-20		0	8 inch

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☑	**Lat**	**Local Grid Location** N☐ E☐
State Plane	**Long**	S☐ W☐

Facility ID	**County** Vilas	**County Code** 64	**Civil Town/City/or Village** Town of Lac du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	SS			1	**Asphalt**										
1	SS		20	2–4	**Sand and Gravel** Fine to coarse, brown, trace silt	SW			22.9						
2	SS		14	5–7					13.8						
3	SS	3	18	8–9	**Sand** Fine to coarse with rounded stones, saturated and strong odor, rainbow sheen on spoon from 10-12' bls				5160						
4	SS		26	10–12		SW			5418						
5	SS	12	10	13–14	**As above** Fewer fines, more angular stones				1855						
				15–16	**EOB @ 15' bls**										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-20 at 20-25ft

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
GESTRA Engineering, Inc. - Bryan	11/2/15	11/2/15	Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
		MW-20 at 20-25ft		0	8 inch N-20 at 20

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☑	**Lat**	**Local Grid Location** N☐ E☐
State Plane	**Long**	S☐ W☐

Facility ID	**County** Vilas	**County Code** 64	**Civil Town/City/or Village** Town of Lac du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	Asphalt Blind Drilled										
				2											
				3											
				4											
				5											
				6											
				7											
				8											
				9											
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				25	EOB @ 25' bls										
				26											

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SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-21

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
PSI - Joe Black	11/3/15	11/4/15	Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
		MW-21		0	8 inch

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☑ **State Plane**	**Lat** **Long**	**Local Grid Location** N☐ E☐ S☐ W☐

Facility ID	**County** Vilas	**County Code** 64	**Civil Town/City/or Village** Town of Lac du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	**Asphalt**										
					Road Base										
	SS			2											
				3	**Sand** Brown, drilled through large rock	SP									
				4											
				5	**Sand** Fine to medium with rocks										
1	SS		25	6		SP			93.0						
				7											
				8	**Sand** Fine to coarse, saturated with rounded gravel, odor										
2	SS		13	9					3750						
				10	**Sand and Gravel** Fine to coarse, saturated, increase in gravel, decrease in fine to medium sand										
3	SS		11	11					1578						
				12		SW									
				13											
4	SS		16	14					849						
				15	**EOB @ 15' bls**										
				16											

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Signature	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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SOIL BORING LOG INFORMATION

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Tower Standard		MW-21 at 35-40ft

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
MW-21 at 35-40ft	11/5/15	11/5/15	

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	MW-21 at 35

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☒ MW-21 at 35-40ft	Lat	Local Grid Location
State Plane	Long	N☐ E☐ S☐ W☐

Facility ID	County	County Code	Civil Town/City/or Village

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	Asphalt										
				2	Blind Drilled										
				3											
				4											
				5											
				6											
				7											
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				9											
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				41	EOB @ 40' bls										

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Signature	Firm
	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-22

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
PSI - Joe Black	11/4/15	11/4/15	Hollow Stem Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-22		0	8 inch

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑
State Plane
Lat
Long
Local Grid Location N☐ E☐ S☐ W☐

Facility ID	County	County Code	Civil Town/City/or Village
	Vilas	64	Town of Lac du Flambeau

Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	SS			1	**Fill Sand**										
				2											
1	SS		5	3					13.8						
				4											
2	SS		5	5					0.0						
				6											
				7	**Sand and Gravel** Saturated, fine to coarse										
3	SS		39	8		SW			3015						
				9											
				10	**Sand** Fine, trace gravel										
4	SS		36	11					54.2						
				12		SP									
5	SS		18	13					2.1						
				14											
				15	**EOB @ 15' bls**										
				16											

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

Signature	Firm
	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of thes 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

SOIL BORING LOG INFORMATION

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

Facility/Project Name Tower Standard	**License/Permit/Monitoring Number** BRRTS# 03-64-127899	**Boring Number** MW-22 at 35-40ft

Boring Drilled By: Name of crew chief (first, last) and Firm	**Date Drilling Started**	**Date Drilling Completed**	**Drilling Method**
GESTRA Engineering, Inc. - Bryan	11/3/15	11/3/15	Hollow Stem Auger

WI Unique Well No.	**DNR Well ID No.**	**Common Well Name**	**Final Static Water Level**	**Surface Elevation**	**Borehole Diameter**
		MW-22 at 35-40ft		0	8 inch

MW-22 at 35

Local Grid Orgin ☐ **(estimated)** ☐ **or Boring Location** ☑	**Lat**	**Local Grid Location** N☐ E☐
State Plane	**Long**	S☐ W☐

Facility ID	**County** Vilas	**County Code** 64	**Civil Town/City/or Village** Town of Lac du Flambeau

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	Fine Sand Cover										
				2	Blind Drilled										
				3											
				4											
				5											
				6											
				7											
				8											
				9											
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				33											
				34											
				35											
				36											
				37											
				38											
				39											
				40											
				41	EOB @ 40' bls										

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

Signature	**Firm** REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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APPENDIX D

MONITORING WELL CONSTRUCTION FORMS

Responsive. Efficient. Innovative.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-16
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** / **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11; Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/2/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** PSI - Joe Black
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 _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom .5 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 0.00 ft.

F. Fine sand, top _____ ft. MSL or 0.50 ft.

G. Filter pack, top _____ ft. MSL or 0.9 ft.

H. Screen joint, top _____ ft. MSL or 1.40 ft.

I. Well bottom _____ ft. MSL or 11.40 ft.

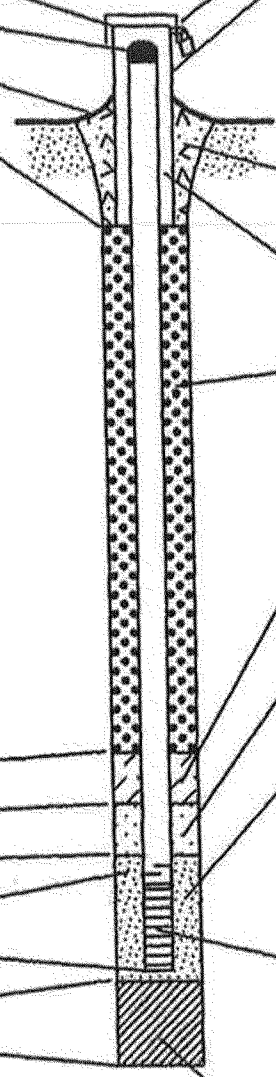
J. Filter pack, bottom _____ ft. MSL or 11.40 ft.

K. Borehole, bottom _____ ft. MSL or 11.40 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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. 0.164 ft^3 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 and mesh size
a. #60 Red Flint
b. Volume added 0.131 ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft^3

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 U.S. Filter
c. Slot size: ___ in.
d. Slotted length: 10 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	Firm
[signature]	REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-16 at 40-45ft
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** GESTRA - Bryan
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 _____ ft. MSL

C. Land surface elevation _____ 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 150 Gallons of Water Added

17. Source of water (attach analysis):
City of Milwaukee

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.

F. Fine sand, top _____ ft. MSL or 31.5 ft.

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

H. Screen joint, top _____ ft. MSL or 37.00 ft.

I. Well bottom _____ ft. MSL or 42.00 ft.

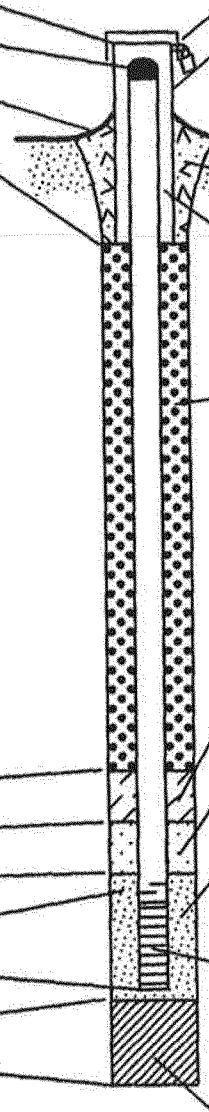
J. Filter pack, bottom _____ ft. MSL or 45.00 ft.

K. Borehole, bottom _____ ft. MSL or 45.00 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal
2 bags 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. 5 %Bentonite ..... Bentonite-cement grout ☒ 50
e. 8.69 ft^3 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. Bentonite Grout Other ☒

7. Fine sand material Manufacturer, product name and mesh size
a. _____
b. Volume added 0.0 ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. _____
b. Volume added 0.0 ft^3

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 Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 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	Firm
	REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-17
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/2/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** PSI - Joe Black
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 _____ ft. MSL

C. Land surface elevation _____ 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 1.00 ft.

F. Fine sand, top _____ ft. MSL or 2.56 ft.

G. Filter pack, top _____ ft. MSL or 3.56 ft.

H. Screen joint, top _____ ft. MSL or 4.56 ft.

I. Well bottom _____ ft. MSL or 14.56 ft.

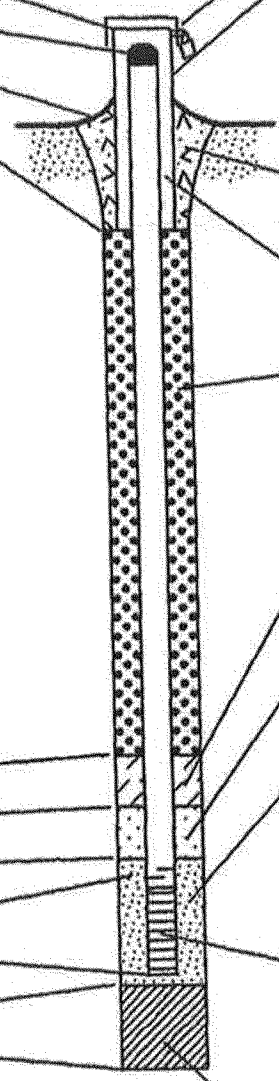
J. Filter pack, bottom _____ ft. MSL or 14.56 ft.

K. Borehole, bottom _____ ft. MSL or 14.56 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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. 0.510 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 and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 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 U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 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	Firm REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-17 at 35-40ft
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/4/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** GESTRA - Bryan
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 _____ ft. MSL

C. Land surface elevation _____ 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 30 Gallons Water Added

17. Source of water (attach analysis):
City of Milwaukee

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.

F. Fine sand, top _____ ft. MSL or 27.6 ft.

G. Filter pack, top _____ ft. MSL or 28.1 ft.

H. Screen joint, top _____ ft. MSL or 30.6 ft.

1. Well bottom _____ ft. MSL or 35.6 ft.

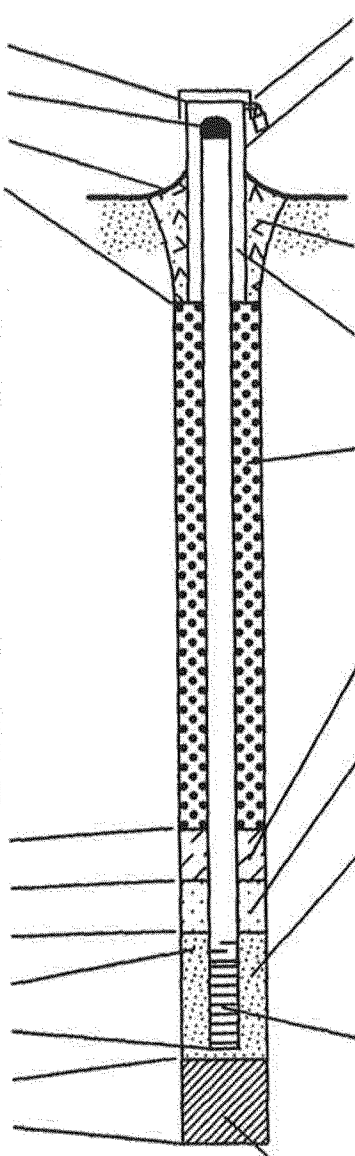
J. Filter pack, bottom _____ ft. MSL or 36.00 ft.

K. Borehole, bottom _____ ft. MSL or 36.00 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
12 bags 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. 5 %Bentonite -------- Bentonite-cement grout ☒ 50
e. 8.02 ft^3 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. Bentonite Grout Other ☒

7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 0.164 ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 0.491 ft^3

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 Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 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	Firm
	REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-18
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** / **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** PSI - Joe Black
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 _____ ft. MSL

C. Land surface elevation _____ 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 ft.

F. Fine sand, top _____ ft. MSL or 5.41 ft.

G. Filter pack, top _____ ft. MSL or 6.41 ft.

H. Screen joint, top _____ ft. MSL or 7.41 ft.

I. Well bottom _____ ft. MSL or 17.41 ft.

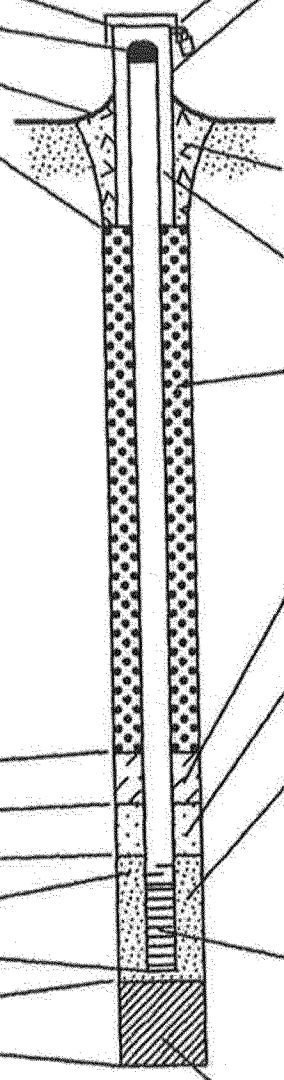
J. Filter pack, bottom _____ ft. MSL or 17.41 ft.

K. Borehole, bottom _____ ft. MSL or 17.41 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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. 1.769 ft^3 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 and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft^3

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 U.S. Filter
c. Slot size: ___ in.
d. Slotted length: 10 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	Firm
[signature]	REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 54401

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-18 at 35-40ft
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/5/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** GESTRA - Bryan
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 _____ ft. MSL

C. Land surface elevation _____ 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 40 Gallons Water Added

17. Source of water (attach analysis):
Town of Minocqua

E. Bentonite seal, top _____ ft. MSL or 0 ft.

F. Fine sand, top _____ ft. MSL or 31.50 ft.

G. Filter pack, top _____ ft. MSL or 32.00 ft.

H. Screen joint, top _____ ft. MSL or 34.00 ft.

1. Well bottom _____ ft. MSL or 39.00 ft.

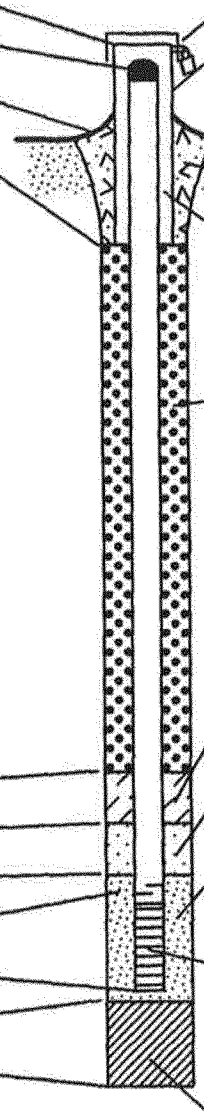
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.

K. Borehole, bottom _____ ft. MSL or 40.00 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
6 bags 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. 5 %Bentonite ------- Bentonite-cement grout ☒ 50
e. 8.69 ft^3 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. Bentonite Grout Other ☒

7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 2 bags ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 1/2 bag ft^3

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 Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 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	Firm REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-19
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** PSI - Joe Black
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 _____ ft. MSL

C. Land surface elevation _____ 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 ft.

F. Fine sand, top _____ ft. MSL or 4.54 ft.

G. Filter pack, top _____ ft. MSL or 5.54 ft.

H. Screen joint, top _____ ft. MSL or 6.54 ft.

I. Well bottom _____ ft. MSL or 16.54 ft.

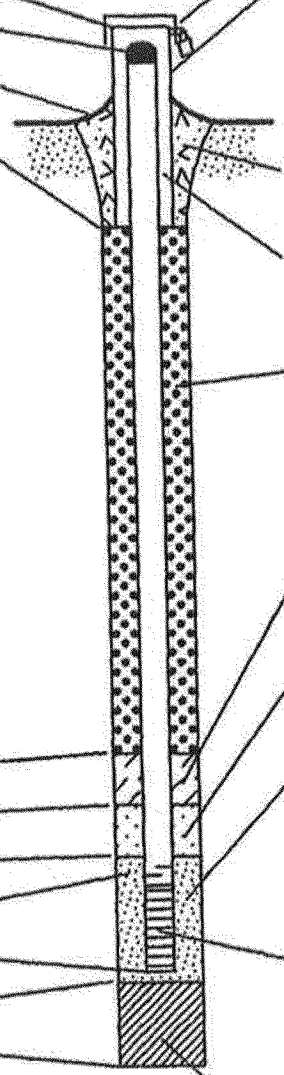
J. Filter pack, bottom _____ ft. MSL or 16.54 ft.

K. Borehole, bottom _____ ft. MSL or 16.54 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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. 1.485 ft^3 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 and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft^3

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 U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 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	Firm REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-19 at 35-40ft
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/5/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** GESTRA - Bryan
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 _____ ft. MSL

C. Land surface elevation _____ 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 40 Gallons Water Added

17. Source of water (attach analysis):
Town of Minocqua

E. Bentonite seal, top _____ ft. MSL or 0 ft.

F. Fine sand, top _____ ft. MSL or 31.00 ft.

G. Filter pack, top _____ ft. MSL or 33.00 ft.

H. Screen joint, top _____ ft. MSL or 35.00 ft.

1. Well bottom _____ ft. MSL or 40.00 ft.

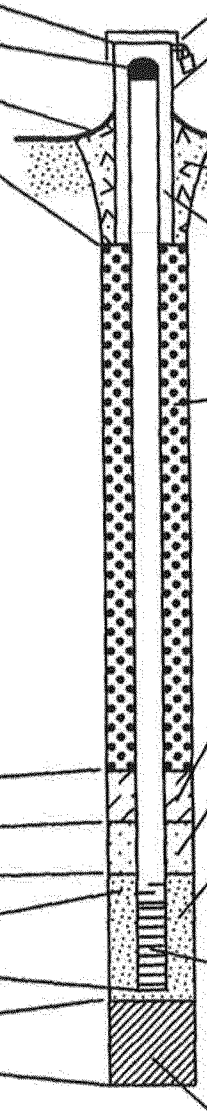
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.

K. Borehole, bottom _____ ft. MSL or 40.00 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
5 bags 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. 5 %Bentonite -------- Bentonite-cement grout ☒ 50
e. 8.69 ft^3 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 and mesh size
a. #15 Red Flint
b. Volume added 1 bag ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 1 1/2 bags ft^3

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 Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 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	Firm REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
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Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-20
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** / **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N, R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** PSI - Joe Black
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 _____ ft. MSL

C. Land surface elevation _____ 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 ft.

F. Fine sand, top _____ ft. MSL or 2.54 ft.

G. Filter pack, top _____ ft. MSL or 3.54 ft.

H. Screen joint, top _____ ft. MSL or 4.54 ft.

I. Well bottom _____ ft. MSL or 14.54 ft.

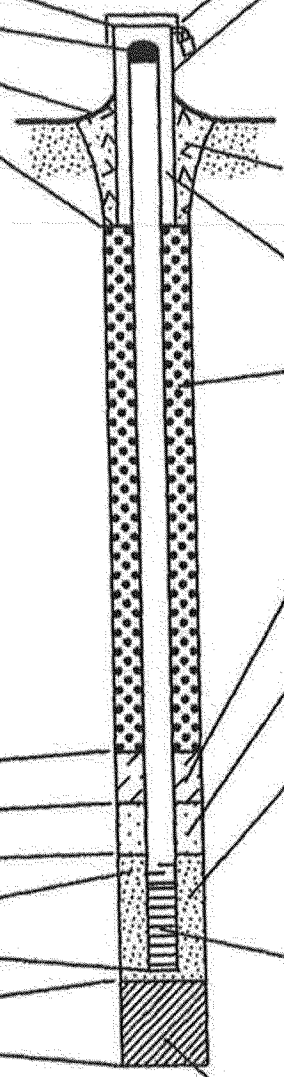
J. Filter pack, bottom _____ ft. MSL or 14.54 ft.

K. Borehole, bottom _____ ft. MSL or 14.54 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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. 0.831 ft^3 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 and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft^3

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 U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 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	Firm: REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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.

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Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-20 at 20-25ft
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** / **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/2/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** GESTRA - Bryan
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 _____ ft. MSL

C. Land surface elevation _____ 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 1.00 ft.

F. Fine sand, top _____ ft. MSL or 16.00 ft.

G. Filter pack, top _____ ft. MSL or 18.00 ft.

H. Screen joint, top _____ ft. MSL or 20.00 ft.

I. Well bottom _____ ft. MSL or 25.00 ft.

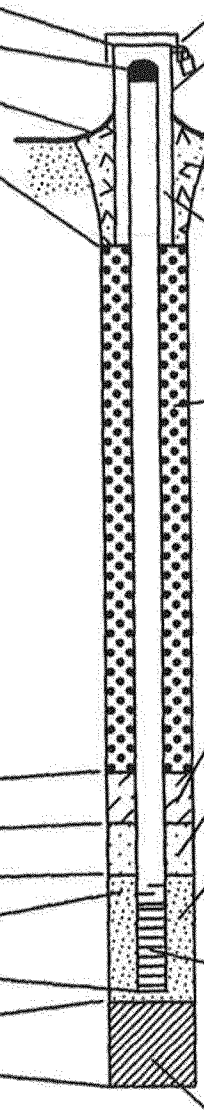
J. Filter pack, bottom _____ ft. MSL or 25.00 ft.

K. Borehole, bottom _____ ft. MSL or 25.00 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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. 5.225 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 and mesh size
a. #15 Red Flint
b. Volume added 2 1/2 bags ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 1/2 bag 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 Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 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	Firm REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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 tile 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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-21
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** PSI - Joe Black
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 _____ ft. MSL

C. Land surface elevation _____ 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 ft.

F. Fine sand, top _____ ft. MSL or 2.55 ft.

G. Filter pack, top _____ ft. MSL or 3.55 ft.

H. Screen joint, top _____ ft. MSL or 4.55 ft.

I. Well bottom _____ ft. MSL or 14.55 ft.

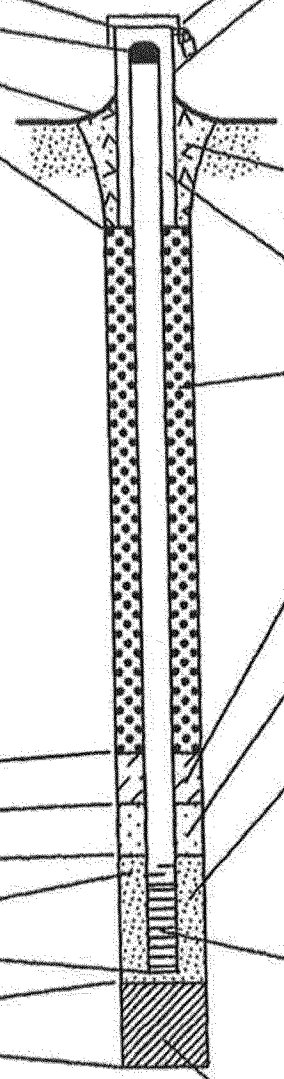
J. Filter pack, bottom _____ ft. MSL or 14.55 ft.

K. Borehole, bottom _____ ft. MSL or 14.55 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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. 0.834 ft^3 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 and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft^3

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 U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 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	Firm REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-21 at 35-40ft
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/5/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** GESTRA - Bryan
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 _____ ft. MSL

C. Land surface elevation _____ 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 45 Gallons Water Added

17. Source of water (attach analysis):
City of Minocqua

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.

F. Fine sand, top _____ ft. MSL or 31.00 ft.

G. Filter pack, top _____ ft. MSL or 33.00 ft.

H. Screen joint, top _____ ft. MSL or 35.00 ft.

I. Well bottom _____ ft. MSL or 40.00 ft.

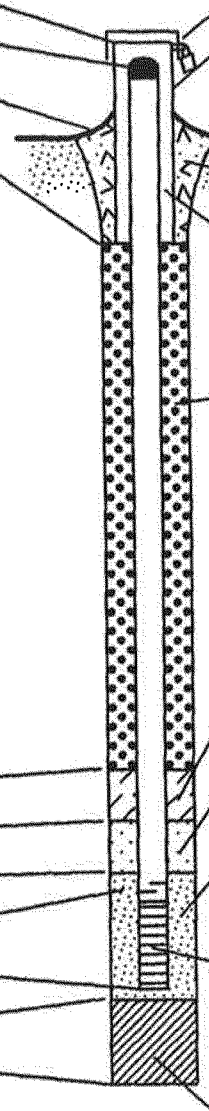
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.

K. Borehole, bottom _____ ft. MSL or 40.00 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
8 bags 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. 5 %Bentonite -------- Bentonite-cement grout ☒ 50
e. 8.69 ft^3 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 and mesh size
a. #15 Red Flint
b. Volume added 1 bag ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 2 1/2 bags ft^3

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 Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 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	Firm REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-22
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** / **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/4/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** PSI - Joe Black
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 _____ ft. MSL

C. Land surface elevation _____ 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 ft.

F. Fine sand, top _____ ft. MSL or 2.46 ft.

G. Filter pack, top _____ ft. MSL or 3.46 ft.

H. Screen joint, top _____ ft. MSL or 4.46 ft.

I. Well bottom _____ ft. MSL or 14.46 ft.

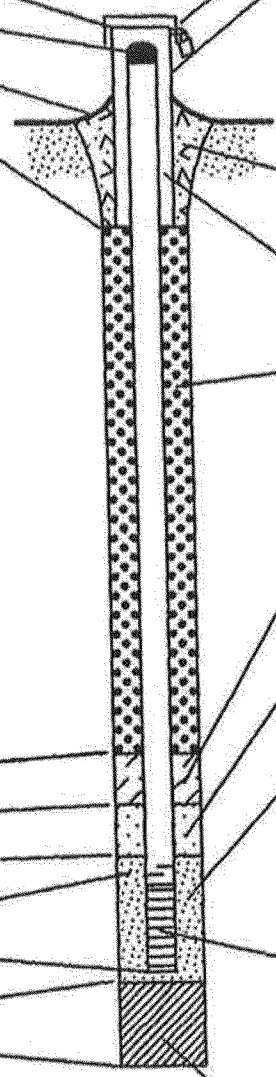
J. Filter pack, bottom _____ ft. MSL or 14.46 ft.

K. Borehole, bottom _____ ft. MSL or 14.46 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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. 0.804 ft^3 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 and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft^3

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 U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 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	Firm: REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Tower Standard	**Local Grid Location of Well** ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-22 at 35-40ft
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** / **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11; Piezometer ☐ 12	**Section Location of Waste/Source** ☒ E	**Date Well Installed** 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 ☐ W	**Well Installed By (Person's Name and Firm)** GESTRA - Bryan
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 _____ ft. MSL

C. Land surface elevation _____ 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 1.00 ft.

F. Fine sand, top _____ ft. MSL or 30.5 ft.

G. Filter pack, top _____ ft. MSL or 32.5 ft.

H. Screen joint, top _____ ft. MSL or 34.5 ft.

1. Well bottom _____ ft. MSL or 39.5 ft.

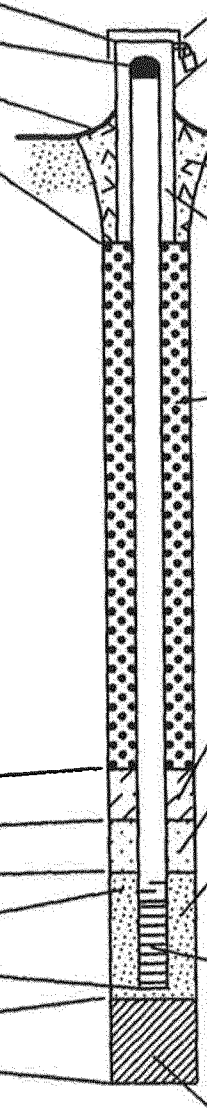
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.

K. Borehole, bottom _____ ft. MSL or 40.00 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No

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

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. 9.647 ft^3 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 and mesh size
a. #15 Red Flint
b. Volume added 1 bag ft^3

8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 2 bags ft^3

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 Johnson Screen
c. Slot size: ___ in.
d. Slotted length: 5 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	Firm: REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

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.

APPENDIX E

MONITORING WELL DEVELOPMENT FORMS

EPA-R5-2017-010506_0002408

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Tower Standard	Oneida	MW16	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	64		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and balled ☐ 41
- surged with bailer and pumped ☒ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- Other _____ ☐

3. Time spent developing well 70 *min.*

4. Depth of well (from top of Casing) 11.40 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing 7.6 *gal.*

7. Volume of water removed from well 40 *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 3.28 *ft.*	Dry *ft.*
Data *mm/dd/yy*	b. 11-11-15	11-11-15
Time	c. 10:05 ☐ p.m. ☒ a.m.	11:15 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 9 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:
Well pumped dry 5 times

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D N L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name
Tower Standard	Oneida	MW16 @ 37-42

Facility Licence, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	64		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and balled ☐ 41
- surged with bailer and pumped ☒ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- Other _____ ☐

3. Time spent developing well 57 *min.*

4. Depth of well (from top of Casing) 40.98 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well 22 *gal.*

8. Volume of water added (If any) 150 *gal.*

9. Source of water added City of Milwaukee

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 2.14 *ft.*	Dry *ft.*
Data *mm/dd/yy*	b. 11-11-15	11-11-15
Time	c. 10:18 ☐ p.m. ☒ a.m.	11:15 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 10 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well pumped dry 4 times

150 gallons of water was added to remove blowup from boring to set well. All 150 gallons were recovered - water was recirculated between mud tub and well casing

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D N L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Tower Standard	Oneida	MW17	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	64		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and balled ☐ 41
- surged with bailer and pumped ☒ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- Other _____ ☐

3. Time spent developing well 63 *min.*

4. Depth of well (from top of Casing) 14.56 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing 4.96 *gal.*

7. Volume of water removed from well 10.75 *gal.*

8. Volume of water added (if any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 8.64 *ft.*	Dry *ft.*
Data *mm/dd/yy*	b. 11-11-15	11-11-15
Time	c. 11:22 ☐ p.m. ☒ a.m.	12:25 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 9 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:
Well pumped dry 5 times

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

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

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Tower Standard	Oneida	MW17 @ 31-36	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	64		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 53 *min.*

4. Depth of well (from top of Casing) 35.35 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well 7 *gal.*

8. Volume of water added (if any) 30 *gal.*

9. Source of water added City of Milwaukee

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 8.86 *ft.*	Dry *ft.*
Data *mm/dd/yy*	b. 11-11-15	11-11-15
Time	c. 11:34 ☐ p.m. ☒ a.m.	12:27 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	1 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 4 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well pumped dry 4 times

30 gallons of water was added to prevent blowup

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

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

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name
Tower Standard	Oneida	MW18

Facility Licence, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	64		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
- surged with bailer and pumped ☒ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- Other _____ ☐

3. Time spent developing well 90 *min.*

4. Depth of well (from top of Casing) 17.41 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing 6.9 *gal.*

7. Volume of water removed from well 23 *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 10.17 *ft.*	Dry *ft.*
Data *mm/dd/yy*	b. 11-11-15	11-11-15
Time	c. 12:20 ☒ p.m. ☐ a.m.	1:50 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 10 Turbid ☐ 15
(Describe)		Clear at 14 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:
Well pumped dry 7 times

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D N L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name
Tower Standard	Oneida	MW18 @ 35-40

Facility Licence, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	64		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 281 *min.*

4. Depth of well (from top of Casing) 41.34 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well 150 *gal.*

8. Volume of water added (if any) 30 *gal.*

9. Source of water added Town of Minocqua

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 10.26 *ft.*	Dry *ft.*
Data *mm/dd/yy*	b. 11-11-15	11-11-15
Time	c. 12:09 ☒ p.m. ☐ a.m.	3:20 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 15 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well pumped dry many times, greater yield towards the end of the development process

40 gallons of water was added to prevent blowup

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name
Tower Standard	Oneida	MW19

Facility Licence, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	64		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and balled ☐ 41
- surged with bailer and pumped ☒ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- Other _____ ☐

3. Time spent developing well 47 *min.*

4. Depth of well (from top of Casing) 16.54 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing 7.21 *gal.*

7. Volume of water removed from well 55 *gal.*

8. Volume of water added (if any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 8.96 *ft.*	11.38 *ft.*
Data *mm/dd/yy*	b. 11-10-15	11-10-15
Time	c. 9:47 ☐ p.m. ☒ a.m.	10:34 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	4 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 30 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D N L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Tower Standard	Oneida	MW19@35-40	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	64		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 47 *min.*

4. Depth of well (from top of Casing) 16.54 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well 150 *gal.*

8. Volume of water added (if any) 40 *gal.*

9. Source of water added Town of Minocqua

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 9.26 *ft.*	10:32 *ft.*
Data *mm/dd/yy*	b. 11-10-15	11-10-15
Time	c. 9:32 ☐ p.m. ☒ a.m.	10:32 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	12 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 100 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:
40 gallons of water added to keep blow up out of augers

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Tower Standard	Oneida	MW20	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	64		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and balled ☐ 41
- surged with bailer and pumped ☒ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- Other _____ ☐

3. Time spent developing well 33 *min.*

4. Depth of well (from top of Casing) 14.54 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing 6.5 *gal.*

7. Volume of water removed from well 75 *gal.*

8. Volume of water added (if any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 7.67 *ft.*	14.54 *ft.*
Data *mm/dd/yy*	b. 11-10-15	11-10-15
Time	c. 12:09 ☒ p.m. ☐ a.m.	12:42 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	4 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 60 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name
Tower Standard	Oneida	MW20@20-25

Facility Licence, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	64		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and balled ☐ 41
- surged with bailer and pumped ☒ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- Other _____ ☐

3. Time spent developing well 122 *min.*

4. Depth of well (from top of Casing) 24.98 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well 150 *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 7.89 *ft.*	10.25 *ft.*
Data *mm/dd/yy*	b. 11-10-15	11-10-15
Time	c. 12:08 ☒ p.m. ☐ a.m.	2:10 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	4 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 40 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D N L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name
Tower Standard	Oneida	MW21

Facility Licence, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	64		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and balled ☐ 41
- surged with bailer and pumped ☒ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- Other _____ ☐

3. Time spent developing well 55 *min.*

4. Depth of well (from top of Casing) 14.55 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing 6.7 *gal.*

7. Volume of water removed from well 50 *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 7.43 *ft.*	11.35 *ft.*
Data *mm/dd/yy*	b. 11-10-15	11-10-15
Time	c. 10:40 ☐ p.m. ☒ a.m.	11:35 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	4 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 30 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name
Tower Standard	Oneida	MW21@35-40

Facility Licence, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	64		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 69 *min.*

4. Depth of well (from top of Casing) 39.56 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well 150 *gal.*

8. Volume of water added (If any) 45 *gal.*

9. Source of water added Town of Minocqua

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 7.83 *ft.*	7.91 *ft.*
Data *mm/dd/yy*	b. 11-10-15	11-10-15
Time	c. 10:46 ☐ p.m. ☒ a.m.	11:55 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	4 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 50 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:
45 gallons of water added to keep blowup from entering augers

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name
Tower Standard	Oneida	MW22

Facility Licence, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	64		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
- surged with bailer and pumped ☒ 61
- surged with block and bailed ☐ 42
- surged with block and pumped ☐ 62
- surged with block, bailed and pumped ☐ 70
- compressed air ☐ 20
- bailed only ☐ 10
- pumped only ☐ 51
- pumped slowly ☐ 50
- Other _____ ☐

3. Time spent developing well 96 *min.*

4. Depth of well (from top of Casing) 7.89 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing 6.2 *gal.*

7. Volume of water removed from well 23.5 *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 10.17 *ft.*	Dry *ft.*
Data *mm/dd/yy*	b. 11-11-15	11-11-15
Time	c. 1:24 ☒ p.m. ☐ a.m.	3:00 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 10 Turbid ☐ 15
(Describe)		Clear at 10.5 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:
Well pumped dry 7 times

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D N L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name
Tower Standard	Oneida	MW22 @ 35-40

Facility Licence, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	64		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 90 *min.*

4. Depth of well (from top of Casing) 39.21 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well 150 *gal.*

8. Volume of water added (if any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 8.44 *ft.*	9.13 *ft.*
Data *mm/dd/yy*	b. 11-11-15	11-11-15
Time	c. 1:40 ☒ p.m. ☐ a.m.	3:10 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 15 gallons

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well pumped dry many times, greater yield towards the end of the development process

No water added to well

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

APPENDIX F

BOREHOLE ABANDONMENT FORMS

Responsive. Efficient. Innovative.

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-1	

Latitude / Longitude (see instructions): _____ N _____ W

Format Code: ☐ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau

Well ZIP Code: 54538

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau	WI	54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 15

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

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

If yes, to what depth (feet)?

Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Giles Engineering/REI Engineering, Inc.		9/14/15

Street or Route: 4080 N. 20th Avenue

Telephone Number: (715) 675-9784

City	State	ZIP Code
Wausau	WI	54401

Signature of Person Doing Work: [signature]

Date Signed: 5-16-16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-2	

Latitude / Longitude (see instructions): _____ N _____ W

Format Code: ☐ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau

Well ZIP Code: 54538

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau WI		54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

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

If yes, to what depth (feet)?

Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Giles Engineering/REI Engineering, Inc.		9/14/15

Street or Route: 4080 N. 20th Avenue

Telephone Number: (715) 675-9784

City	State	ZIP Code
Wausau	WI	54401

Signature of Person Doing Work: [signature]

Date Signed: 5-16-16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-3	

Latitude / Longitude (see instructions): _____ N _____ W

Format Code: ☐ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau

Well ZIP Code: 54538

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau	WI	54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

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

If yes, to what depth (feet)?

Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Giles Engineering/REI Engineering, Inc.		9/14/15

Street or Route: 4080 N. 20th Avenue

Telephone Number: (715) 675-9784

City	State	ZIP Code
Wausau	WI	54401

Signature of Person Doing Work: [signature]

Date Signed: 5-16-16

DNR Use Only

Date Received:

Noted By:

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-4	

Latitude / Longitude (see instructions): _____ N _____ W

Format Code: ☐ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau

Well ZIP Code: 54538

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau	WI	54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

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

If yes, to what depth (feet)?

Depth to Water (feet):

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Giles Engineering/REI Engineering, Inc.		9/14/15

Street or Route: 4080 N. 20th Avenue

Telephone Number: (715) 675-9784

City	State	ZIP Code
Wausau	WI	54401

Signature of Person Doing Work: [signature]

Date Signed: 5-16-16

DNR Use Only

Date Received:

Noted By:

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-5	

Latitude / Longitude (see instructions)	Format Code	Method Code
N W	☐ DD ☐ DDM	☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town	Well ZIP Code
Town of Lac du Flambeau	54538

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau	WI	54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

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

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

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Giles Engineering/REI Engineering, Inc.		9/14/15

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	[signature]	5-16-16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-6
Hicap #:
Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001
¼ / ¼ SE ¼ SW or Gov't Lot #:
Section: 30
Township: 40 N
Range: ☑ E ☐ W: 05
Well Street Address: 14267 Highway 70 West
Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard
Facility ID (FID or PWS): BRRTS# 03-64-127899
License/Permit/Monitoring #:
Original Well Owner: Tower Standard
Present Well Owner: Tower Standard
Mailing Address of Present Owner: 14267 State Highway 70 West
City of Present Owner: Lac du Flambeau WI
State:
ZIP Code: 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15
If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 15
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet):

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/14/15
Street or Route: 4080 N. 20th Avenue
Telephone Number: (715) 675-9784
City: Wausau
State: WI
ZIP Code: 54401
Signature of Person Doing Work:
Date Signed: 5-16-16

DNR Use Only
Date Received:
Noted By:
Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-7	

Latitude / Longitude (see instructions)	Format Code	Method Code
N W	☐ DD ☐ DDM	☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau — Well ZIP Code: 54538

Subdivision Name: — Lot #:

Reason for Removal from Service: — WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau	WI	54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15

If a Well Construction Report is available, please attach.

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

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 15 — Casing Diameter (in.):

Lower Drillhole Diameter (in.): — Casing Depth (ft.):

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

If yes, to what depth (feet)? — Depth to Water (feet):

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials: ☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Giles Engineering/REI Engineering, Inc.		9/14/15

Street or Route: 4080 N. 20th Avenue — Telephone Number: (715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	[signature]	5-16-16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-8	

Latitude / Longitude (see instructions): _____ N _____ W

Format Code: ☐ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau

Well ZIP Code: 54538

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau	WI	54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

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

If yes, to what depth (feet)?

Depth to Water (feet):

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Giles Engineering/REI Engineering, Inc.		9/14/15

Street or Route: 4080 N. 20th Avenue

Telephone Number: (715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	[signature]	5-16-16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-9
Hicap #:

Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE ¼ SW or Gov't Lot #
Section: 30
Township: 40 N
Range: 05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West
Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538
Subdivision Name:
Lot #:

Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard
Facility ID (FID or PWS): BRRTS# 03-64-127899
License/Permit/Monitoring #:
Original Well Owner: Tower Standard
Present Well Owner: Tower Standard
Mailing Address of Present Owner: 14267 State Highway 70 West
City of Present Owner: Lac du Flambeau WI
State:
ZIP Code: 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15
If a Well Construction Report is available, please attach.

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

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 15
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials: ☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/14/15
Street or Route: 4080 N. 20th Avenue
Telephone Number: (715) 675-9784
City: Wausau
State: WI
ZIP Code: 54401
Signature of Person Doing Work:
Date Signed: 5-16-16

DNR Use Only
Date Received:
Noted By:
Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-10	

Latitude / Longitude (see instructions): _____ N _____ W

Format Code: ☐ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau

Well ZIP Code: 54538

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau	WI	54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15

If a Well Construction Report is available, please attach.

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

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 15

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

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

If yes, to what depth (feet)?

Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials: ☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Giles Engineering/REI Engineering, Inc.		9/14/15

Street or Route: 4080 N. 20th Avenue

Telephone Number: (715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	[signature]	5-16-16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-11	

Latitude / Longitude (see instructions): _____ N _____ W

Format Code: ☐ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau

Well ZIP Code: 54538

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau WI		54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

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

If yes, to what depth (feet)?

Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Giles Engineering/REI Engineering, Inc.		9/14/15

Street or Route: 4080 N. 20th Avenue

Telephone Number: (715) 675-9784

City	State	ZIP Code
Wausau	WI	54401

Signature of Person Doing Work: [signature]

Date Signed: 5-16-16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-12
Hicap #:

Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE: ¼ SW: or Gov't Lot #:
Section: 30
Township: 40 N
Range: 05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West
Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538
Subdivision Name:
Lot #:

Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard
Facility ID (FID or PWS): BRRTS# 03-64-127899
License/Permit/Monitoring #:
Original Well Owner: Tower Standard
Present Well Owner: Tower Standard
Mailing Address of Present Owner: 14267 State Highway 70 West
City of Present Owner: Lac du Flambeau
State: WI
ZIP Code: 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15
If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 15
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/14/15
Street or Route: 4080 N. 20th Avenue
Telephone Number: (715) 675-9784
City: Wausau
State: WI
ZIP Code: 54401
Signature of Person Doing Work:
Date Signed: 5-16-16

DNR Use Only
Date Received:
Noted By:
Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-13
Hicap #:

Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE ¼ SW or Gov't Lot #
Section: 30
Township: 40 N
Range: 05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West
Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538
Subdivision Name:
Lot #:

Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard
Facility ID (FID or PWS): BRRTS# 03-64-127899
License/Permit/Monitoring #:
Original Well Owner: Tower Standard
Present Well Owner: Tower Standard
Mailing Address of Present Owner: 14267 State Highway 70 West
City of Present Owner: Lac du Flambeau WI
State:
ZIP Code: 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15
If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/14/15
Street or Route: 4080 N. 20th Avenue
Telephone Number: (715) 675-9784
City: Wausau
State: WI
ZIP Code: 54401
Signature of Person Doing Work:
Date Signed: 5-16-16

DNR Use Only
Date Received:
Noted By:
Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-14
Hicap #:
Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001
¼ / ¼ SE: ¼ SW: or Gov't Lot #:
Section: 30
Township: 40 N
Range: 05 ☑ E ☐ W
Well Street Address: 14267 Highway 70 West
Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard
Facility ID (FID or PWS): BRRTS# 03-64-127899
License/Permit/Monitoring #:
Original Well Owner: Tower Standard
Present Well Owner: Tower Standard
Mailing Address of Present Owner: 14267 State Highway 70 West
City of Present Owner: Lac du Flambeau
State: WI
ZIP Code: 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15
If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 2
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet):

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	2		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/14/15
Street or Route: 4080 N. 20th Avenue
Telephone Number: (715) 675-9784
City: Wausau
State: WI
ZIP Code: 54401
Signature of Person Doing Work:
Date Signed: 5-16-16

DNR Use Only
Date Received:
Noted By:
Comments:

State of Wis., Dept. of Natural Resources
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Well / Drillhole / Borehole Filling & Sealing Report

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-15
Hicap #:
Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001
¼ / ¼ SE: ¼ SW: or Gov't Lot #:
Section: 30
Township: 40 N
Range: 05 ☑ E ☐ W
Well Street Address: 14267 Highway 70 West
Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard
Facility ID (FID or PWS): BRRTS# 03-64-127899
License/Permit/Monitoring #:
Original Well Owner: Tower Standard
Present Well Owner: Tower Standard
Mailing Address of Present Owner: 14267 State Highway 70 West
City of Present Owner: Lac du Flambeau WI
State:
ZIP Code: 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15
If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):
Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/14/15
Street or Route: 4080 N. 20th Avenue
Telephone Number: (715) 675-9784
City: Wausau
State: WI
ZIP Code: 54401
Signature of Person Doing Work:
Date Signed: 5-16-16

DNR Use Only
Date Received:
Noted By:
Comments:

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-16
Hicap #:
Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001
¼ / ¼ SE: ¼ SW: or Gov't Lot #:
Section: 30
Township: 40 N
Range: 05 ☑ E ☐ W
Well Street Address: 14267 Highway 70 West
Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard
Facility ID (FID or PWS): BRRTS# 03-64-127899
License/Permit/Monitoring #:
Original Well Owner: Tower Standard
Present Well Owner: Tower Standard
Mailing Address of Present Owner: 14267 State Highway 70 West
City of Present Owner: Lac du Flambeau WI
State:
ZIP Code: 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/14/15
If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/14/15
Street or Route: 4080 N. 20th Avenue
Telephone Number: (715) 675-9784
City: Wausau
State: WI
ZIP Code: 54401
Signature of Person Doing Work: [signature]
Date Signed: 5-16-16

DNR Use Only
Date Received:
Noted By:
Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 DNR Bureau: ☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-17
Hicap #:
Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001
¼ / ¼ SE: ¼ SW: or Gov't Lot #:
Section: 30
Township: 40 N
Range: 05 ☑ E ☐ W
Well Street Address: 14267 Highway 70 West
Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard
Facility ID (FID or PWS): BRRTS# 03-64-127899
License/Permit/Monitoring #:
Original Well Owner: Tower Standard
Present Well Owner: Tower Standard
Mailing Address of Present Owner: 14267 State Highway 70 West
City of Present Owner: Lac du Flambeau WI
State:
ZIP Code: 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/15/15
If a Well Construction Report is available, please attach.

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

Formation Type: ☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 15
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials: ☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/15/15
Street or Route: 4080 N. 20th Avenue
Telephone Number: (715) 675-9784
City: Wausau
State: WI
ZIP Code: 54401
Signature of Person Doing Work:
Date Signed: 5-16-16

DNR Use Only
Date Received:
Noted By:
Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-18	

Latitude / Longitude (see instructions): ____ N ____ W

Format Code: ☐ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau

Well ZIP Code: 54538

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well: ____

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau WI		54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/15/15

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

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

If yes, to what depth (feet)?

Depth to Water (feet):

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): ____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	DNR Use Only: Date Received	Noted By
Giles Engineering/REI Engineering, Inc.		9/15/15		

Street or Route	Telephone Number	Comments
4080 N. 20th Avenue	(715) 675-9784	

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	[signature]	5-16-16

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-19
Hicap #:
Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001
¼ / ¼ SE ¼ SW or Gov't Lot #:
Section: 30
Township: 40 N
Range: 05 ☑ E ☐ W
Well Street Address: 14267 Highway 70 West
Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard
Facility ID (FID or PWS): BRRTS# 03-64-127899
License/Permit/Monitoring #:
Original Well Owner: Tower Standard
Present Well Owner: Tower Standard
Mailing Address of Present Owner: 14267 State Highway 70 West
City of Present Owner: Lac du Flambeau WI
State:
ZIP Code: 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 9/15/15
If a Well Construction Report is available, please attach.
Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☑ Other (specify): GeoProbe
Formation Type: ☑ Unconsolidated Formation ☐ Bedrock
Total Well Depth From Ground Surface (ft.): 10
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):
Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials: ☐ Neat Cement Grout ☐ Concrete ☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/15/15
Street or Route: 4080 N. 20th Avenue
Telephone Number: (715) 675-9784
City: Wausau
State: WI
ZIP Code: 54401
Signature of Person Doing Work:
Date Signed: 5-16-16

DNR Use Only
Date Received:
Noted By:
Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County: Vilas
WI Unique Well # of Removed Well: BH-20
Hicap #:
Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001
¼ / ¼ SE: ¼ SW: or Gov't Lot #:
Section: 30
Township: 40 N
Range: 05 ☑ E ☐ W
Well Street Address: 14267 Highway 70 West
Well City, Village or Town: Town of Lac du Flambeau
Well ZIP Code: 54538
Subdivision Name:
Lot #:
Reason for Removal from Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard
Facility ID (FID or PWS): BRRTS# 03-64-127899
License/Permit/Monitoring #:
Original Well Owner: Tower Standard
Present Well Owner: Tower Standard
Mailing Address of Present Owner: 14267 State Highway 70 West
City of Present Owner: Lac du Flambeau
State: WI
ZIP Code: 54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 9/15/15
If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 10
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):
Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Giles Engineering/REI Engineering, Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 9/15/15
Street or Route: 4080 N. 20th Avenue
Telephone Number: (715) 675-9784
City: Wausau
State: WI
ZIP Code: 54401
Signature of Person Doing Work: [signature]
Date Signed: 5-16-16

DNR Use Only
Date Received:
Noted By:
Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-21	

Latitude / Longitude (see instructions) _____ N _____ W

Format Code: ☐ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau

Well ZIP Code: 54538

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau	WI	54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/15/15

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 15

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

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

If yes, to what depth (feet)?

Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	15		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	DNR Use Only: Date Received	Noted By
Giles Engineering/REI Engineering, Inc.		9/15/15		

Street or Route	Telephone Number	Comments
4080 N. 20th Avenue	(715) 675-9784	

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	[signature]	5-16-16

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

Well / Drillhole / Borehole Filling & Sealing Report

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☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Vilas	BH-22A	

Latitude / Longitude (see instructions): _____ N _____ W

Format Code: ☐ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		30	40 N	05 ☑ E ☐ W

Well Street Address: 14267 Highway 70 West

Well City, Village or Town: Town of Lac du Flambeau

Well ZIP Code: 54538

Subdivision Name:

Lot #:

Reason for Removal from Service:

WI Unique Well # of Replacement Well: _____

2. Facility / Owner Information

Facility Name: Tower Standard

Facility ID (FID or PWS): BRRTS# 03-64-127899

License/Permit/Monitoring #:

Original Well Owner: Tower Standard

Present Well Owner: Tower Standard

Mailing Address of Present Owner: 14267 State Highway 70 West

City of Present Owner	State	ZIP Code
Lac du Flambeau	WI	54538

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 9/15/15

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 5

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

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

If yes, to what depth (feet)?

Depth to Water (feet)

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☑
Liner(s) removed?	☐	☐	☑
Liner(s) perforated?	☐	☐	☑
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?	☐	☐	☐
If bentonite chips were used, were they hydrated with water from a known safe source?	☐	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☑ 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
Granular Bentonite Holeplug	Surface	5		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Giles Engineering/REI Engineering, Inc.		9/15/15

Street or Route: 4080 N. 20th Avenue

Telephone Number: (715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	[signature]	5-16-16

DNR Use Only

Date Received	Noted By

Comments: