

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

WELL RECORD

- 53450
COPY

Permit No. 2000-046-L

Site Identification Property Owner <u>Winchester Heights</u> Well Number _____ Address <u>Shueyville, IA</u> Tenant _____ Well Depth <u>540</u> ft Date completed <u>10/18/99</u>				Drill method ☒ rotary ☐ auger ☐ cable ☐ other _____ Hole size <u>13</u> inch from <u>0</u> ft to <u>325</u> ft <u>8</u> inch from <u>325</u> ft to <u>540</u> ft hole size continued _____ inch from _____ ft to _____ ft																																																													
Location County <u>Johnson</u> _____ mi. N and _____ mi. E of intersection of _____ and _____ 1/4 of the _____ 1/4 of the _____ 1/4 of the _____ Sec. <u>10</u> TWP. <u>8N</u> R. <u>7E</u> Show exact location of well in section grid with a dot (•). Sketch map of well location on property.				Record all depth measurements from ground level (GL). Use (+) for above GL measurements. Casing Drive shoe (yes ☒ no ☐) Pileless adapter (yes ☐ no ☒) <table border="1"> <thead> <tr> <th>Size (ID/OD)</th> <th>Type / WA</th> <th>Depth top</th> <th>Depth bottom</th> <th>Amount (length)</th> </tr> </thead> <tbody> <tr> <td>8" .322</td> <td>Steel</td> <td>+1</td> <td>325</td> <td>326</td> </tr> <tr> <td>6.950</td> <td>PUL</td> <td>320</td> <td>405</td> <td>85</td> </tr> </tbody> </table>				Size (ID/OD)	Type / WA	Depth top	Depth bottom	Amount (length)	8" .322	Steel	+1	325	326	6.950	PUL	320	405	85																																											
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Perforated or slotted casing? (yes ☒ no ☐ Perforated / slotted from _____ ft to _____ ft Perforated / slotted from _____ ft to _____ ft				Casing grouted? (yes ☒ no ☐) Placement method <u>Hand placed</u> <table border="1"> <thead> <tr> <th>Type</th> <th>Depth Top</th> <th>Depth bottom</th> <th>Amount (vol/wt)</th> </tr> </thead> <tbody> <tr> <td>Net Cement</td> <td>0</td> <td>325</td> <td>1603 AGS</td> </tr> </tbody> </table>				Type	Depth Top	Depth bottom	Amount (vol/wt)	Net Cement	0	325	1603 AGS																																																		
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Bottom cased (yes ☒ no ☐) with _____ Seals / Packers (yes ☒ no ☐) Kind <u>320 + 405</u> depth _____ ft Gravel packed (yes ☒ no ☐) from _____ ft to _____ ft type _____ amount _____				Well developed? (yes ☒ no ☐) Explain <u>212</u> (pumped, drilled, bailed) for _____ hrs at _____ GPM.																																																													
Pump installed? (yes ☒ no ☐) Date _____ / _____ / _____ Installer's name _____ Type of pump _____ Depth to intake _____ ft Pump diameter _____ Rated capacity _____ GPM				Water Information Aquifer: ☐ sand / gravel ☒ limestone ☐ sandstone Main water supply zone from <u>405</u> ft to <u>531</u> ft ☐ seepage well Static water level <u>173</u> ft (below / above) GL; ☒ tape ☐ airline ☐ E-tape ☐ estimate Pumping water level <u>240</u> ft below GL; ☐ tape ☐ airline ☐ E-tape ☒ estimate At yield of <u>75</u> GPM; ☐ orifice ☐ volumetric ☒ estimate Measurement taken at <u>6:00</u> (AM/PM) Date <u>10/18/99</u>																																																													
Remarks (including depth of lost drilling fluids, materials, or tools)				Water quality test? (yes ☒ no ☐) Date tested _____ / _____ / _____ Tested by _____																																																													
Well use ☐ Domestic ☐ Municipal ☐ Commercial ☐ Livestock ☒ Public supply ☐ Monitoring ☐ Test well ☐ Irrigation ☐ Other _____ (explain)				Contractor <u>Gingerich Well</u> Address <u>1321 Locust Ave Kalona IA 52247</u> Driller <u>RL & Gingerich</u> Certification no. <u>46046</u>																																																													

white copy - Iowa DNR, Geological Survey Bureau

blue copy - Well Contractor

pink copy - Customer

yellow copy - County Health Officer
207871-00

319-656-2669

1321 Locust Avenue
Kalona, Iowa 52247-9516
Located on Hwy 22 E

"YOUR WELL BEING OUR BUSINESS"

Gingerich

WELL & PUMP SERVICE
WELL DRILLING & REPAIR ■ PIPELINE TRENCHING
319-656-2664

Emery Gingerich
Klint Gingerich
Corwin Gingerich

50' Above Pump

110

OWNER Winchester Heights DATE DRILLED _____
ADDRESS Shueyville, IA DEPTH OF WELL 540
SIZE TOP 8 BOTTOM 8 CASED TO 325 WITH 8 STEEL ☒ PLASTIC ☐
LINED WITH 6.9 SDR17 FROM 320 TO 405 AND WITH _____ FROM _____ TO _____
FEET OF SAND _____ FROM _____ TO _____ DEPTH TO ROCK ☒ 298
SHALE ☐
MAIN SUPPLY FROM .405 TO 530 AND FROM _____ TO _____
MFG OF SCREEN _____ TYPE OF MATERIAL - PLASTIC ☐ STAINLESS STEEL ☐
SLOT OPENING _____ TOTAL LENGTH _____ FEET EXPOSED _____
STATIC WATER LEVEL 170 PUMPING LEVEL 240 AT 75 GPM
DRILLING FOREMAN Klint Gingerich

REMARKS:

Pump is set at 315'

Winchester Heights Pump Test

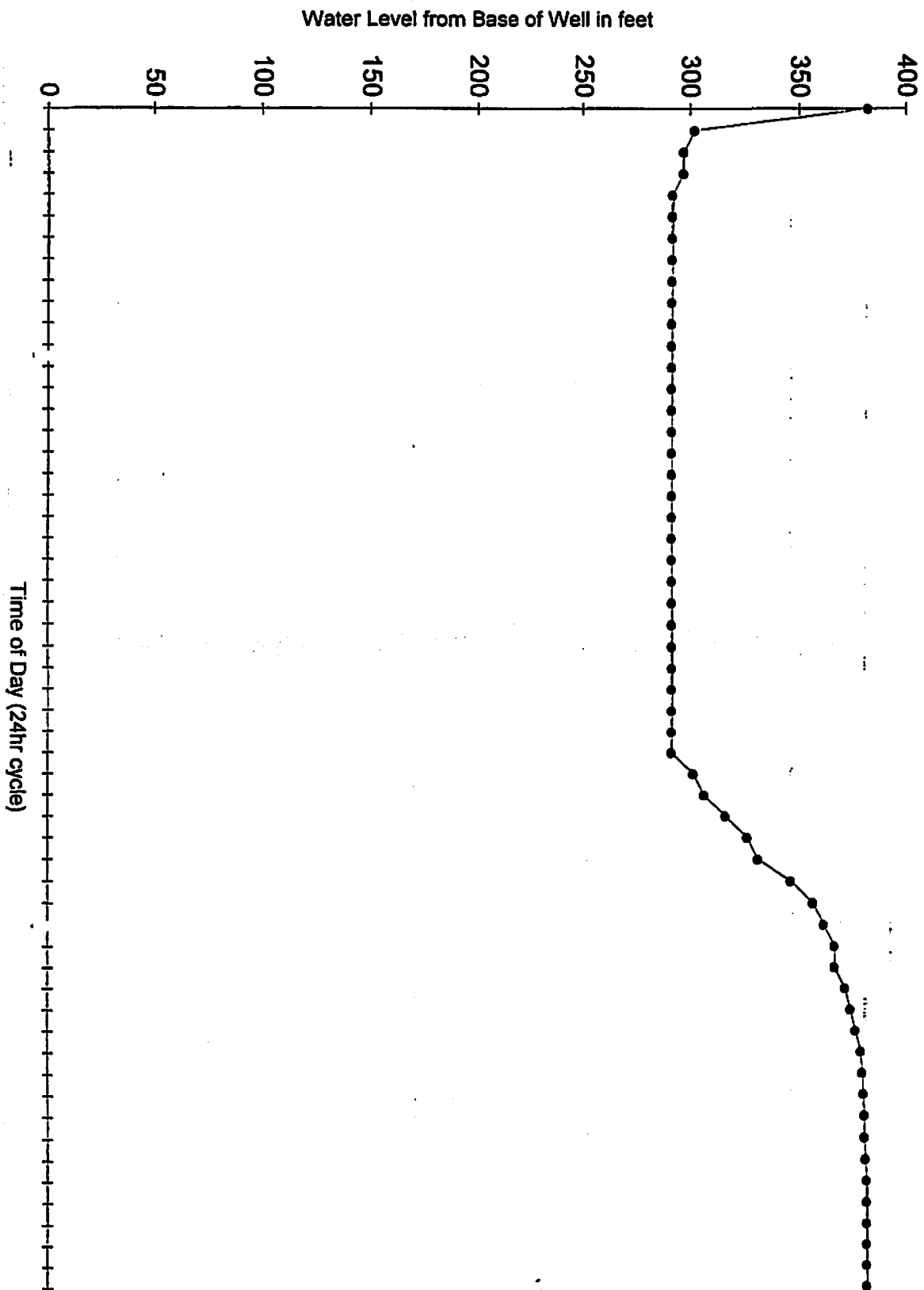
6-5-00 to 6-6-00 95 gpm
 Pump set at 315' plus Pitless (323')
 Static water level 158'

Time	Water level	Draw down	Capacity (Gpm)	Amps
10:50 A.M.	158'	0	105	32
11:05 A.M.	238'	80'	95	28
11:20 A.M.	243'	85'	95	28
11:35 A.M.	243'	85'	95	28
11:50 A.M.	248'	90'	95	28
12:05 P.M.	248'	90'	95	28
12:20 P.M.	248'	90'	95	28
12:35 P.M.	248'	90'	95	28
12:50 P.M.	248'	90'	95	28
1:50 P.M.	248'	90'	95	28
2:50 P.M.	248'	90'	95	28
3:50 P.M.	248'	90'	95	28
4:50 P.M.	248'	90'	95	28
5:50 P.M.	248'	90'	95	28
6:50 P.M.	248'	90'	95	28
7:50 P.M.	248'	90'	95	28
8:50 P.M.	248'	90'	95	28
9:50 P.M.	248'	90'	95	28
10:50 P.M.	248'	90'	95	28
11:50 P.M.	248'	90'	95	28
12:50 A.M.	248'	90'	95	28
1:50 A.M.	248'	90'	95	28
2:50 A.M.	248'	90'	95	28
3:50 A.M.	248'	90'	95	28

Time	Water level	Draw Down	Capacity (GPM)	Amp
4:50 a.m.	248'	90'	95	28
5:50 a.m.	248'	90'	95	28
6:50 a.m.	248'	90'	95	28
7:50 a.m.	248'	90'	95	28
8:50 a.m.	248'	90'	95	28
9:50 a.m.	248'	90'	95	28
10:50 a.m.	248'	90'	95	28
10:51 a.m.	238'	80	Stopped Pumping	
10:52 a.m.	233'	75'		
10:53 a.m.	223'	65'		
10:54 a.m.	213'	55'		
10:55 a.m.	208'	50'		
10:56 a.m.	193'	35'		
10:57 a.m.	183'	25'		
10:58 a.m.	178'	20'		
10:59 a.m.	173'	15'		
11:00 a.m.	173'	15'		
11:01 a.m.	168'	10'		
11:02 a.m.	165.5'	7.5'		
11:03 a.m.	163'	5'		
11:04 a.m.	160.5'	2.5'		
11:05 a.m.	160'	2'		
11:06 a.m.	159.5'	1.5'		
11:07 a.m.	159'	1'		
11:08 a.m.	159'	1'		
11:09 a.m.	158.5'	.5'		
11:10 a.m.	158'	0		
11:20 a.m.	158'	0		
11:35 a.m.	158'	0		
11:50 a.m.	158'	0		

[illegible]

Draw-Down Graph Winchester Heights





Hygienic Laboratory

The University of Iowa

Date of report: 10-16-2000

|||||
BUTCH KASPAREK
NOVOTNY & SON WELL DRILLING
1144 CLUB ROAD NE

CEDAR RAPIDS IA 52404

Sample Number 200032311
Date Received 09-22-2000
Project
Date Collected 09-21-2000 09:05
Collection Site pit
Collection Town Shueyville
Description water
Reference WINCHESTER HGTS
Collector KASPAREK BUTCH
Phone (319) 360-3186
Purchase Order

Comments
Total filter area analyzed: 0.17
Water volume filtered: 10 ml
Number of grid openings counted: 20

Results of Analyses

Asbestos in water

Analyte	Concentration	Quantitation Limit
Total Asbestos	MFL	
	<0.2	0.2
Comments	Fewer than 5 asbestos fibers were counted.	

Date Analyzed: 10-12-2000

Method: EPA 100.2

Analyst: MCR

Verified: SM

Description of units used within this report

MFL - Millions of Fibers/Liter

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, ICR, NVLAP, USEPA and other credentials available upon request.

If you have any questions please call Sherri Marine at 800/421-IOWA (4692) or 319/335-4500. Thank you.

Mary J. R. Gilchrist, Ph.D.
Director

102 Oakdale Campus, #101 OH
Iowa City, Iowa 52242-5002
319/335-4500 Fax: 319/335-4555

<http://www.uhl.uiowa.edu>

H.A. Wallace Building
East Grand, Des Moines, Iowa 50319-0034
515/281-5371 Fax: 515/243-1349



Hygienic Laboratory

The University of Iowa

Date of report: 07-25-2000

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BUTCH KASPAREK
NOVOTNY & SON WELL DRILLING
1144 CLUB ROAD NE

CEDAR RAPIDS IA 52404

Sample Number	200058379
Date Received	07-18-2000
Project	
Date Collected	07-17-2000 15:50
Collection Site	well pit
Collection Town	Shueyville
Description	water
Reference	WINCHESTER HEIGHTS
Collector	KASPAREK BUTCH
Phone	(319) 360-3186
Purchase Order	

Results of Analyses

Nitrite as N (SDWA)

Analyte	Concentration mg/L	Quantitation Limit
Nitrite Nitrogen as N	<0.02	0.02

Date Analyzed: 07-19-2000

Analyst: BR

Method: EPA 353.2

Verified: RS

Nitrate Nitrogen as N (SDWA)

Analyte	Concentration mg/L	Quantitation Limit
Nitrate Nitrogen as N	<0.1	0.1

Date Analyzed: 07-20-2000

Analyst: BR

Method: EPA 353.2

Verified: RS

Inorganic Chemistry

Analyte	Concentration	Method	Analyst/ Verifier	Date Analyzed
Nitrate + Nitrite Nitrogen as N	<0.1 mg/L	EPA 353.2	BR/RS	07-21-2000

Description of units used within this report

mg/L - Milligrams per Liter

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, ICR, NVLAP, USEPA and other credentials available upon request.

If you have any questions please call Sherri Marine at 800/421-IOWA (4692) or 319/335-4500. Thank you.



Hygienic Laboratory

The University of Iowa

Date of report: 07-26-2000

|||||
BUTCH KASPAREK
NOVOTNY & SON WELL DRILLING
1144 CLUB ROAD NE

CEDAR RAPIDS IA 52404

Sample Number	200058386
Date Received	07-18-2000
Project	
Date Collected	07-17-2000 15:45
Collection Site	well pit
Collection Town	Shueyville
Description	water
Reference	WINCHESTER HEIGHTS
Collector	KASPAREK BUTCH
Phone	(319) 360-3186
Purchase Order	FEE EXEMPT

Results of Analyses

Inorganic Chemistry

Analyte	Concentration	Method	Analyst/ Verifier	Date Analyzed
Total Cyanide	<0.01 mg/L	EPA 335.2	LDA/TB	07-21-2000

Description of units used within this report

mg/L - Milligrams per Liter

Iowa Laboratory Certification No. 027. AIHA, ICR, NVLAP, USEPA and other credentials available upon request.

If you have any questions please call Sherri Marine at 800/421-IOWA (4692) or 319/335-4500. Thank you.



Hygienic Laboratory

The University of Iowa

Date of report: 07-19-2000

|||||
BUTCH KASPAREK
NOVOTNY & SON WELL DRILLING
1144 CLUB ROAD NE

CEDAR RAPIDS IA 52404

Sample Number 200057614
Date Received 07-05-2000
Project
Date Collected 06-30-2000 09:40
Collection Site well pit
Collection Town Shueyville
Description water
Reference WINCHESTER HEIGHTS
Collector KASPAREK DONALD
Phone (319) 857-4287
Purchase Order

Comments

Nitrate/Nitrite exceeds 48 hour holding time upon receipt at Des Moines Laboratory.

Results of Analyses

Laboratory pH

Analyte	Concentration pH Units	Quantitation Limit
Laboratory pH	7.7	

Date Analyzed: 07-05-2000

Method: EPA 150.1

Analyst: SB

Verified: DC

Specific Conductance

Analyte	Concentration umhos/cm	Quantitation Limit
Specific Conductance	660	1

Date Analyzed: 07-05-2000

Method: SM 2510B

Analyst: SB

Verified: DC

Total Alkalinity

Analyte	Concentration mg/L as CaCO ₃	Quantitation Limit
Total Alkalinity	300	1

Date Analyzed: 07-05-2000

Method: SM 2320B

Analyst: SB

Verified: DC

Total Hardness

Analyte	Concentration mg/L as CaCO ₃	Quantitation Limit
Total Hardness	290	1

Date Analyzed: 07-17-2000

Method: SM18 2340 B

Analyst: DC

Verified: SB



Hygienic Laboratory

The University of Iowa

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Sample Number 200057614

Total Calcium

Analyte	Concentration mg/L	Quantitation Limit
Total Calcium	68	1.0

Date Analyzed: 07-14-2000

Method: EPA 200.7

Analyst: DC

Verified: SB

Total Magnesium

Analyte	Concentration mg/L	Quantitation Limit
Total Magnesium	28	0.1

Date Analyzed: 07-14-2000

Method: EPA 200.7

Analyst: DC

Verified: SB

Total Potassium

Analyte	Concentration mg/L	Quantitation Limit
Total Potassium	3.4	1

Date Analyzed: 07-14-2000

Method: EPA 200.7

Analyst: DC

Verified: SB

Total Sodium

Analyte	Concentration mg/L	Quantitation Limit
Total Sodium	30	0.5

Date Analyzed: 07-14-2000

Method: EPA 200.7

Analyst: DC

Verified: SB

Chloride

Analyte	Concentration mg/L	Quantitation Limit
Chloride	2.2	1

Date Analyzed: 07-06-2000

Method: EPA 300.0

Analyst: SB

Verified: DC

Langlier Index

Analyte	Concentration lang	Quantitation Limit
Langlier Index	0.54	

Date Analyzed: 07-19-2000

Method: SM 203

Analyst: SB

Verified: DC



Hygienic Laboratory

The University of Iowa

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Sample Number 200057614

Total Chromium

Analyte	Concentration mg/L	Quantitation Limit
Total Chromium	<0.01	0.01

Date Analyzed: 07-14-2000
Method: EPA 200.7

Analyst: DC
Verified: SB

Total Selenium

Analyte	Concentration mg/L	Quantitation Limit
Total Selenium	<0.01	0.01

Date Analyzed: 07-18-2000
Method: EPA 200.8

Analyst: SB
Verified: DC

Total Lead

Analyte	Concentration mg/L	Quantitation Limit
Total Lead	0.003	0.001

Date Analyzed: 07-18-2000
Method: EPA 200.8

Analyst: SB
Verified: DC

Total Cadmium

Analyte	Concentration mg/L	Quantitation Limit
Total Cadmium	<0.001	0.001

Date Analyzed: 07-18-2000
Method: EPA 200.8

Analyst: SB
Verified: DC

Total Barium

Analyte	Concentration mg/L	Quantitation Limit
Total Barium	<0.05	0.05

Date Analyzed: 07-18-2000
Method: EPA 200.8

Analyst: SB
Verified: DC

Total Arsenic

Analyte	Concentration mg/L	Quantitation Limit
Total Arsenic	0.006	0.001

Date Analyzed: 07-18-2000
Method: EPA 200.8

Analyst: SB
Verified: DC



Hygienic Laboratory

The University of Iowa

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Sample Number 200057614

Total Beryllium

Analyte	Concentration mg/L	Quantitation Limit
Total Beryllium	<0.002	0.002
Date Analyzed: 07-18-2000		Analyst: SB
Method: EPA 200.8		Verified: DC

Total Antimony

Analyte	Concentration mg/L	Quantitation Limit
Total Antimony	<0.005	0.005
Date Analyzed: 07-18-2000		Analyst: SB
Method: EPA 200.8		Verified: DC

Total Silver

Analyte	Concentration mg/L	Quantitation Limit
Total Silver	<0.01	0.01
Date Analyzed: 07-19-2000		Analyst: SB
Method: EPA 200.8		Verified: DC

Total Thallium

Analyte	Concentration mg/L	Quantitation Limit
Total Thallium	<0.001	0.001
Date Analyzed: 07-18-2000		Analyst: SB
Method: EPA 200.8		Verified: DC

Total Copper

Analyte	Concentration mg/L	Quantitation Limit
Total Copper	<0.01	0.01
Date Analyzed: 07-14-2000		Analyst: DC
Method: EPA 200.7		Verified: SB

Total Iron

Analyte	Concentration mg/L	Quantitation Limit
Total Iron	2.0	0.02
Date Analyzed: 07-14-2000		Analyst: DC
Method: EPA 200.7		Verified: SB



Hygienic Laboratory

The University of Iowa

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Sample Number 200057614

Total Manganese

Analyte	Concentration mg/L	Quantitation Limit
Total Manganese	0.03	0.02

Date Analyzed: 07-14-2000

Method: EPA 200.7

Analyst: DC

Verified: SB

Total Mercury

Analyte	Concentration mg/L	Quantitation Limit
Total Mercury	<0.0002	0.0002

Date Analyzed: 07-13-2000

Method: EPA 245.1

Analyst: LDA

Verified: DC

Total Nickel

Analyte	Concentration mg/L	Quantitation Limit
Total Nickel	<0.05	0.05

Date Analyzed: 07-14-2000

Method: EPA 200.7

Analyst: DC

Verified: SB

Total Zinc

Analyte	Concentration mg/L	Quantitation Limit
Total Zinc	3.7	0.02

Date Analyzed: 07-14-2000

Method: EPA 200.7

Analyst: DC

Verified: SB

Inorganic Chemistry

Analyte	Concentration	Method	Analyst/ Verifier	Date Analyzed
Silica as SiO ₂	12 mg/L	SM 4500-SI D	DC/SB	07-10-2000
Total Dissolved Solids	460 mg/L	EPA 160.1	JF/BW	07-05-2000
Comments	Dried at 180 degrees C.			

Inorganic Chemistry

Analyte	Concentration	Method	Analyst/ Verifier	Date Analyzed
Total Suspended Solids	21 mg/L	USGS I-3765-85	JF/BW	07-05-2000
Comments	Dried at 103 degrees C			

Inorganic Chemistry

Analyte	Concentration	Method	Analyst/ Verifier	Date Analyzed
Fluoride	0.35 mg/L	EPA 340.2	JF/RS	07-06-2000



Hygienic Laboratory

The University of Iowa

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Sample Number 200057614

Description of units used within this report

mg/L - Milligrams per Liter
umhos/cm - Micromhos per Centimeter
lang - Langlier Index

pH Units - pH Units
mg/L as CaCO₃ - Milligrams per Liter as Calcium Carbonate
Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, ICR, NVLAP, USEPA and other credentials available upon request.

If you have any questions please call Sherri Marine at 800/421-IOWA (4692) or 319/335-4500. Thank you.



Hygienic Laboratory

The University of Iowa

Date of report: 08-29-2000

|||||
BUTCH KASPAREK

NOVOTNY & SON WELL DRILLING
1144 CLUB ROAD NE

CEDAR RAPIDS IA 52404

Sample Number 200006825
Date Received 06-30-2000
Project
Date Collected 06-30-2000 09:51
Collection Site well pit
Collection Town Shueyville
Description water
Reference WINCHESTER HEIGHTS
Collector KASPAREK DONALD
Phone (319) 857-4287
Purchase Order

Comments

The paperwork lists the collection time as 09:45; per label 9:51.

Results of Analyses

Radiochemistry

Analyte	Concentration pCi/L	Uncertainty +/-	Method	Analyst/ Verifier	Date Analyzed
Gross Alpha	5.9	1.4	EPA 900.0	EB/MT	07-05-2000

Comments

The United States Environmental Protection Agency has designated a maximum contaminant level of 15 pCi/L for Gross Alpha (excluding uranium) in public drinking water supplies. Effective since July 9, 1976.

Radiochemistry

Analyte	Concentration pCi/L	Uncertainty +/-	Method	Analyst/ Verifier	Date Analyzed
Radium-226	1.8	0.9	EPA 903.0	EB/MM	08-24-2000

Comments

The United States Environmental Protection Agency has designated a maximum contaminant level of 5 pCi/L for combined Radium 226 and Radium 228 in public drinking water supplies. Effective since July 9, 1976. For any Radium 226 and or 228 result less than our detection limit a value of zero is to be assumed for the purposes of combining the results.

Radiochemistry

Analyte	Concentration pCi/L	Uncertainty +/-	Method	Analyst/ Verifier	Date Analyzed
Radium-228	2.1	1.1	EPA 904.0	EB/MM	08-24-2000
Strontium-89	<0.7		EPA 905.0	MT/MM	08-11-2000
Strontium-90	<0.8		EPA 905.0	MT/MM	08-11-2000

Description of units used within this report

pCi/L - PicoCuries per Liter

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Hygienic Laboratory

The University of Iowa

 FISHER EXCAVATING 5909 6TH ST SW CEDAR RAPIDS, IA 52404-	Date of Report: 07-25-2000
	Account Information
	Invoice Number 96021 Analytical Fees \$11.00 Payment Received \$11.00 Balance Due \$0.00

Name of Collector / Owner of Supply	Sample Location / Town	Collection Date and Time	Received Date	Analyzed Date	Analyst	Laboratory Number
TOM KEN JOHNSON	BLOW OFF NE SHUEYVILLE	2000-07-21 12:15	2000-07-21	2000-07-21	N	15937

Results of Drinking Water Analyses

Total Coliform Bacteria Absent; Most probable number less than 1/2; Bacterially Safe

Front water line

Winchester Heights

7-25-2000

MUNICIPAL WATER PLANT LAB
761 J AVE NE
CEDAR RAPIDS IOWA 52402

NAME: Fisher Excavating
ADDRESS: 5909 6th Street SW
Cedar Rapids, IA 52404
SAMPLE DATE: November 1, 2000
LOCATION: Sheuyville, IA Winchester Heights West Piping
COLLECTED BY: Unknown
OWNER OF SUPPLY: Ken Johnson
SOURCE OF SAMPLE: unknown

BACTERIAL ANALYSIS

COLIFORM BACTERIA: Absent
COLIFORM DENSITY: MPN 0 PER 100 ML
CONCLUSIONS: BACTERIALLY SAFE X UNSAFE AT THIS TIME

CHEMICAL ANALYSIS

NITRATE: _____ MILLIGRAMS PER LITER (PPM)

******NOTE******

NITRATE NITROGEN CONTENT OVER 10 PPM IS UNSAFE FOR
INFANT FEEDING UNDER SIX (6) MONTHS OF AGE

NITRANT CONTENT IS: SAFE UNSAFE FOR INFANT FEEDING

OTHER TESTS: _____

Thomas C. North
LABORATORY SUPERVISOR