

Appendix C

MINNESOTA DEPARTMENT OF HEALTH
WELL INDEX LOG



110412

County Ramsey
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 08/14/1991
 Update Date 12/29/2020
 Received Date

<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Well Name</td> <td>Township</td> <td>Range</td> <td>Dir Section</td> <td>Subsection</td> </tr> <tr> <td>ST. PAUL</td> <td>28</td> <td>22</td> <td>W 12</td> <td>DDCCBB</td> </tr> <tr> <td>Elevation</td> <td>1047</td> <td>Elev. Method</td> <td colspan="2">7.5 minute topographic map (+/- 5 feet)</td> </tr> <tr> <td colspan="5">Address</td> </tr> <tr> <td colspan="5">C/W 2621 LINWOOD AV E ST PAUL MN</td> </tr> <tr> <td colspan="5">Stratigraphy Information</td> </tr> <tr> <td>Geological Material</td> <td>From</td> <td>To (ft.)</td> <td>Color</td> <td>Hardness</td> </tr> <tr> <td>CLAY</td> <td>0</td> <td>2</td> <td>BROWN</td> <td>SOFT</td> </tr> <tr> <td>SAND</td> <td>2</td> <td>27</td> <td>LT. BRN</td> <td>SOFT</td> </tr> <tr> <td>CLAY & BOULDERS</td> <td>27</td> <td>85</td> <td>BLU/GRN</td> <td>SOFT</td> </tr> <tr> <td>CLAY</td> <td>85</td> <td>92</td> <td>DK. BRN</td> <td>MEDIUM</td> </tr> <tr> <td>SOAPSTONE</td> <td>92</td> <td>141</td> <td>BLU/GRY</td> <td>SFT-HRD</td> </tr> </table>	Well Name	Township	Range	Dir Section	Subsection	ST. PAUL	28	22	W 12	DDCCBB	Elevation	1047	Elev. Method	7.5 minute topographic map (+/- 5 feet)		Address					C/W 2621 LINWOOD AV E ST PAUL MN					Stratigraphy Information					Geological Material	From	To (ft.)	Color	Hardness	CLAY	0	2	BROWN	SOFT	SAND	2	27	LT. BRN	SOFT	CLAY & BOULDERS	27	85	BLU/GRN	SOFT	CLAY	85	92	DK. BRN	MEDIUM	SOAPSTONE	92	141	BLU/GRY	SFT-HRD	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Well Depth</td> <td>Depth Completed</td> <td>Date Well Completed</td> </tr> <tr> <td>141 ft.</td> <td>141 ft.</td> <td>03/28/1975</td> </tr> <tr> <td>Drill Method</td> <td>Non-specified Rotary</td> <td>Drill Fluid</td> </tr> <tr> <td>Use</td> <td>other (specify in remarks)</td> <td>Status Active</td> </tr> <tr> <td>Well Hydrofractured?</td> <td>Yes <input type="checkbox"/> No <input type="checkbox"/></td> <td>From To</td> </tr> <tr> <td>Casing Type</td> <td>Single casing</td> <td>Joint Threaded</td> </tr> <tr> <td>Drive Shoe?</td> <td>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> <td>Above/Below 1 ft.</td> </tr> <tr> <td>Casing Diameter</td> <td>Weight</td> <td>Hole Diameter</td> </tr> <tr> <td>4 in. To 114 ft. 11 lbs./ft.</td> <td></td> <td>4 in. To 141 ft.</td> </tr> <tr> <td>Open Hole</td> <td>From 114 ft. To 141 ft.</td> <td></td> </tr> <tr> <td>Screen? <input type="checkbox"/></td> <td>Type</td> <td>Make</td> </tr> <tr> <td colspan="3">Static Water Level</td> </tr> <tr> <td>52 ft.</td> <td>land surface</td> <td>Measure 03/28/1975</td> </tr> <tr> <td colspan="3">Pumping Level (below land surface)</td> </tr> <tr> <td>122 ft.</td> <td>2 hrs. Pumping at</td> <td>20 g.p.m.</td> </tr> <tr> <td colspan="3">Wellhead Completion</td> </tr> <tr> <td colspan="2">Pitless adapter manufacturer</td> <td>Model</td> </tr> <tr> <td><input type="checkbox"/> Casing Protection</td> <td><input checked="" type="checkbox"/> 12 in. above grade</td> <td></td> </tr> <tr> <td colspan="3"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified</td> </tr> <tr> <td>Material</td> <td>Amount</td> <td>From To</td> </tr> <tr> <td>bentonite</td> <td>2 Cubic yards</td> <td>0 ft. 114 ft.</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination</td> </tr> <tr> <td>80 feet</td> <td>Northeas Direction</td> <td>Septic tank/drain field Type</td> </tr> <tr> <td colspan="3">Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input checked="" type="checkbox"/> Not Installed Date Installed</td> </tr> <tr> <td colspan="3">Manufacturer's name</td> </tr> <tr> <td>Model Number</td> <td>HP <u>0</u></td> <td>Volt</td> </tr> <tr> <td>Length of drop pipe</td> <td>ft Capacity</td> <td>g.p. Typ</td> </tr> <tr> <td colspan="3">Abandoned</td> </tr> <tr> <td colspan="3">Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Variance</td> </tr> <tr> <td colspan="3">Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Miscellaneous</td> </tr> <tr> <td>First Bedrock</td> <td>Decorah Shale</td> <td>Aquifer Decorah</td> </tr> <tr> <td>Last Strat</td> <td>Decorah Shale</td> <td>Depth to Bedrock 92 ft</td> </tr> <tr> <td colspan="3">Located by Minnesota Geological Survey</td> </tr> <tr> <td colspan="3">Locate Method Digitized - scale 1:24,000 or larger (Digitizing Table)</td> </tr> <tr> <td>System</td> <td>UTM - NAD83, Zone 15, Meters</td> <td>X 500884 Y 4974140</td> </tr> <tr> <td>Unique Number Verification</td> <td>Address verification</td> <td>Input Date 01/01/1990</td> </tr> <tr> <td colspan="3">Angled Drill Hole</td> </tr> <tr> <td colspan="3">Well Contractor</td> </tr> <tr> <td>Mantyla Well Co.</td> <td>82084</td> <td>THRON, R.</td> </tr> <tr> <td>Licensee Business</td> <td>Lic. or Reg. No.</td> <td>Name of Driller</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	141 ft.	141 ft.	03/28/1975	Drill Method	Non-specified Rotary	Drill Fluid	Use	other (specify in remarks)	Status Active	Well Hydrofractured?	Yes <input type="checkbox"/> No <input type="checkbox"/>	From To	Casing Type	Single casing	Joint Threaded	Drive Shoe?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Above/Below 1 ft.	Casing Diameter	Weight	Hole Diameter	4 in. To 114 ft. 11 lbs./ft.		4 in. To 141 ft.	Open Hole	From 114 ft. To 141 ft.		Screen? <input type="checkbox"/>	Type	Make	Static Water Level			52 ft.	land surface	Measure 03/28/1975	Pumping Level (below land surface)			122 ft.	2 hrs. Pumping at	20 g.p.m.	Wellhead Completion			Pitless adapter manufacturer		Model	<input type="checkbox"/> Casing Protection	<input checked="" type="checkbox"/> 12 in. above grade		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified			Material	Amount	From To	bentonite	2 Cubic yards	0 ft. 114 ft.	Nearest Known Source of Contamination			80 feet	Northeas Direction	Septic tank/drain field Type	Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Pump <input checked="" type="checkbox"/> Not Installed Date Installed			Manufacturer's name			Model Number	HP <u>0</u>	Volt	Length of drop pipe	ft Capacity	g.p. Typ	Abandoned			Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			Variance			Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			Miscellaneous			First Bedrock	Decorah Shale	Aquifer Decorah	Last Strat	Decorah Shale	Depth to Bedrock 92 ft	Located by Minnesota Geological Survey			Locate Method Digitized - scale 1:24,000 or larger (Digitizing Table)			System	UTM - NAD83, Zone 15, Meters	X 500884 Y 4974140	Unique Number Verification	Address verification	Input Date 01/01/1990	Angled Drill Hole			Well Contractor			Mantyla Well Co.	82084	THRON, R.	Licensee Business	Lic. or Reg. No.	Name of Driller
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110433

County Washington
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 03/01/1989
 Update Date 02/14/2014
 Received Date

Well Name CADALBERT,	Township 28	Range 21	Dir Section W 7	Subsection CCCBAD	Well Depth 141 ft.	Depth Completed 141 ft.	Date Well Completed 06/30/1975
Elevation 1040	Elev. Method 7.5 minute topographic map (+/- 5 feet)				Drill Method Non-specified Rotary	Drill Fluid	
Address C/W 486 CENTURY AV WOODBURY MN					Use domestic	Status Active	
Stratigraphy Information					Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> From To		
Geological Material From To (ft.) Color Hardness					Casing Type Single casing Joint Threaded		
CLAY & GRAVEL 0 58 RED SFT-HRD					Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Above/Below 1 ft.		
CLAY (SANDY) 58 77 BROWN SOFT					Casing Diameter Weight		
CLAY 77 86 GRAY SOFT					4 in. To 112 ft. 11 lbs./ft.		
SOAPSTONE 86 141 BLU/GRN MEDIUM					Open Hole From 112 ft. To 141 ft.		
					Screen? <input type="checkbox"/> Type Make		
					Static Water Level		
					71 ft. land surface Measure 06/30/1975		
					Pumping Level (below land surface)		
					75 ft. 1.5 hrs. Pumping at 15 g.p.m.		
					Wellhead Completion		
					Pitless adapter manufacturer Model		
					<input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade		
					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified		
					Material Amount From To		
					bentonite 1.5 Cubic yards 0 ft. 112 ft.		
					Nearest Known Source of Contamination		
					85 feet Southwes Direction Septic tank/drain field Type		
					Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
					Pump <input type="checkbox"/> Not Installed Date Installed 07/11/1975		
					Manufacturer's name REDA PUMP CO.		
					Model Number 12D9P071 HP 0.75 Volt 230		
					Length of drop pipe 115 ft Capacity 14 g.p. Typ Submersible		
					Abandoned		
					Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Variance		
					Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Miscellaneous		
					First Bedrock Decorah-Platteville Aquifer Decorah-		
					Last Strat Decorah-Platteville Depth to Bedrock 86 ft		
					Located by Minnesota Geological Survey		
					Locate Method Digitized - scale 1:24,000 or larger (Digitizing Table)		
					System UTM - NAD83, Zone 15, Meters X 501286 Y 4974199		
					Unique Number Verification Address verification Input Date 01/01/1990		
					Angled Drill Hole		
					Well Contractor		
					Mantyla Well Co. 82084 THRON, R.		
					Licensee Business Lic. or Reg. No. Name of Driller		

133503

County Ramsey
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 08/14/1991
 Update Date 12/29/2020
 Received Date

Well Name SELBITSHKA	Township 28	Range 22	Dir Section W 13	Subsection AAABAA	Well Depth 315 ft.	Depth Completed 315 ft.	Date Well Completed 06/02/1978
Elevation 1027	Elev. Method LiDAR 1m DEM (MNDNR)				Drill Method Non-specified Rotary	Drill Fluid	
Address C/W 2710 LINWOOD AV E MAPLEWOOD MN					Use domestic	Status Active	
Stratigraphy Information					Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/>	From To	
Geological Material From To (ft.) Color Hardness					Casing Type Single casing	Joint Threaded	
CLAY & GRAVEL 0 80 BROWN SFT-HRD					Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Above/Below 1 ft.	
CLAY 80 130 GRAY MEDIUM					Casing Diameter 4 in. To	Weight 286 ft. 11 lbs./ft.	Hole Diameter 4 in. To 315 ft.
LIMEROCK 130 160 GRY/WHT HARD					Open Hole From 286 ft. To 315 ft.		
SANDROCK 160 315 YEL/BRN MEDIUM					Screen? <input type="checkbox"/>	Type Make	
					Static Water Level 245 ft. land surface Measure 06/02/1978		
					Pumping Level (below land surface) 247 ft. 1.5 hrs. Pumping at 15 g.p.m.		
					Wellhead Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified		
					Material	Amount	From To
					cuttings	4.5 Cubic yards	10 ft. 286 ft.
					bentonite	4.5 Cubic yards	10 ft. 286 ft.
					Nearest Known Source of Contamination 52 feet Southeast Direction Sewer Type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
					Pump <input type="checkbox"/> Not Installed Date Installed 06/23/1978 Manufacturer's name GOULD PUMP CO. Model Number 7EH10 HP 1 Volt 230 Length of drop pipe 260 ft Capacity 12 g.p. Typ Submersible		
					Abandoned Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Miscellaneous First Bedrock Decorah Shale Aquifer St.Peter Last Strat St.Peter Sandstone Depth to Bedrock 80 ft Located by Minnesota Geological Survey Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or System UTM - NAD83, Zone 15, Meters X 501118 Y 4974020 Unique Number Verification Address verification Input Date 01/01/1990		
Remarks					Angled Drill Hole		
					Well Contractor Mantyla Well Co. 82084 SANDERS, G. Licensee Business Lic. or Reg. No. Name of Driller		
Minnesota Well Index Report					133503		Printed on 03/10/2025 HE-01205-15

142328

County Ramsey
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 08/14/1991
 Update Date 12/29/2020
 Received Date

Well Name THEISSEN,	Township 28	Range 22	Dir Section W 13	Subsection AAABAC	Well Depth 155 ft.	Depth Completed 155 ft.	Date Well Completed 01/17/1978
Elevation 1037	Elev. Method	LiDAR 1m DEM (MNDNR)			Drill Method	Non-specified Rotary	Drill Fluid
Address C/W 2698 LINWOOD AV E ST PAUL MN					Use	domestic	Status Active
Stratigraphy Information					Well Hydrofractured?	Yes <input type="checkbox"/> No <input type="checkbox"/>	From To
Geological Material From To (ft.) Color Hardness					Casing Type	Single casing	Joint Threaded
CLAY & BOULDERS 0 85 BROWN SFT-HRD					Drive Shoe?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Above/Below 1 ft.
SOAPSTONE 85 155 BLU/GRY MEDIUM					Casing Diameter	Weight	Hole Diameter
					4 in. To 140 ft. 11 lbs./ft.		4 in. To 155 ft.
					Open Hole	From 140 ft. To 155 ft.	
					Screen? <input type="checkbox"/>	Type	Make
					Static Water Level	65 ft. land surface	Measure 01/17/1978
					Pumping Level (below land surface)	68 ft. 2 hrs. Pumping at	15 g.p.m.
					Wellhead Completion	Pitless adapter manufacturer	Model
					<input type="checkbox"/> Casing Protection	<input checked="" type="checkbox"/> 12 in. above grade	
					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
					Grouting Information	Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Specified	
					Nearest Known Source of Contamination	85 feet South Direction	Septic tank/drain field Type
					Well disinfected upon completion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
					Pump <input type="checkbox"/> Not Installed	Date Installed	01/20/1978
					Manufacturer's name	REDA-PUMP CO.	
					Model Number	12D9P071	HP 0.75 Volt 230
					Length of drop pipe	130 ft	Capacity 12 g.p. Typ Submersible
					Abandoned	Does property have any not in use and not sealed well(s)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
					Variance	Was a variance granted from the MDH for this well?	<input type="checkbox"/> Yes <input type="checkbox"/> No
					Miscellaneous	First Bedrock Decorah-Platteville	Aquifer Platteville
					Last Strat	Platteville Formation	Depth to Bedrock 85 ft
					Located by	Minnesota Geological Survey	
					Locate Method	Digitization (Screen) - Map (1:24,000) (15 meters or	
					System	UTM - NAD83, Zone 15, Meters	X 501084 Y 4974014
					Unique Number Verification	Address verification	Input Date 01/01/1990
					Angled Drill Hole		
					Well Contractor	Mantyla Well Co.	82084 SANDERS, G.
					Licensee Business	Lic. or Reg. No.	Name of Driller
Remarks					142328		
Minnesota Well Index Report					Printed on 03/10/2025 HE-01205-15		

401868

County Ramsey
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 01/29/1990
 Update Date 12/29/2020
 Received Date

Well Name HANSON,	Township 28	Range 22	Dir Section W 13	Subsection AABBAA	Well Depth 325 ft.	Depth Completed 325 ft.	Date Well Completed 03/19/1984
Elevation 1049	Elev. Method	LiDAR 1m DEM (MNDNR)			Drill Method	Non-specified Rotary	Drill Fluid
Address C/W 2632 LINWOOD AV E MAPLEWOOD MN					Use	domestic	Status Active
Stratigraphy Information					Well Hydrofractured?	Yes <input type="checkbox"/> No <input type="checkbox"/>	From To
Geological Material					Casing Type	Single casing	Joint Welded
CLAY					Drive Shoe?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Above/Below 1 ft.
SAND					Casing Diameter	Weight	Hole Diameter
SOAPSTONE					4 in. To	270 ft. 10.7 lbs./ft.	8 in. To 270 ft.
LIMEROCK							4 in. To 325 ft.
SANDROCK VARIED TO							
					Open Hole	From 270 ft. To 325 ft.	
					Screen? <input type="checkbox"/>	Type	Make
					Static Water Level	265 ft. land surface	Measure 03/19/1984
					Pumping Level (below land surface)	270 ft. 2 hrs. Pumping at	25 g.p.m.
					Wellhead Completion	Pitless adapter manufacturer	WHITEWATER Model SU-4
					<input type="checkbox"/> Casing Protection	<input checked="" type="checkbox"/> 12 in. above grade	
					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
					Grouting Information	Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified	
					Material	Amount	From To
					neat cement	0	10 ft. 270 ft.
					Nearest Known Source of Contamination	<u>65</u> feet <u>Northwes</u> Direction	<u>Septic tank/drain field</u> Type
					Well disinfected upon completion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
					Pump <input type="checkbox"/> Not Installed	Date Installed	<u>03/20/1984</u>
					Manufacturer's name	STANDARD PUMP CO.	
					Model Number	<u>23D9P151</u>	HP <u>1.5</u> Volt <u>230</u>
					Length of drop pipe	<u>310</u> ft	Capacity <u>10</u> g.p. Typ <u>Submersible</u>
					Abandoned	Does property have any not in use and not sealed well(s)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
					Variance	Was a variance granted from the MDH for this well?	<input type="checkbox"/> Yes <input type="checkbox"/> No
					Miscellaneous	First Bedrock	Decorah Shale
					Last Strat	St.Peter Sandstone	Aquifer St.Peter
					Located by	Minnesota Geological Survey	Depth to Bedrock 105 ft
					Locate Method	Digitized - scale 1:24,000 or larger (Digitizing Table)	
					System	UTM - NAD83, Zone 15, Meters	X 500906 Y 4974008
					Unique Number Verification	Address verification	Input Date 01/01/1990
					Angled Drill Hole		
					Well Contractor	Mantyla Well Co.	82084 MANTYLA, E.
					Licensee Business	Lic. or Reg. No.	Name of Driller
Remarks					401868		
Minnesota Well Index Report					Printed on 03/10/2025 HE-01205-15		

531419

County Washington
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 01/13/1997
 Update Date 03/25/2014
 Received Date

Well Name BRUNNER, MIKE 28	Township 21	Range W 7	Dir Section CCCBAB	Subsection CCCBAB	Well Depth 345 ft.	Depth Completed 345 ft.	Date Well Completed 03/11/1994																																			
Elevation 1040	Elev. Method 7.5 minute topographic map (+/- 5 feet)				Drill Method Non-specified Rotary	Drill Fluid Bentonite																																				
Address C/W 1905 CENTURY AV S WOODBURY MN 55125					Use domestic	Status Active																																				
Stratigraphy Information					Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> From To																																					
<table border="1"> <thead> <tr> <th>Geological Material</th> <th>From</th> <th>To (ft.)</th> <th>Color</th> <th>Hardness</th> </tr> </thead> <tbody> <tr> <td>CLAY & GRAVEL</td> <td>0</td> <td>50</td> <td>BROWN</td> <td>MEDIUM</td> </tr> <tr> <td>CLAY</td> <td>50</td> <td>127</td> <td>GRAY</td> <td>MEDIUM</td> </tr> <tr> <td>LIMEROCK</td> <td>127</td> <td>158</td> <td>GRAY</td> <td>HARD</td> </tr> <tr> <td>SANDROCK</td> <td>158</td> <td>274</td> <td>WHITE</td> <td>MEDIUM</td> </tr> <tr> <td>LIMEROCK</td> <td>274</td> <td>296</td> <td>YELLOW</td> <td>HARD</td> </tr> <tr> <td>SANDROCK</td> <td>296</td> <td>345</td> <td>BROWN</td> <td>MED-HRD</td> </tr> </tbody> </table>					Geological Material	From	To (ft.)	Color	Hardness	CLAY & GRAVEL	0	50	BROWN	MEDIUM	CLAY	50	127	GRAY	MEDIUM	LIMEROCK	127	158	GRAY	HARD	SANDROCK	158	274	WHITE	MEDIUM	LIMEROCK	274	296	YELLOW	HARD	SANDROCK	296	345	BROWN	MED-HRD	Casing Type Single casing Joint Welded		
Geological Material	From	To (ft.)	Color	Hardness																																						
CLAY & GRAVEL	0	50	BROWN	MEDIUM																																						
CLAY	50	127	GRAY	MEDIUM																																						
LIMEROCK	127	158	GRAY	HARD																																						
SANDROCK	158	274	WHITE	MEDIUM																																						
LIMEROCK	274	296	YELLOW	HARD																																						
SANDROCK	296	345	BROWN	MED-HRD																																						
					Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Above/Below																																					
					Casing Diameter Weight Hole Diameter																																					
					4 in. To 306 ft. 10.7 lbs./ft. 8 in. To 306 ft.																																					
					4 in. To 345 ft.																																					
					Open Hole From 306 ft. To 345 ft.																																					
					Screen? <input type="checkbox"/> Type Make																																					
					Static Water Level																																					
					245 ft. land surface Measure 03/11/1994																																					
					Pumping Level (below land surface)																																					
					283 ft. 1 hrs. Pumping at 30 g.p.m.																																					
					Wellhead Completion																																					
					Pitless adapter manufacturer MAASS Model 4J1																																					
					<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade																																					
					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)																																					
					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified																																					
					Material Amount From To																																					
					neat cement 74 Sacks 0 ft. 306 ft.																																					
					Nearest Known Source of Contamination																																					
					50 feet Northeast Direction Septic tank/drain field Type																																					
					Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																					
					Pump <input type="checkbox"/> Not Installed Date Installed 03/12/1994																																					
					Manufacturer's name GPM																																					
					Model Number 10G1517 HP 1.5 Volt 230																																					
					Length of drop pipe 283 ft Capacity 10 g.p. Typ Submersible																																					
					Abandoned																																					
					Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
					Variance																																					
					Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No																																					
					Miscellaneous																																					
					First Bedrock Platteville Formation Aquifer Prairie Du Chien																																					
					Last Strat Prairie Du Chien Group Depth to Bedrock 127 ft																																					
					Located by Minnesota Geological Survey																																					
					Locate Method Digitized - scale 1:24,000 or larger - Irregular section																																					
					System UTM - NAD83, Zone 15, Meters X 501259 Y 4974235																																					
					Unique Number Verification Address verification Input Date 07/02/1997																																					
					Angled Drill Hole																																					
					Well Contractor																																					
					Mantyla Well Co. 82084 LYON, R.																																					
					Licensee Business Lic. or Reg. No. Name of Driller																																					

668484

County Ramsey
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 12/18/2002
 Update Date 12/29/2020
 Received Date

Well Name RAMSEY	Township 28	Range 22	Dir Section W 12	Subsection ADDBBC	Well Depth 550 ft.	Depth Completed 550 ft.	Date Well Completed 10/22/2002
Elevation 1025	Elev. Method 7.5 minute topographic map (+/- 5 feet)				Drill Method Non-specified Rotary	Drill Fluid Bentonite	
Address					Use irrigation	Status Active	
Well 601 CENTURY AV S MAPLEWOOD MN					Well Hydrofractured? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> From To		
Contact 2015 VAN DYKE ST N MAPLEWOOD MN 55109					Casing Type Step down Joint Welded		
Stratigraphy Information					Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Above/Below		
Geological Material	From	To (ft.)	Color	Hardness	Casing Diameter	Weight	Hole Diameter
TOP SOIL	0	1			8 in. To 378 ft.	lbs./ft.	20 in. To 130 ft.
SANDY CLAY	1	5	RED/BRN		14 in. To 130 ft.	lbs./ft.	14 in. To 550 ft.
GRAVELS	5	9	RED				
SANDY CLAY	9	40	TAN				
SANDY CLAY	40	59					
CLAY	59	64	BLUE				
CLAY W/SHALE	64	122	GREEN				
ROCK	122	124	GRN/BLK				
SHALE	124	126	GREEN				
BEDROCK	126	128	GRY/GRN				
ROCK	128	150	GRAY	HARD			
PLATTEVILLE	150	153	GRAY				
GLENWOOD	153	159	BLU/GRY	SOFT			
ST PETER	159	272	WHITE	SOFT			
ST PETER	272	285	GRAY	HARD			
SANDSTONE	285	310	GRAY				
SANDSTONE	310	400	TAN	HARD			
SANDSTONE	400	457	LT. GRY	HARD			
JORDAN W/SEAMS OF	457	467	LT. GRY				
JORDAN W/SEAMS OF	467	545	LT. GRY				
SHALE	545	550	GREEN				
					Open Hole From 378 ft. To 550 ft.		
					Screen? <input type="checkbox"/> Type Make		
					Static Water Level		
					232 ft. land surface Measure 09/04/2002		
					Pumping Level (below land surface)		
					295. ft. 24 hrs. Pumping at 300 g.p.m.		
					Wellhead Completion		
					Pitless adapter manufacturer Model		
					<input checked="" type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade		
					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified		
					Material Amount From To		
					neat cement 26 Cubic yards 0 ft. 378 ft.		
					Nearest Known Source of Contamination		
					50 feet Direction Septic tank/drain field Type		
					Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
					Pump <input type="checkbox"/> Not Installed Date Installed 09/25/2002		
					Manufacturer's name CROWN		
					Model Number S6-350-7 HP 40 Volt 460		
					Length of drop pipe 357 ft Capacity 350 g.p. Typ Submersible		
					Abandoned		
					Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
					Variance		
					Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
					Miscellaneous		
					First Bedrock Decorah Shale Aquifer Prairie Du Chien-		
					Last Strat Jordan Sandstone Depth to Bedrock 64 ft		
					Located by Minnesota Geological Survey		
					Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or		
					System UTM - NAD83, Zone 15, Meters X 501042 Y 4974986		
					Unique Number Verification Tag on well Input Date 07/31/2002		
					Angled Drill Hole		
					Well Contractor		
					Thein Well Co. 34625 GRABOWSKI, D.		
					Licensee Business Lic. or Reg. No. Name of Driller		

Remarks
 GAMMA LOGGED 7/31/02. MGS #4179.

670759

County Ramsey
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date
 Update Date 12/29/2020
 Received Date 04/28/2004

<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Well Name</td> <td>Township</td> <td>Range</td> <td>Dir Section</td> <td>Subsection</td> </tr> <tr> <td>ANDERSON,</td> <td>28</td> <td>22</td> <td>W 13</td> <td>AABAAA</td> </tr> <tr> <td>Elevation</td> <td>1043</td> <td>Elev. Method</td> <td colspan="2">LiDAR 1m DEM (MNDNR)</td> </tr> <tr> <td colspan="5">Address</td> </tr> <tr> <td colspan="5">Well 2670 LINWOOD AV MAPLEWOOD MN</td> </tr> <tr> <td colspan="5">Stratigraphy Information</td> </tr> <tr> <td>Geological Material</td> <td>From</td> <td>To (ft.)</td> <td>Color</td> <td>Hardness</td> </tr> <tr> <td>CLAY W/BOULDERS</td> <td>0</td> <td>140</td> <td>BRN/GRY</td> <td>MEDIUM</td> </tr> <tr> <td>LIME ROCK</td> <td>140</td> <td>180</td> <td>GRAY</td> <td>HARD</td> </tr> <tr> <td>SAND ROCK</td> <td>180</td> <td>280</td> <td>WHITE</td> <td>SFT-MED</td> </tr> <tr> <td>SAND ROCK</td> <td>280</td> <td>350</td> <td>YELLOW</td> <td>MEDIUM</td> </tr> </table>	Well Name	Township	Range	Dir Section	Subsection	ANDERSON,	28	22	W 13	AABAAA	Elevation	1043	Elev. Method	LiDAR 1m DEM (MNDNR)		Address					Well 2670 LINWOOD AV MAPLEWOOD MN					Stratigraphy Information					Geological Material	From	To (ft.)	Color	Hardness	CLAY W/BOULDERS	0	140	BRN/GRY	MEDIUM	LIME ROCK	140	180	GRAY	HARD	SAND ROCK	180	280	WHITE	SFT-MED	SAND ROCK	280	350	YELLOW	MEDIUM	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Well Depth</td> <td>Depth Completed</td> <td>Date Well Completed</td> </tr> <tr> <td>350 ft.</td> <td>350 ft.</td> <td>04/14/2004</td> </tr> <tr> <td>Drill Method</td> <td>Non-specified Rotary</td> <td>Drill Fluid Additive (+ Bentonite)</td> </tr> <tr> <td>Use</td> <td>domestic</td> <td>Status Active</td> </tr> <tr> <td>Well Hydrofractured?</td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td>From To</td> </tr> <tr> <td>Casing Type</td> <td>Step down</td> <td>Joint Welded</td> </tr> <tr> <td>Drive Shoe?</td> <td>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> <td>Above/Below</td> </tr> <tr> <td>Casing Diameter</td> <td>Weight</td> <td>Hole Diameter</td> </tr> <tr> <td>4 in. To 332 ft. 10.7 lbs./ft.</td> <td></td> <td>12 in. To 140 ft.</td> </tr> <tr> <td>8 in. To 140 ft. 28.5 lbs./ft.</td> <td></td> <td>8 in. To 332 ft.</td> </tr> <tr> <td></td> <td></td> <td>4 in. To 350 ft.</td> </tr> <tr> <td>Open Hole</td> <td>From 332 ft. To 350 ft.</td> <td></td> </tr> <tr> <td>Screen? <input type="checkbox"/></td> <td>Type</td> <td>Make</td> </tr> <tr> <td colspan="3">Static Water Level</td> </tr> <tr> <td>280 ft.</td> <td>land surface</td> <td>Measure 04/14/2004</td> </tr> <tr> <td colspan="3">Pumping Level (below land surface)</td> </tr> <tr> <td>325 ft.</td> <td>1 hrs. Pumping at</td> <td>30 g.p.m.</td> </tr> <tr> <td colspan="3">Wellhead Completion</td> </tr> <tr> <td>Pitless adapter manufacturer</td> <td>MAASS</td> <td>Model 4J1</td> </tr> <tr> <td><input type="checkbox"/> Casing Protection</td> <td><input checked="" type="checkbox"/> 12 in. above grade</td> <td></td> </tr> <tr> <td colspan="3"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td colspan="3">Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified</td> </tr> <tr> <td>Material</td> <td>Amount</td> <td>From To</td> </tr> <tr> <td>neat cement</td> <td>87 Sacks</td> <td>0 ft. 322 ft.</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination</td> </tr> <tr> <td>50 feet</td> <td>South Direction</td> <td>Septic tank/drain field Type</td> </tr> <tr> <td colspan="3">Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Pump <input type="checkbox"/> Not Installed Date Installed 04/19/2004</td> </tr> <tr> <td colspan="3">Manufacturer's name GPM</td> </tr> <tr> <td>Model Number 15P2019</td> <td>HP 2</td> <td>Volt 230</td> </tr> <tr> <td>Length of drop pipe 325 ft</td> <td>Capacity 15 g.p.</td> <td>Typ Submersible</td> </tr> <tr> <td colspan="3">Abandoned</td> </tr> <tr> <td colspan="3">Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Variance</td> </tr> <tr> <td colspan="3">Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Miscellaneous</td> </tr> <tr> <td>First Bedrock</td> <td>Platteville Formation</td> <td>Aquifer Prairie Du Chien</td> </tr> <tr> <td>Last Strat</td> <td>Prairie Du Chien Group</td> <td>Depth to Bedrock 140 ft</td> </tr> <tr> <td colspan="3">Located by Minnesota Geological Survey</td> </tr> <tr> <td colspan="3">Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or</td> </tr> <tr> <td>System</td> <td>UTM - NAD83, Zone 15, Meters</td> <td>X 501012 Y 4974018</td> </tr> <tr> <td>Unique Number Verification</td> <td>Address verification</td> <td>Input Date 07/31/2008</td> </tr> <tr> <td colspan="3">Angled Drill Hole</td> </tr> <tr> <td colspan="3">Well Contractor</td> </tr> <tr> <td>Mantyla Well Co.</td> <td>82084</td> <td>THRON, R</td> </tr> <tr> <td>Licensee Business</td> <td>Lic. or Reg. No.</td> <td>Name of Driller</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	350 ft.	350 ft.	04/14/2004	Drill Method	Non-specified Rotary	Drill Fluid Additive (+ Bentonite)	Use	domestic	Status Active	Well Hydrofractured?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	From To	Casing Type	Step down	Joint Welded	Drive Shoe?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Above/Below	Casing Diameter	Weight	Hole Diameter	4 in. To 332 ft. 10.7 lbs./ft.		12 in. To 140 ft.	8 in. To 140 ft. 28.5 lbs./ft.		8 in. To 332 ft.			4 in. To 350 ft.	Open Hole	From 332 ft. To 350 ft.		Screen? <input type="checkbox"/>	Type	Make	Static Water Level			280 ft.	land surface	Measure 04/14/2004	Pumping Level (below land surface)			325 ft.	1 hrs. Pumping at	30 g.p.m.	Wellhead Completion			Pitless adapter manufacturer	MAASS	Model 4J1	<input type="checkbox"/> Casing Protection	<input checked="" type="checkbox"/> 12 in. above grade		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified			Material	Amount	From To	neat cement	87 Sacks	0 ft. 322 ft.	Nearest Known Source of Contamination			50 feet	South Direction	Septic tank/drain field Type	Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Pump <input type="checkbox"/> Not Installed Date Installed 04/19/2004			Manufacturer's name GPM			Model Number 15P2019	HP 2	Volt 230	Length of drop pipe 325 ft	Capacity 15 g.p.	Typ Submersible	Abandoned			Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Variance			Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Miscellaneous			First Bedrock	Platteville Formation	Aquifer Prairie Du Chien	Last Strat	Prairie Du Chien Group	Depth to Bedrock 140 ft	Located by Minnesota Geological Survey			Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or			System	UTM - NAD83, Zone 15, Meters	X 501012 Y 4974018	Unique Number Verification	Address verification	Input Date 07/31/2008	Angled Drill Hole			Well Contractor			Mantyla Well Co.	82084	THRON, R	Licensee Business	Lic. or Reg. No.	Name of Driller
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4 in. To 332 ft. 10.7 lbs./ft.		12 in. To 140 ft.																																																																																																																																																																																																
8 in. To 140 ft. 28.5 lbs./ft.		8 in. To 332 ft.																																																																																																																																																																																																
		4 in. To 350 ft.																																																																																																																																																																																																
Open Hole	From 332 ft. To 350 ft.																																																																																																																																																																																																	
Screen? <input type="checkbox"/>	Type	Make																																																																																																																																																																																																
Static Water Level																																																																																																																																																																																																		
280 ft.	land surface	Measure 04/14/2004																																																																																																																																																																																																
Pumping Level (below land surface)																																																																																																																																																																																																		
325 ft.	1 hrs. Pumping at	30 g.p.m.																																																																																																																																																																																																
Wellhead Completion																																																																																																																																																																																																		
Pitless adapter manufacturer	MAASS	Model 4J1																																																																																																																																																																																																
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Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified																																																																																																																																																																																																		
Material	Amount	From To																																																																																																																																																																																																
neat cement	87 Sacks	0 ft. 322 ft.																																																																																																																																																																																																
Nearest Known Source of Contamination																																																																																																																																																																																																		
50 feet	South Direction	Septic tank/drain field Type																																																																																																																																																																																																
Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																																																																																																		
Pump <input type="checkbox"/> Not Installed Date Installed 04/19/2004																																																																																																																																																																																																		
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Length of drop pipe 325 ft	Capacity 15 g.p.	Typ Submersible																																																																																																																																																																																																
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Last Strat	Prairie Du Chien Group	Depth to Bedrock 140 ft																																																																																																																																																																																																
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Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or																																																																																																																																																																																																		
System	UTM - NAD83, Zone 15, Meters	X 501012 Y 4974018																																																																																																																																																																																																
Unique Number Verification	Address verification	Input Date 07/31/2008																																																																																																																																																																																																
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Well Contractor																																																																																																																																																																																																		
Mantyla Well Co.	82084	THRON, R																																																																																																																																																																																																
Licensee Business	Lic. or Reg. No.	Name of Driller																																																																																																																																																																																																
<p>Remarks</p>																																																																																																																																																																																																		

850408

County Ramsey
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 09/07/2020
 Update Date 12/29/2020
 Received Date 09/01/2020

Well Name BRINK, DOUG	Township 28	Range 22	Dir Section W 13	Subsection AAABAB	Well Depth 360 ft.	Depth Completed 360 ft.	Date Well Completed 07/24/2020
Elevation 1037	Elev. Method	LiDAR 1m DEM (MNDNR)			Drill Method	Non-specified Rotary	Drill Fluid Bentonite
Address					Use domestic	Status Active	
Well 2698 LINWOOD AV E MAPLEWOOD MN 55119					Well Hydrofractured?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	From To
Stratigraphy Information					Casing Type Step down	Joint Welded	
Geological Material	From	To (ft.)	Color	Hardness	Drive Shoe?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Above/Below
SOIL	0	3	BLACK	SOFT	Casing Diameter	Weight	Hole Diameter
CLAY & ROCKS	3	50	BROWN	MED-HRD	4 in. To 325 ft.	10.7 lbs./ft.	14 in. To 140 ft.
SAND & GRAVEL	50	56	GRAY	SOFT	8 in. To 140 ft.	28.5 lbs./ft.	8 in. To 320 ft.
CLAY & ROCKS	56	62	BROWN	MED-HRD	Open Hole From 325 ft. To 360 ft.		
DIRTY SAND	62	81	GRAY	SOFT	Screen? <input type="checkbox"/>	Type	Make
SHALE	81	137	BLUE	HARD	Static Water Level		
LIIMESTONE	137	175	GRAY	HARD	251 ft.	land surface	Measure 07/24/2020
SANDSTONE	175	300	WHITE	SOFT	Pumping Level (below land surface)		
SANDSTONE	300	360	WHITE	MED-HRD	260 ft.	2 hrs. Pumping at	15 g.p.m.
Wellhead Completion					Wellhead Completion		
Pitless adapter manufacturer MAASS Model 4JC1					<input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade		
<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)					Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified		
					Material	Amount	From To
					neat cement	4 Cubic yards	ft. 140 ft.
Nearest Known Source of Contamination					Nearest Known Source of Contamination		
52 feet North Direction					Septic tank/drain field Type		
Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Pump <input type="checkbox"/> Not Installed Date Installed 08/01/2020					Pump <input type="checkbox"/> Not Installed Date Installed 08/01/2020		
Manufacturer's name FLOWISE					Manufacturer's name FLOWISE		
Model Number P10S15 HP 1.5 Volt 230					Model Number P10S15 HP 1.5 Volt 230		
Length of drop pipe 300 ft Capacity 10 g.p. Typ Submersible					Length of drop pipe 300 ft Capacity 10 g.p. Typ Submersible		
Abandoned					Abandoned		
Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Variance					Variance		
Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Miscellaneous					Miscellaneous		
First Bedrock Decorah Shale Aquifer St.Peter					First Bedrock Decorah Shale Aquifer St.Peter		
Last Strat St.Peter Sandstone Depth to Bedrock 81 ft					Last Strat St.Peter Sandstone Depth to Bedrock 81 ft		
Located by Minnesota Department of Health					Located by Minnesota Department of Health		
Locate Method Digitization (Screen) - Map (1:12,000) (>15 meters)					Locate Method Digitization (Screen) - Map (1:12,000) (>15 meters)		
System UTM - NAD83, Zone 15, Meters X 501081 Y 4974016					System UTM - NAD83, Zone 15, Meters X 501081 Y 4974016		
Unique Number Verification Info/GPS from data Input Date 09/04/2020					Unique Number Verification Info/GPS from data Input Date 09/04/2020		
Angled Drill Hole					Angled Drill Hole		
Well Contractor					Well Contractor		
Mark J Traut Wells, Inc. 1404 PERRY/PHIL					Mark J Traut Wells, Inc. 1404 PERRY/PHIL		
Licensee Business Lic. or Reg. No. Name of Driller					Licensee Business Lic. or Reg. No. Name of Driller		
Minnesota Well Index Report				850408	Printed on 03/10/2025 HE-01205-15		

852523

County Ramsey
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 10/25/2021
 Update Date 01/12/2022
 Received Date

Well Name SELBITSCKA,	Township 28	Range 22	Dir Section W 13	Subsection AAABAA	Well Depth 360 ft.	Depth Completed 360 ft.	Date Well Completed 10/29/2021	
Elevation 1027	Elev. Method LiDAR 1m DEM (MNDNR)	Drill Method Non-specified Rotary		Drill Fluid Additive (+ Bentonite)				
Address Well 2710 LINWOOD AV E MAPLEWOOD MN 55119					Use domestic	Status Active		
Stratigraphy Information					Well Hydrofractured? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	From To		
Geological Material	From	To (ft.)	Color	Hardness	Casing Type Single casing	Joint Welded		
DRIFT	0	79			Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Above/Below		
SHALE	79	130			Casing Diameter 4 in. To	Weight 230 ft. 10.7 lbs./ft.	Hole Diameter 12 in. To 130 ft.	
LIMESTONE	130	155					8 in. To 320 ft.	
SHALE	155	161					4 in. To 360 ft.	
SANDROCK	161	311			Open Hole From 320 ft. To 360 ft.			
LIME	311	360			Screen? <input type="checkbox"/>	Type	Make	
Static Water Level 240 ft. land surface Measure 10/26/2021								
Pumping Level (below land surface) 280 ft. 2 hrs. Pumping at 30 g.p.m.								
Wellhead Completion Pitless adapter manufacturer WHITEWATER Model 864X5.5 <input checked="" type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)								
Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified								
	Material	Amount	From	To				
	pearock	2 Cubic yards	ft.	ft.				
	neat cement	7.5 Cubic yards	ft.	ft.				
Nearest Known Source of Contamination 78 feet North Direction Septic tank/drain field Type Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
Pump <input type="checkbox"/> Not Installed Date Installed 10/29/2021 Manufacturer's name FLINT & WALLING Model Number 4F10S07301 HP 1 Volt 240 Length of drop pipe 273 ft Capacity 10 g.p. Typ Submersible								
Abandoned Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								
Miscellaneous First Bedrock Decorah Shale Aquifer Prairie Du Chien Last Strat Prairie Du Chien Group Depth to Bedrock 79 ft Located by Minnesota Geological Survey Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or System UTM - NAD83, Zone 15, Meters X 501119 Y 4974021 Unique Number Verification Information from Input Date 10/26/2021								
Angled Drill Hole								
Well Contractor Kimmes Bauer Well Drilling, 1540 Licensee Business Lic. or Reg. No. Name of Driller								
Remarks GAMMA LOGGED ON 10/26/2021 FOR RAMSEY CGA					852523			
Minnesota Well Index Report					Printed on 03/10/2025 HE-01205-15			

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
Minnesota Statutes Chapter 1031

Entry Date 03/05/2020

Update Date 03/06/2020

Received Date

County Washington
 Quad Lake Elmo
 Quad ID 102B

1000020437

<table style="width:100%; border-collapse: collapse;"> <tr> <td>Well Name</td> <td>Township</td> <td>Range</td> <td>Dir Section</td> <td>Subsection</td> </tr> <tr> <td>BROWN, MARY</td> <td>28</td> <td>21</td> <td>W 7</td> <td>CCCCAC</td> </tr> <tr> <td>Elevation</td> <td>1026.4</td> <td>Elev. Method</td> <td colspan="2">LiDAR 1m DEM (MNDNR)</td> </tr> <tr> <td colspan="5">Address</td> </tr> <tr> <td colspan="5">C/W 1965 CENTURY AV S WOODBURY MN 55125</td> </tr> <tr> <td colspan="5">Stratigraphy Information</td> </tr> </table>	Well Name	Township	Range	Dir Section	Subsection	BROWN, MARY	28	21	W 7	CCCCAC	Elevation	1026.4	Elev. Method	LiDAR 1m DEM (MNDNR)		Address					C/W 1965 CENTURY AV S WOODBURY MN 55125					Stratigraphy Information					<table style="width:100%; border-collapse: collapse;"> <tr> <td>Well Depth</td> <td>Depth Completed</td> <td>Date Well Completed</td> </tr> <tr> <td>null</td> <td>null</td> <td></td> </tr> <tr> <td>Drill Method</td> <td colspan="2">Drill Fluid</td> </tr> <tr> <td>Use domestic</td> <td colspan="2">Status Active</td> </tr> <tr> <td>Well Hydrofractured?</td> <td>Yes <input type="checkbox"/></td> <td>No <input type="checkbox"/> From To</td> </tr> <tr> <td>Casing Type</td> <td colspan="2">Joint</td> </tr> <tr> <td>Drive Shoe?</td> <td>Yes <input type="checkbox"/></td> <td>No <input type="checkbox"/> Above/Below</td> </tr> <tr> <td colspan="3">Open Hole From _____ ft. To _____ ft.</td> </tr> <tr> <td>Screen? <input type="checkbox"/></td> <td>Type</td> <td>Make</td> </tr> <tr> <td colspan="3">Static Water Level</td> </tr> <tr> <td colspan="3">Pumping Level (below land surface)</td> </tr> <tr> <td colspan="3">Wellhead Completion</td> </tr> <tr> <td>Pitless adapter manufacturer</td> <td colspan="2">Model</td> </tr> <tr> <td><input type="checkbox"/> Casing Protection</td> <td colspan="2"><input type="checkbox"/> 12 in. above grade</td> </tr> <tr> <td colspan="3"><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</td> </tr> <tr> <td>Grouting Information</td> <td>Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td><input checked="" type="checkbox"/> Not Specified</td> </tr> <tr> <td colspan="3">Nearest Known Source of Contamination</td> </tr> <tr> <td>_____ feet</td> <td>Direction</td> <td>Type</td> </tr> <tr> <td>Well disinfected upon completion?</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td>Pump <input type="checkbox"/> Not Installed</td> <td colspan="2">Date Installed</td> </tr> <tr> <td colspan="3">Manufacturer's name</td> </tr> <tr> <td>Model Number</td> <td>HP</td> <td>Volt</td> </tr> <tr> <td>Length of drop pipe</td> <td>ft Capacity</td> <td>g.p. Typ</td> </tr> <tr> <td colspan="3">Abandoned</td> </tr> <tr> <td colspan="3">Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Variance</td> </tr> <tr> <td colspan="3">Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="3">Miscellaneous</td> </tr> <tr> <td>First Bedrock</td> <td colspan="2">Aquifer</td> </tr> <tr> <td>Last Strat</td> <td colspan="2">Depth to Bedrock _____ ft</td> </tr> <tr> <td colspan="3">Located by Minnesota Department of Health</td> </tr> <tr> <td colspan="3">Locate Method GPS SA Off (averaged) (15 meters)</td> </tr> <tr> <td>System</td> <td>UTM - NAD83, Zone 15, Meters</td> <td>X 501287 Y 4974102</td> </tr> <tr> <td>Unique Number Verification</td> <td>Info/GPS from data</td> <td>Input Date 03/05/2020</td> </tr> <tr> <td colspan="3">Angled Drill Hole</td> </tr> <tr> <td colspan="3">Well Contractor</td> </tr> <tr> <td>Licensee Business</td> <td>Lic. or Reg. No.</td> <td>Name of Driller</td> </tr> </table>	Well Depth	Depth Completed	Date Well Completed	null	null		Drill Method	Drill Fluid		Use domestic	Status Active		Well Hydrofractured?	Yes <input type="checkbox"/>	No <input type="checkbox"/> From To	Casing Type	Joint		Drive Shoe?	Yes <input type="checkbox"/>	No <input type="checkbox"/> Above/Below	Open Hole From _____ ft. To _____ ft.			Screen? <input type="checkbox"/>	Type	Make	Static Water Level			Pumping Level (below land surface)			Wellhead Completion			Pitless adapter manufacturer	Model		<input type="checkbox"/> Casing Protection	<input type="checkbox"/> 12 in. above grade		<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)			Grouting Information	Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Specified	Nearest Known Source of Contamination			_____ feet	Direction	Type	Well disinfected upon completion?	<input type="checkbox"/> Yes <input type="checkbox"/> No		Pump <input type="checkbox"/> Not Installed	Date Installed		Manufacturer's name			Model Number	HP	Volt	Length of drop pipe	ft Capacity	g.p. Typ	Abandoned			Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No			Variance			Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No			Miscellaneous			First Bedrock	Aquifer		Last Strat	Depth to Bedrock _____ ft		Located by Minnesota Department of Health			Locate Method GPS SA Off (averaged) (15 meters)			System	UTM - NAD83, Zone 15, Meters	X 501287 Y 4974102	Unique Number Verification	Info/GPS from data	Input Date 03/05/2020	Angled Drill Hole			Well Contractor			Licensee Business	Lic. or Reg. No.	Name of Driller
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1000023260

County Ramsey
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 03/05/2020
 Update Date 08/10/2021
 Received Date

Well Name YOST,	Township 28	Range 22	Dir Section W 13	Subsection AAABBD	Well Depth null	Depth Completed null	Date Well Completed
Elevation 1039	Elev. Method	LiDAR 1m DEM (MNDNR)			Drill Method	Drill Fluid	
Address					Use domestic	Status	Active
C/W 2688 LINWOOD AV MAPLEWOOD MN 55119					Well Hydrofractured?	Yes <input type="checkbox"/> No <input type="checkbox"/>	From To
Stratigraphy Information					Casing Type	Joint	
					Drive Shoe?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Above/Below
					Open Hole	From _____ ft.	To _____ ft.
					Screen? <input type="checkbox"/>	Type	Make
Static Water Level							
Pumping Level (below land surface)							
Wellhead Completion					Pitless adapter manufacturer _____ Model _____		
					<input type="checkbox"/> Casing Protection	<input type="checkbox"/> 12 in. above grade	
					<input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)		
Grouting Information					Well Grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Specified	
Nearest Known Source of Contamination					feet	Direction	Type
					Well disinfected upon completion?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Pump					<input type="checkbox"/> Not Installed	Date Installed	
					Manufacturer's name		
					Model Number	HP	Volt
					Length of drop pipe	ft	Capacity g.p. Typ
Abandoned					Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Variance					Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Miscellaneous					First Bedrock	Aquifer	
					Last Strat	Depth to Bedrock _____ ft	
Remarks					Located by Minnesota Department of Health		
					Locate Method GPS SA Off (averaged) (15 meters)		
					System	UTM - NAD83, Zone 15, Meters	X 501063 Y 4974008
					Unique Number Verification	Info/GPS from data	Input Date 03/05/2020
Angled Drill Hole							
Well Contractor					Licensee Business _____ Lic. or Reg. No. _____ Name of Driller _____		
Minnesota Well Index Report					1000023260		Printed on 03/10/2025 HE-01205-15

1000025204

County Ramsey
 Quad Lake Elmo
 Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
 Minnesota Statutes Chapter 1031

Entry Date 08/17/2020
 Update Date 08/17/2020
 Received Date

Well Name BRINK, DOUG	Township 28	Range 22	Dir Section W 13	Subsection AAABAC	Well Depth 181 ft.	Depth Completed 181 ft.	Date Well Completed				
Elevation 1037	Elev. Method LiDAR 1m DEM (MNDNR)	Drill Method		Drill Fluid							
Address C/W 2698 LINWOOD AV E MAPLEWOOD MN 55119					Use domestic	Status Active					
Stratigraphy Information					Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> From To						
					Casing Type Single casing		Joint				
					Drive Shoe? Yes <input type="checkbox"/> No <input type="checkbox"/>		Above/Below				
					Casing Diameter 4 in. To 140 ft.		Weight lbs./ft.				
					Open Hole From 140 ft. To 181 ft.						
					Screen? <input type="checkbox"/>		Type Make				
					Static Water Level						
					Pumping Level (below land surface)						
					Wellhead Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)						
					Grouting Information Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Specified						
Nearest Known Source of Contamination feet Direction Type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No											
Pump <input type="checkbox"/> Not Installed Date Installed Manufacturer's name Model Number HP Volt Length of drop pipe ft Capacity g.p. Typ											
Abandoned Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No											
Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No											
Miscellaneous First Bedrock Aquifer Last Strat Depth to Bedrock ft Located by Minnesota Geological Survey Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or System UTM - NAD83, Zone 15, Meters X 501082 Y 4974013 Unique Number Verification Information from Input Date 08/17/2020											
Angled Drill Hole											
Well Contractor Licensee Business Lic. or Reg. No. Name of Driller											
Remarks UNIQUE NUMBER GIVEN TO MDH (P. SARAFOLEAN) TO TRACK THIS WELL.											
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