

IOWA DEPARTMENT OF NATURAL RESOURCES
CONSTRUCTION

IOWA DEPARTMENT OF NATURAL RESOURCES
WATER SUPPLY ENGINEERING SECTION
CONSTRUCTION PERMIT APPLICATION

65307

SCHEDULE-2c, Notification of Minor Water Main Construction

Water Supply		Engineer	
Name	The Learning Journey	Firm	The Schemmer Associates Inc.
Address	15109 214 th Street Council Bluffs, IA 51503	Address	928 Valley View Drive, Suite #12 Council Bluffs, IA 51503
Representative	Lisa Wilcox	Project Officer	Randy G. Fehl
Telephone	712-256-0234	Telephone	712-329-0300

Mail form alone with any necessary attachments to:
Iowa Department of Natural Resources
Water Supply Engineering Section
401 SW 7th Street, Suite M
Des Moines, IA 50309-4611

- PWSID # 7820502
- Has the system been issued a Minor Water Main Construction Permit in accordance with 567-43.3(3) c? Yes No
If No, the water system must apply for a construction permit in accordance with the procedures in 567-subrule 40.4(1).
- Provide a detailed location of the proposed water main (i.e. Along county road G23 at Section 5, Township 84N, Range 22W)
Near the intersection of Hwy. 92 and 214th Street, Sec 3, T74N, R43W

4. Proposed Piping Inventory:

Material (Designate Alternates)	AWWA or ASTM Standard	Pipe Class	Pipe Pressure Rating (psi)	Maximum System Pressure (psi)	Nominal Diameter (inches)	Length of Water Main (feet)
PVC Schedule 80	D1785		200 psi	100 psi	1 1/4	425

- Was the proposed water main included in the hydraulic analysis that has previously been submitted to the department? Yes No
If No, an hydraulic analysis must be provided showing the impact on the system of these new users.
- Will the water demands of the proposed additional users be consistent with those used in the hydraulic analysis? Yes No
If No, an hydraulic analysis must be provided showing the impact on the system of these new users.
- By adding the proposed user(s) to the system, will it cause
 - the peak day demand of the system to exceed the source capacity? Yes No
 - the peak day demand of the system to exceed the treatment plant capacity? Yes No N/A
 - the average day demand of the system to exceed the storage capacity of the system? Yes No

APPLICANT

I certify that I am the authorized representative of the water system and that this is to serve as notification of intent to construct a minor water main under the authorization previously granted to the water system. Engineering plans, the appropriate construction permit application schedules and the construction permit application fee will be submitted to the Iowa DNR in accordance with 567-43.3e (6).

Signature:	Typed or Printed Name:	Date:
<i>Lisa M Wilcox</i>	Lisa Wilcox	2-27-08

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quest raised
att parents John

Lisa Wilcox the Learning Journey

Earled to Kim

WELL RECORD

PWTS Permit No. _____

County Permit No. _____

Iowa Department of Natural Resources - Geological Survey
109 Trowbridge Hall, Iowa City, IA 52242-1319 PH (319) 336-1575

PWTS Well No. _____

Site identification
 Property Owner The Learning Journey Other ID _____
 Address 15109 214th
 Tenant _____
 Well Depth 267 ft Date completed 6/12/08
 Location _____ County Pott
 _____ mi. N and _____ mi. E of intersection of _____ and _____

Drill method rotary auger cable other _____
Hole size
8 inch from 0 ft to 267 ft
 _____ inch from _____ ft to _____ ft
 _____ inch from _____ ft to _____ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

Casing Drive shoe (yes/no) _____ Pitless adapter (yes/no) _____

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
4	40	72	254	
4	40	264	267	

Perforated or slotted casing? (yes/no) _____
 Perforated / slotted from _____ ft to _____ ft
 Perforated / slotted from 72 ft to _____ ft

Casing grouted? (yes/no) _____ Placement method Tremie

Type	Depth top	Depth bottom	Amount (vol/wt)
<u>Bentinite</u>	<u>4</u>	<u>200</u>	<u>650</u>

Well screen? (yes/no) _____

Diameter	Slot size	Depth top	Depth bottom	Length	Material
<u>4</u>	<u>0.14</u>	<u>254</u>	<u>264</u>		<u>PVC</u>

Bottom capped (yes/no) _____ with _____
 Seals / Packers (yes/no) _____ kind _____ depth _____ ft
 Gravel packed (yes/no) _____ from 264 ft to 200 ft
 type Same amount _____

Well developed? (yes/no) _____
 Explain _____
 (pumped, airlifted, bailed) for 4 hrs at 10 GPM

Pump installed? (yes/no) _____ Date 6/12/08
 Installer's name Peth
 Type of pump sub Depth to intake 245 ft
 Pump diameter 4 Rate capacity 15 GPM

Water information Aquifer: sand / gravel limestone sandstone
 Main water-supply zone from 220 ft to 264 ft seepage well
 Static water level 195 ft (below / above) GL: tape alkline E-line estimate
 Pumping water level 200 ft below GL: tape alkline E-line estimate
 At yield of 10 GPM: orifice volumetric estimate for 4 hours
 Measurements taken at 7:30 (AM/PM) Date 6/12/08

Water quality test? (yes/no) _____ Date tested _____ / _____ / _____
 Tested by _____

Contractor CB Well
 Address _____
 Driver Don Certification no. 1138

Grouted from sand pack

STATE OF IOWA
 DEPARTMENT OF NATURAL RESOURCES
 Water Supply Section
 401 S.W. 7th St., Suite M
 DES MOINES, IOWA 50309-4611

WATER SUPPLY
 CONSTRUCTION PERMIT

THE LEARNING JOURNEY
 15109 214TH STREET
 COUNCIL BLUFFS IA 51503

Permit No.: 2008-0395W
 Project No.: W2008-0099
 PWSSD No.: 7820502

In accordance with the provisions of Sections 455B-173.9 and 455B-174.4, Code of Iowa, and 567 IAC 43.3 (455B) of the Iowa Administrative Code, the Director of the Department of Natural Resources does hereby issue a permit for the construction of:

Phase II - cation exchange softener, anion exchange nitrate removal filtration, sodium hypochlorite feed equipment, one 82 gallon retention tank, plus all related and necessary

Lisa Wilcox the Learning Journey
WELL RECORD

65307

p.1

Public

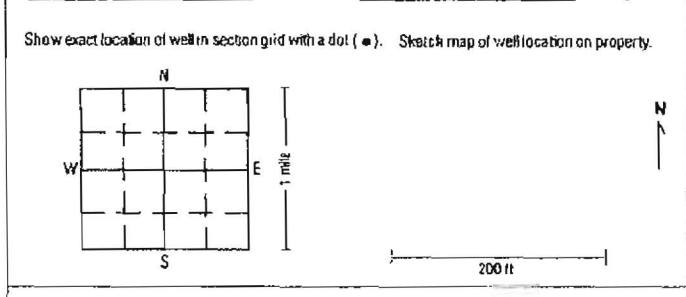
Iowa Department of Natural Resources - Geological Survey
 109 Howbridge Hall, Iowa City, IA 52242-1319 PH (319) 335-1575

PWTS Well No. _____

PWTS Permit No. _____
 County Permit No. _____

Site identification
 Property Owner The Learning Journey Other ID _____
 Address 15109 214th
 Tenant _____
 Well Depth 267 ft Date completed 6/12/08

Location County Pott
 _____ mi ^N and _____ mi ^E at intersection of _____ and _____
 _____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ R₁G _____ E _____ W _____
 GPS Coordinates (NAD83 datum only) decimal degrees:
 _____ N. Latitude _____ W. Longitude.



Upland Hillside Valley Level surface Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
	90	Y	S	Lus
	120	Y	S	YGT
	130	Y	S	Sandy clay
	175	BL	M	Blue Clay
	195	Gr	M	gray Clay
	200	Gr	M	Sandy Gray Cl
	265	Y	M	Sand
	266	Brow	M	Brown Clay
	267	Gray	M	Gray Clay

use additional sheets as needed

Remarks (Including depth of lost drilling fluids, materials, or tools)

Well use

<input type="checkbox"/> Domestic	<input type="checkbox"/> Heat pump	<input type="checkbox"/> Commercial
<input type="checkbox"/> Livestock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Test well	<input checked="" type="checkbox"/> Public supply	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Irrigation	

Drill method rotary auger cable other _____
Hole size
8 inch from 0 ft to 267 ft
 _____ inch from _____ ft to _____ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

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 Perforated / slotted from _____ ft to _____ ft

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Type	Depth top	Depth bottom	Amount (vol/wt)
Bentonite	4	200	650

Well screen? (yes/no) _____

Diameter	Slot size	Depth top	Depth bottom	Length	Material
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	0. _____				

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 Address _____
 Driller Dan Certification no. 1138