

From: Ken Shimko <kshimko.meridianenv@gmail.com>
Sent: Monday, June 08, 2020 10:57 AM
To: Stoltz, Carrie R - DNR
Subject: Russ Thompson cost for abandoning EX-2
Attachments: kshimko20200608_08484281.pdf

Kenneth Shimko, PG
Meridian Environmental Consulting, LLC
2711 North Elco Road
Fall Creek, Wisconsin 54742
(715)832-6608 (office)
(715)579-0723 (cell)
Email: kshimko.meridianenv@gmail.com



Meridian Environmental Consulting, LLC

Request for Cost Estimate: ABANDON WELL

Doug's Tire (now Flambeau Auto)

Ladysmith, Wisconsin

Meridian No. 05F786

Scope of Work:

Use mini-excavator to dig down (4 ft) so well casing can be cut off. Estimate trench 6 ft x 3 ft x 4 ft deep.

Backfill excavation with road base material. Compact every 1 foot.

Schedule: June 13, 2020 (Saturday)

Cost Estimate: \$989.00

Contractor Name: Russ Thompson Excavating, Inc

Signature: Danna Holzmer

Date: 6-8-2020

From: Ken Shimko <kshimko.meridianenv@gmail.com>
Sent: Monday, June 08, 2020 10:45 AM
To: Stoltz, Carrie R - DNR
Subject: Doug's Tire (former) - abandon EX2,3,6,8,9
Attachments: Change Order - abandon extraction wells EX2,3,6,8,9.pdf

Please see attached.

We will have to deal with manways in separate change order.

Thanks

Kenneth Shimko, PG
Meridian Environmental Consulting, LLC
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Fall Creek, Wisconsin 54742
(715)832-6608 (office)
(715)579-0723 (cell)
Email: kshimko.meridianenv@gmail.com



Meridian Environmental Consulting, LLC

June 8, 2020

Carrie Stoltz
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhineland, Wisconsin 54501

Subject: Change Order: Abandon Extraction Wells EX-2, EX-3, EX-6, EX-8, EX-9
Doug's Tire Center (former)
Ladysmith, Wisconsin
PECFA # 54848-1215-11-A
DNR BRRTS # 03-55-000408
Meridian No. 05F786

Scope of Work

- Abandon extraction wells EX-2, EX-3, EX-6, EX-8, EX-9

The current tenant of this property is Flambeau Auto. Flambeau Auto plans to blacktop the property in a few weeks. This will require monitoring/extraction well manways either be replaced during the blacktop event or removed.

The following extraction wells are not in use and should be abandoned: EX-2, EX-3, EX-6, EX-8, EX-9.

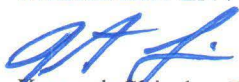
A Change Order for replacing the remaining well manways will be sent separately after DNR determines if the SVE vents can be abandoned.

Cost

The cost for this work is provided on the attached Usual & Customary Cost Schedule. Supporting documentation is attached.

Abandonment of EX-2 will require a local contractor excavate to a depth of 4 feet and cut-off the 8-inch diameter well casing 4 feet below grade. The excavation will be compacted as it is backfilled to grade. A variance will be required for this cost.

Sincerely,
MERIDIAN ENVIRONMENTAL CONSULTING, LLC


Kenneth Shimko, PG
Project Manager



Usual and Customary Standardized Invoice #27

January 2020 - June 2020



RR-0113a-E

PECFA #: 54848-1215-11-A
 BRRS #: 03-55-000408
 Site Name: Doug's Tire Center
 Site Address: Ladysmith

Vendor Name: Change Order
 Invoice #: Change Order
 Invoice Date: June 2, 2020
 Check #: Change Order

U&C Total \$ 1,677.07
 Variance to U&C Total \$ 1,742.04
 Grand Total \$ 3,419.11

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
8	Well Abandonment	Consultant	WAB05	Coordination	Site	\$ 162.86	1	\$ 162.86
8	Well Abandonment	Consultant	WAB10	Water column < 30 ft	Ft	\$ 2.60	130	\$ 338.00
8	Well Abandonment	Consultant	WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	\$ 11.14	33	\$ 367.62
8	Well Abandonment	Consultant	WAB25	Portland Cement (94lb bag)	Bag	\$ 8.44	2	\$ 16.88
8	Well Abandonment	Consultant	WAB30	Primary Mob/Demob	Site	\$ 398.48	1	\$ 398.48
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$ 393.23	1	\$ 393.23
Variance				Excavator (Russ Thompson) to cut-off top 4 ft of EX-2. Backfill & compact.	Task			\$ 989.00
Variance				Meridian - coordinate & oversee EX-2 well abandonment, cut-off, backfill/finish	hr	\$ 94.13	8	\$ 753.04

* Does not include EX-2 - see variance

Abandon Extraction Wells 2, 3, 6, 8, 9

Doug's Tire

Well	Depth	Diameter	Bag Chips
EX-2	35	8	17
EX-3	35	4	4
EX-6	35	4	4
EX-8	30	4	4
EX-9	30	4	4
Total:			33

$$\begin{array}{r} 165 \\ - 35 \text{ (EX-2)} \\ \hline 130 \end{array}$$

**Application
Amounts**

**Amounts of HOLEPLUG®* Graded Sodium Bentonite Required for
Plugging Applications**

Hole Diameter (inches)	Hole Volume (ft ³ /ft)	Pounds HOLEPLUG bentonite Needed to Fill One Foot	Feet Filled by One Bag HOLEPLUG bentonite	Bags HOLEPLUG bentonite Needed to Fill 100 ft
2	0.022	1.6	32.6	3.2
2.5	0.034	2.4	20.5	5.0
3	0.049	3.5	14.3	7.0
3.5	0.067	4.8	10.4	9.6
4	0.087	6.3	7.9	12.6
4.5	0.110	7.9	6.3	15.8
5	0.136	9.8	5.1	19.6
5.5	0.165	11.9	4.2	23.8
6	0.196	14.1	3.5	28.2
6.5	0.230	16.6	3.0	33.2
7	0.267	19.2	2.6	38.4
7.5	0.307	22.1	2.3	44.2
8	0.349	25.1	2.0	50.2
8.5	0.394	28.4	1.8	56.8
9	0.442	31.8	1.6	63.6
9.5	0.492	35.4	1.4	70.8
10	0.545	39.2	1.3	78.4
11	0.660	47.5	1.1	95.0
12	0.785	56.5	0.89	113.0
15	1.227	88.3	0.57	176.6
18	1.767	127.2	0.39	254.4
20	2.182	157.1	0.32	314.2
25	3.409	245.4	0.20	490.8
30	4.909	353.4	0.14	706.8

**The above calculations and resultant volumes of material required assume a gauge bore hole and are based on the use of HOLEPLUG 3/8" sodium bentonite where the average bulk density per bag is 0.7 ft³/50-lb bag. Required material volumes for HOLEPLUG 3/4" will differ slightly for the same size bore hole. In the event that questions arise or further information is needed, please contact your local Baroid IDP Representative for assistance*

SOIL BORING LOG

FACILITY NAME DOUGS TIRE			LICENCE/PERMIT/MONITORING NUMBER		
FACILITY ADDRESS CORNER OF U.S.H. "8" & S.T.H. "27"					
BORING DRILLED BY TOM BUTTERFIELD WELL DRILLING HAYWARD, WI			DATE (MM/DD/YY) 01/19/92		
FACILITY WELL NUMBER EX 2	WI UNIQUE WELL NUMBER	BOREHOLE DIAMETER 18 I.D. METHOD AUGER	WATER LEVEL SURFACE ELEVATION		
SOIL BORING LOG AS DESCRIBED BY DRILLER.		COUNTY RUSK	COUNTY CODE		
CIVIL TOWN CITY OF LADYSMITH		METHOD OF PLACING SEALING MATERIAL ☐ CONDUCTOR PIPE-GRAVITY ☐ DUMP BAILER ☐ CONDUCTOR PIPE-PUMPED ☒ OTHER (EXPLAIN) GRAVITY			
SEALING MATERIAL USED	FROM (FT.)	TO (FT.)	NO. YARDS, SACKS SEALANT OR VOLUME	MIX RATIO OR MUD WEIGHT	

SAMPLE		DEPTH H	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE		DEPTH H	GRAPHIC LOG	SOIL/ROCK DESCRIPTION
NO.	HEAD SPACE				NO.	HEAD SPACE			
				0' - 1.2' BLACKTOP 1.2' - 4' BLACK ORGANIC			22'		
				4' - 7.5' GRAYISH SILTY CLAY MED. DENSE					25.0' - 26.5' BLACK TO GRAYISH GREEN SILTY CLAY WITH LOTS OF GASOLINE. AUGERS FULL OF GAS
				7.5' - 12.5' DARK BROWN SILTS, SMALL AMOUNT OF GRAVEL, FINE SAND (GETTING CLEANER)					26.5' - 35.0' SAND AND GRAVEL REDDISH BROWN WITH SILT.
		10'		12.5' - 13.5' SAND GRAVEL, SILT. 2" ROUND GRAVEL (GAS ODOR)					
		15'		13.5' - 16.5' SAND GRAVEL MED. TO REDDISH BROWN, LESS SILT SOME GRAVEL.					
				16.5' - 17.5' DARKER GRAVEL (NO SAMPLE) GAS ODOR					
		20'		17.5' - 25.0' MED. BROWN SAND GRAVEL, MED. DENSE, LITTLE SILT (GAS ODOR)					
									35' E.O.B.

LEGEND

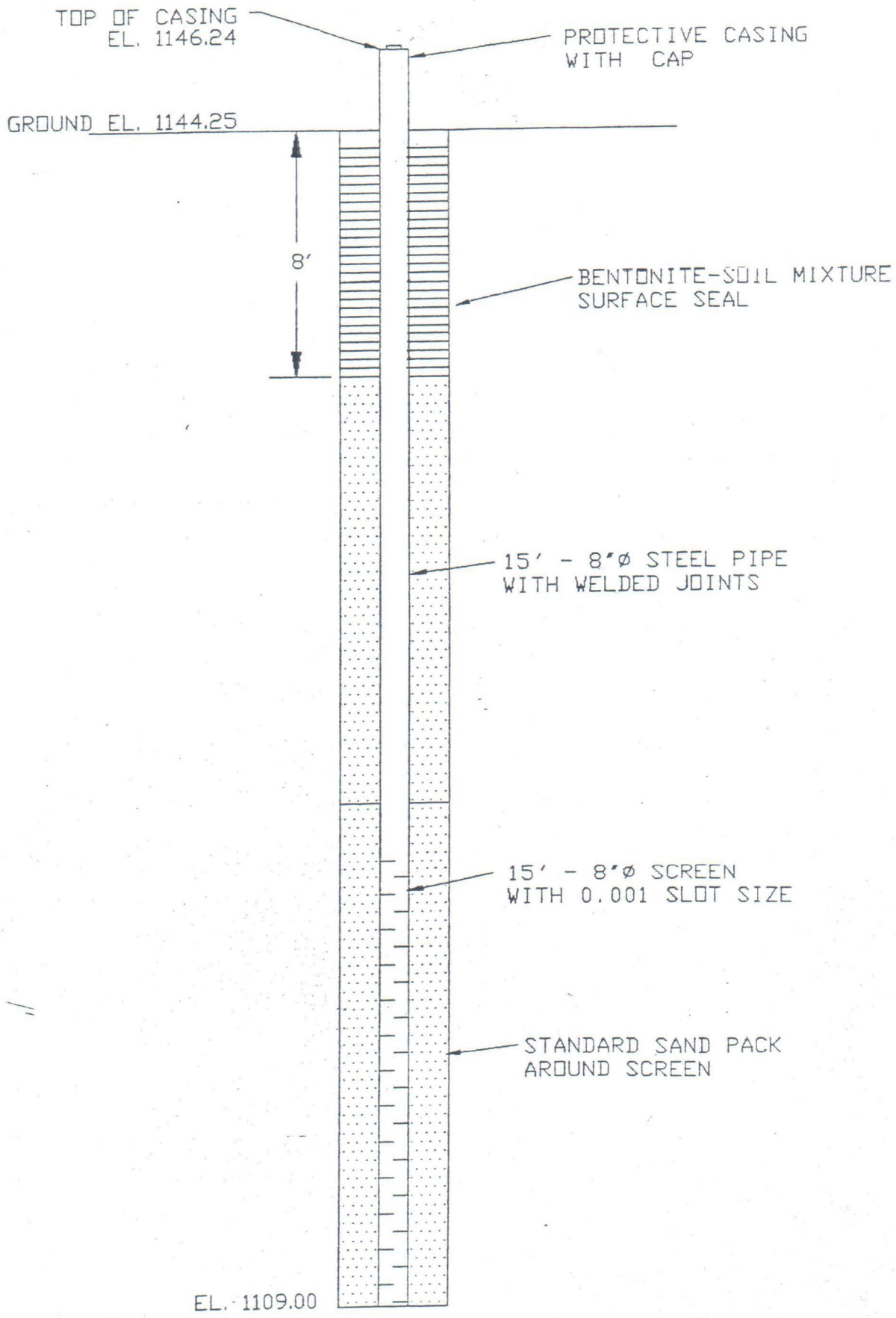
HS = HEADSPACE SAMPLE

L = LAB SAMPLE

SCALE: 1/4" = 1'



COOPER ENGINEERING COMPANY
 100 WEST ORCHARD BEACH LANE RICE LAKE, WISCONSIN
 TELEPHONE 715-234-7008



EXTRACTION WELL #2



Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

City/Project Name <u>Doug's Tire</u>	Local Grid Location of Well ft. ☐ N. ☐ S. ☐ E. ☐ W.	Well Name <u>Ex-3</u>
City License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. _____ Long. _____ or _____	Wis. Unique Well No. <u>PJ996</u> DNR Well ID No. _____
City ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>11/02/2002</u> m m d d y y y y
Type of Well Well Code <u>64, 1e</u>	Section Location of Waste/Source <u>SE 1/4 of SW 1/4 of Sec. 34, T. 34 N. R. 6</u> ☐ E ☒ W	Well Installed By: Name (first, last) and Firm <u>Todd</u> <u>Boat Longyear</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	
Enf. Stds. Apply ☐	Gov. Lot Number _____	

Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? ☒ Yes ☐ No
Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
Land surface elevation _____ ft. MSL	b. Length: _____ ft.
Surface seal, bottom _____ ft. MSL or _____ ft.	c. Material: Steel ☒ 04 Other ☐
USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☐	d. Additional protection? ☐ Yes ☒ No If yes, describe: _____
Sieve analysis performed? ☐ Yes ☒ No	3. Surface seal: Bentonite ☐ 30 Concrete ☐ 01 Other ☒
Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☒ 41 Other ☐	4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐
Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☒ 99	5. Annular space seal: a. Granular/Chipped 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. <u>4.32</u> Ft ³ volume added for any of the above
Drilling additives used? ☐ Yes ☒ No	f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
Describe _____	6. Bentonite seal: a. Bentonite granules ☐ 33 b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32 Other ☐
Source of water (attach analysis, if required): _____	7. Fine sand material: Manufacturer, product name & mesh size b. Volume added <u>0.54</u> ft ³
Bentonite seal, top _____ ft. MSL or <u>4.0</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size b. Volume added <u>11.9</u> ft ³
Gravel sand, top _____ ft. MSL or <u>12.0</u> ft.	9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐
Filter pack, top _____ ft. MSL or <u>13.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
Screen joint, top _____ ft. MSL or <u>15.0</u> ft.	b. Manufacturer <u>Dick</u> c. Slot size: <u>0.010</u> in.
Well bottom _____ ft. MSL or <u>35.0</u> ft.	d. Slotted length: <u>20.0</u> ft.
Filter pack, bottom _____ ft. MSL or <u>35.0</u> ft.	11. Backfill material (below filter pack): None ☒ 14 Other ☐
Gravel, bottom _____ ft. MSL or <u>35.0</u> ft.	
Well diameter <u>10 1/4</u> in.	
I.D. well casing <u>4.50</u> in.	
O.D. well casing <u>3.99</u> in.	

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

Name Jennifer Doncier Firm Envirogen

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

City/Project Name <u>Doug's Tire</u>	Local Grid Location of Well ft. ☐ N. ☐ S. ☐ E. ☐ W.	Well Name <u>Ex-6</u>
City License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. _____ Long. _____ or _____	Wis. Unique Well No. <u>PJ999</u> DNR Well ID No. _____
City ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>11/03/2002</u>
Type of Well Well Code <u>64, 1e</u>	Section Location of Waste/Source <u>SE 1/4 of SW 1/4 of Sec. 34, T. 34 N. R. 6</u> ☐ E ☒ W	Well Installed By: Name (first, last) and Firm <u>Todd</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number _____
Enf. Stds. Apply ☐		<u>Brent Longyear</u>

Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? ☒ Yes ☐ No
Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
Land surface elevation _____ ft. MSL	b. Length: _____ ft.
Surface seal, bottom _____ ft. MSL or _____ ft.	c. Material: _____ Steel ☒ 04 Other ☐
USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☒ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☐	d. Additional protection? ☐ Yes ☒ No If yes, describe: _____
Soil analysis performed? ☐ Yes ☒ No	3. Surface seal: _____ Bentonite ☐ 30 Concrete ☐ 01 Other ☒
Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☒ 41 Other ☐	4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐
Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☒ 99	5. Annular space seal: a. Granular/Chipped 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. <u>432</u> Ft ³ volume added for any of the above
Drilling additives used? ☐ Yes ☒ No	f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
Describe _____	6. Bentonite seal: a. Bentonite granules ☐ 33 b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 32 c. _____ Other ☐
Source of water (attach analysis, if required): _____	7. Fine sand material: Manufacturer, product name & mesh size _____ b. Volume added <u>0.54</u> ft ³
Bentonite seal, top _____ ft. MSL or <u>40</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size _____ b. Volume added <u>11.9</u> ft ³
Sand, top _____ ft. MSL or <u>12.0</u> ft.	9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐
Gravel, top _____ ft. MSL or <u>13.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
Screen joint, top _____ ft. MSL or <u>15.0</u> ft.	b. Manufacturer <u>Pietrick</u>
Well bottom _____ ft. MSL or <u>35.0</u> ft.	c. Slot size: <u>0.010</u> in.
Gravel, bottom _____ ft. MSL or <u>35.0</u> ft.	d. Slotted length: <u>22.0</u> ft.
Chole, bottom _____ ft. MSL or <u>35.0</u> ft.	11. Backfill material (below filter pack): None ☒ 14 Other ☐
Chole, diameter <u>10 1/4</u> in.	
D. well casing <u>4.50</u> in.	
t. well casing <u>3.99</u> in.	

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

Signature: Jennifer Dancier Firm: Enviroga

Complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file returns may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be

Facility/Project Name Doe's Tire	Local Grid Location of Well ft. ☐ N. ☐ S. ☐ E. ☐ W.	Well Name EX-8
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐	Wis. Unique Well No. DNR Well ID No.
Facility ID	Lat. " Long. " or	Date Well Installed 9/21/2019 m m d d y y v v v
Type of Well	St. Plane ft. N. ft. E. S/C/N	Well Installed By: Name (first, last) and Firm Joe Black PSI
Well Code /	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. ☐ E ☐ W	
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	
Enf. Stds. Apply ☐	Gov. Lot Number	

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 performed? ☐ Yes ☒ No

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

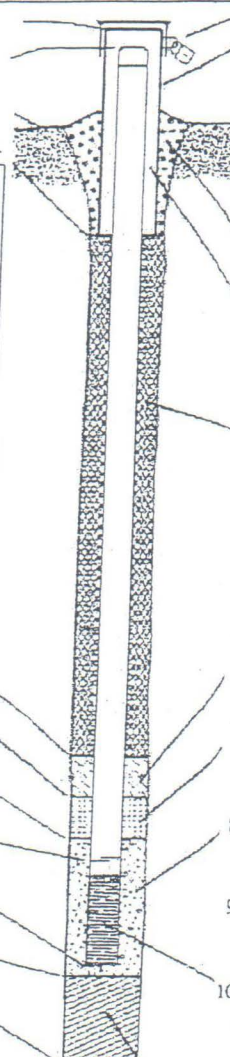
15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☐ No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top _____ ft. MSL or **12** ft.
F. Fine sand, top _____ ft. MSL or **12** ft.
G. Filter pack, top _____ ft. MSL or **12** ft.
H. Screen joint, top _____ ft. MSL or **15** ft.
I. Well bottom _____ ft. MSL or **30** ft.
J. Filter pack, bottom _____ ft. MSL or **30** ft.
K. Borehole, bottom _____ ft. MSL or **30** ft.
L. Borehole, diameter **10** in.
M. O.D. well casing **4** in.
N. I.D. well casing **4** in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: **8** in.
b. Length: **1** ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 20
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Other ☐

5. Annular space seal: a. Granular/Chipped 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. _____ 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 chips ☐ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ 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 _____
c. Slot size: **0.1** in.
d. Slotted length: **15** 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 **[Signature]** Firm **Mendota Environmental & Hy**

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

Facility/Project Name Doug's Tire	Local Grid Location of Well ft. ☐ N ☐ S ☐ E ☐ W	Well Name EX-9
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. _____ Long. _____ or _____	Wis. Unique Well No. DNR Well ID No.
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 9/21/2019 m m d d y y y y
Type of Well Well Code _____ / _____	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. ☐ E ☐ W	Well Installed By: Name (first, last) and Firm Joe Black PSI
Distance from Waste/Source _____ ft.	Enf. Stds. Apply ☐	
	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 ☐

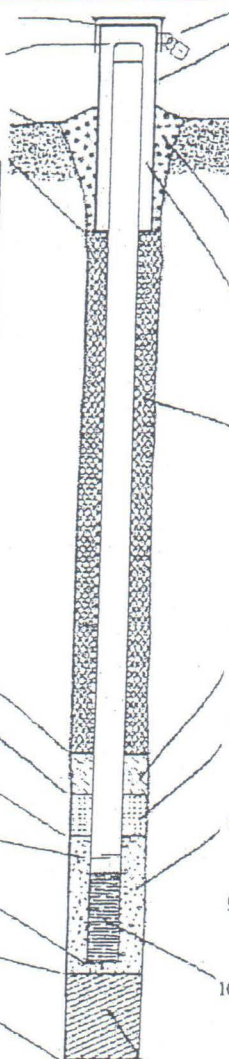
13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5.0
Hollow Stem Auger ☒ 4.1
Other ☐

15. Drilling fluid used: Water ☐ 0.2 Air ☐ 0.1
Drilling Mud ☐ 0.3 None ☒ 9.9

16. Drilling additives used? ☐ Yes ☐ No
Describe _____

17. Source of water (attach analysis, if required): _____



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 0.4
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 3.0
Concrete ☒ 0.1
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 3.0
Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3.3
b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry ☐ 3.5
c. _____ Lbs/gal mud weight _____ Bentonite slurry ☐ 3.1
d. _____ % Bentonite _____ Bentonite-cement grout ☐ 5.0
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0.1
Tremie pumped ☐ 0.2
Gravity ☒ 0.8
6. Bentonite seal: a. Bentonite granules ☐ 3.3
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3.2
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 2.3
Flush threaded PVC schedule 80 ☐ 2.4
Other ☐
10. Screen material: **PVC**
a. Screen type: Factory cut ☒ 1.1
Continuous slot ☐ 0.1
Other ☐
b. Manufacturer _____
c. Slot size: _____ in.
d. Slotted length: _____ ft.
11. Backfill material (below filter pack): None ☒ 1.4
Other ☐

E. Bentonite seal, top _____ ft. MSL or **12** ft.
F. Fine sand, top _____ ft. MSL or **12** ft.
G. Filter pack, top _____ ft. MSL or **12** ft.
H. Screen joint, top _____ ft. MSL or **15** ft.
I. Well bottom _____ ft. MSL or **30** ft.
J. Filter pack, bottom _____ ft. MSL or **30** ft.
K. Borehole, bottom _____ ft. MSL or **30** ft.
L. Borehole, diameter **10** in.
M. O.D. well casing **4** in.
N. I.D. well casing **4** in.

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

Signature Firm **Mendota Environmental & Hy**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.