

65600

LOG OF BORING NO. 6										Page 1 of 2
OWNER City of Dallas Center					ARCHITECT/ENGINEER Veenstra & Kimm, Inc.					
SITE Dallas Center, Iowa					PROJECT Water Supply Development					
GRAPHIC LOG	DESCRIPTION	DEPTH (ft.)	USCS SYMBOL	SAMPLES			TESTS			
				NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF
	Sandy lean CLAY, trace gravel and organic matter, dark brown	5	CL	1	AS					
	Lean CLAY, trace sand and gravel, medium brown	10	CL	2	AS					
	Fine to coarse SAND, trace gravel and coal, light brown	15			HS					
	Clayey fine to coarse SAND, with gravel, light olive gray to olive brown	35	SP	3	SS					
		40	SC	4	SS					

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES. IN-SITU, THE TRANSITION MAY BE GRADUAL.

Calibrated Hand Penetrometer*

WATER LEVEL OBSERVATIONS				TEAM Services, Inc.		BORING STARTED 5/17/04			
WL	14'	WD	10'			BORING COMPLETED 5/17/04			
WL	27'	AD				RIG	ATV	FOREMAN	MG
WL						APPROVED	JCC	JOB #	1-1428

LOG OF BORING NO. 6										Page 2 of 2
OWNER City of Dallas Center					ARCHITECT/ENGINEER Veenstra & Kimm, Inc.					
SITE Dallas Center, Iowa					PROJECT Water Supply Development					
GRAPHIC LOG	DESCRIPTION	DEPTH (ft.)	SAMPLES			TESTS				
			USCS SYMBOL NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF		UNCONFINED STRENGTH PSF
48.0	Clayey fine to coarse SAND, with gravel, light olive gray to olive brown	45		HS						
49.5	SHAL, light gray		5	SS						
	Bottom of Boring									

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES; IN-SITU, THE TRANSITION MAY BE GRADUAL.

WATER LEVEL OBSERVATIONS				TEAM Services, Inc.	BORING STARTED 5/17/04	
WL 14' WD 10' 24hr AD WL 27' AD WL					BORING COMPLETED 5/17/04	
					RIG ATV	FOREMAN MG
					APPROVED JCC	JOB # 1-1428



Hygienic Laboratory

The University of Iowa

Date of report: 07-28-2005

|||||

LGI
1532 DEWITT
PO BOX 247
ELLSWORTH IA 50075

Sample Number	200507644
Date Received	06-29-2005
Project	SDWA
Date Collected	06-28-2005 13:45
Collection Site	new well #10
Collection Town	Dallas Center
Description	water
Reference	
Collector	DAVIS LARRY
Phone	(515) 992-3725
Purchase Order	

Comments Upon receipt at the UHL sample meets standard acceptance criteria.

SDWIS Information

PWS Id: IA2520098
Sample Category: Chemical

Facility Id: 950
Sample Type: Special (SP)

Sample Point Id: WL10

Results of Analyses

Gross Alpha including Uranium

Analyte	Concentration pCi/L	Uncertainty +/-	Quantitation Limit pCi/L
Gross Alpha	<2.6		2.6

Date Analyzed: 07-14-2005
Method: EPA 900.0

Analyst: SM
Verified: MM

Sequential Radium 226 and 228

Analyte	Concentration pCi/L	Uncertainty +/-	Quantitation Limit pCi/L
Radium-226	<0.6		0.6
Radium-228	0.8	0.6	0.6
Combined Radiums	0.8		0.6

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.

Date Analyzed: 07-22-2005
Method: EPA 904.0, 903.0

Analyst: MM
Verified: SM

Description of units used within this report

pCi/L - PicoCuries per Liter

Iowa Laboratory Certification No. 027. AIHA, NELAP, USEPA, NVLAP #101288-0 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.

Page 1 - End of Report

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

102 Oakdale Campus, #101 OH
Iowa City, Iowa 52242-5002
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2220 S. Ankeny Blvd, Ankeny, Iowa 50023
515/725-1600 Fax: 515/725-1642



Hygienic Laboratory

The University of Iowa

Date of report: 07-25-2005

|||||
LARRY DAVIS
LGI
1532 DEWITT
PO BOX 247
ELLSWORTH IA 50075

Sample Number 200559162
Date Received 07-06-2005
Project SDWA
Date Collected 07-05-2005 13:30
Collection Site new well #10
Collection Town Dallas Center
Description water
Reference
Collector DAVIS LARRY
Phone (515) 992-3725
Purchase Order

Comments Upon receipt at the UHL sample meets standard acceptance criteria.

Results of Analyses

SDWA Nitrite as N

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

Date Analyzed: 07-06-2005

Analyst: BR

Method: EPA 353.2

Verified: TAB

Manual Fluoride by ISE (SDWA)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Fluoride	0.24	0.10

Date Analyzed: 07-06-2005

Analyst: JF

Method: SM 4500-F C

Verified: TAB

Total Cadmium

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

Date Analyzed: 07-11-2005

Analyst: SB

Method: EPA 200.8

Verified: LF

Total Antimony

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Antimony	<0.005	0.005

Date Analyzed: 07-11-2005

Analyst: SB

Method: EPA 200.8

Verified: LF

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Hygienic Laboratory

The University of Iowa

Date of report: 07-19-2005

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LGI
1532 DEWITT
PO BOX 247
ELLSWORTH IA 50075

Sample Number	200507645
Date Received	06-29-2005
Project	SDWA
Date Collected	06-28-2005 14:00
Collection Site	new well #10
Collection Town	Dallas Center
Description	water
Reference	
Collector	DAVIS LARRY
Phone	(515) 992-3725
Purchase Order	

Comments

Upon receipt at the UHL sample meets standard acceptance criteria
EXCEPT: sample temperature exceeds 6 degrees celsius.

SDWIS Information

PWS Id: IA2520098
Sample Category: Chemical

Facility Id: 950
Sample Type: Routine (RT)

Sample Point Id: WL10

Results of Analyses

SDWA Regulated SOC A/S #4 by GC/MS

Analyte	Concentration mg/L	Quantitation Limit mg/L
Simazine	<0.0001	0.0001
Atrazine	<0.0001	0.0001
Alachlor	<0.0001	0.0001

Date Analyzed: 07-08-2005
Method: EPA 525.2
Date Prepared: 07-07-2005
Preparation Method: EPA 525.2

Analyst: ES
Verified: TC
Analyst: PM
Verified: GJ

SDWA Regulated SOC A/S #6 & #7 by GC/MS

Analyte	Concentration mg/L	Quantitation Limit mg/L
bis(2-Ethylhexyl)adipate	<0.0006	0.0006
bis(2-Ethylhexyl)phthalate	<0.0006	0.0006
Benzo(a)pyrene	<0.0001	0.0001

Date Analyzed: 07-08-2005
Method: EPA 525.2
Date Prepared: 07-07-2005
Preparation Method: EPA 525.2

Analyst: ES
Verified: TC
Analyst: PM
Verified: GJ

GC/MS 524.2 Volatiles

Analyte	Concentration ug/L	Quantitation Limit ug/L
Vinyl chloride	<0.5	0.5

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Hygienic Laboratory

The University of Iowa

Page 2
Sample Number 200507645

GC/MS 524.2 Volatiles

Analyte	Concentration ug/L	Quantitation Limit ug/L
Methylene chloride	<1.0	1.0
1,1-Dichloroethene	<0.5	0.5
trans-1,2-Dichloroethylene	<0.5	0.5
cis-1,2-Dichloroethylene	<0.5	0.5
1,2-Dichloroethane	<0.5	0.5
1,1,1-Trichloroethane	<0.5	0.5
Carbon tetrachloride	<0.5	0.5
1,2-Dichloropropane	<0.5	0.5
Trichloroethene	<0.5	0.5
1,1,2-Trichloroethane	<0.5	0.5
Benzene	<0.5	0.5
Tetrachloroethylene	<0.5	0.5
Toluene	<0.5	0.5
Chlorobenzene	<0.5	0.5
Ethylbenzene	<0.5	0.5
Styrene	<0.5	0.5
Total Xylenes	<0.5	0.5
o-Dichlorobenzene	<0.5	0.5
p-Dichlorobenzene	<0.5	0.5
1,2,4-Trichlorobenzene	<0.5	0.5

Comments

Please note that one or more non-target compounds were observed in the analysis of this sample.

Date Analyzed: 06-29-2005

Method: EPA 524.2

Analyst: LL

Verified: JN

SDWA Regulated SOC A/S #3

Analyte	Concentration mg/L	Quantitation Limit mg/L
2,4-D	<0.001	0.001
Silvex	<0.0002	0.0002
Dalapon	<0.001	0.001
Dinoseb	<0.0005	0.0005
Pentachlorophenol	<0.0005	0.0005
Picloram	<0.0005	0.0005

Date Analyzed: 07-07-2005

Method: EPA 515.3

Date Prepared: 07-01-2005

Preparation Method: EPA 515.3

Analyst: JF

Verified: VR

Analyst: AS

Verified: GJ

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Hygienic Laboratory

The University of Iowa

Page 3
Sample Number 200507645

Description of units used within this report

mg/L - Milligrams per Liter

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, NELAP, USEPA, NVLAP #101288-0 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.

Page 3 - End of Report

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

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2220 S. Ankeny Blvd, Ankeny, Iowa 50023
515/725-1600 Fax: 515/725-1642



Hygienic Laboratory

The University of Iowa

Date of report: 07-05-2005

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LGI
1532 DEWITT
PO BOX 247
ELLSWORTH IA 50075

Sample Number	200558744
Date Received	06-29-2005
Project	SDWA
Date Collected	06-28-2005 13:45
Collection Site	new well #10
Collection Town	Dallas Center
Description	water
Reference	WELL #10
Collector	DAVIS LARRY
Phone	(515) 992-3725
Purchase Order	

Comments Upon receipt at the UHL sample meets standard acceptance criteria.

SDWIS Information

PWS Id: IA2520098
Sample Category: Chemical

Facility Id: 950
Sample Type: Special

Sample Point Id: 950

Results of Analyses

Total Sodium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Sodium	12	0.50

Date Analyzed: 06-30-2005

Method: EPA 200.7

Analyst: DC

Verified: SB

Description of units used within this report

mg/L - Milligrams per Liter

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, NELAP, USEPA, NVLAP #101288-0 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.



THE SERVICE LAB

LGI

REPORT TO:

CITY OF DALLAS CENTER
LARRY DAVIS
1502 WALNUT
DALLAS CENTER, IA 50063

July 6, 2005

WATER QUALITY PARAMETER ANALYSIS

SAMPLE ID: 06-29.01WQ
DATE COLLECTED: 6/28/2005
DATE RECEIVED: 6/29/2005
LOCATION: NEW WELL #10
SAMPLE TYPE: Source
pH:
TEMPERATURE: 58

Parameters	Concentration	Unit	Date Analyzed
ALKALINITY	358	mg/L as CaCO ₃	6/30/2005
CONDUCTIVITY	755	uS/cm	6/30/2005
CALCIUM	160.8	mg/L as Ca	7/1/2005
HARDNESS	402	mg/L as CaCO ₃	6/30/2005

Laboratory
(515) 836-4444 Mike Lindaman

*mg/L - Milligrams per Liter
*ppm - parts per million

1532 DeWitt Street
Ellsworth, IA 50075
Phone: 515 836.4444
Fax: 515 836.4541
lindaman@netins.net

Bacterial Analysis Report

L G I

Public Water Supply

"The Service Laboratory"
1532 Dewitt P.O. Box 247
Ellsworth, IA 50075
(515)836-4444

7/1/2005

CITY OF DALLAS CENTER
LARRY DAVIS
PO BOX 396
DALLAS CENTER

IA 50063

DALLAS CENTER WATER
Public Water Supply Name

2520098

PWS ID

950

Facility ID

950

Sampling Point ID

NEW WELL 10

Sample Collection Location

DAVIS LARRY

Sample Collector (Last Name, First)

2005 - 6 - 29

Year Month Day

Sample Received Date

SP1005

Laboratory Sample Number

Sample
Type

Routine: ☐

Repeat: ☐

Special: ☒

061
IA LAB #

Free Chlorine (mg/L)

2005 - 6 - 28

Year Month Day

Sample Collection Date

Total Chlorine (mg/L)

13:45

Sample Collection Time

Complete this box only for Repeat Samples

Original Sample Number

Repeat Code

Original ☐

Up Stream ☐

Down Stream ☐

Other ☐

Start of Analysis

Contaminant ID	TEST	Method Code	Year-Month-Day	Time (24hr)	Microbe
3100	Total Coliform	COLISURE-PA	2005/6/29	11:12	Present ☐ Absent ☒
3013	Fecal Coliform				Present ☐ Absent ☐
3014	E. coli				Present ☐ Absent ☐
3001	HPC				Absent ☐ (<1 CFU/mL)
	Count	Count Type	Units		
		CFU	mL		

13

Phone Number : 515-836-4444

02/29/2005-(11:1)

Date : 7/1/2005



Hygienic Laboratory

The University of Iowa

Page 2
Sample Number 200559162

Total Thallium

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

Date Analyzed: 07-11-2005

Analyst: SB

Method: EPA 200.8

Verified: LF

Total Arsenic

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Arsenic	0.001	0.001

Date Analyzed: 07-12-2005

Analyst: SB

Method: EPA 200.8

Verified: LF

Total Selenium

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

Date Analyzed: 07-12-2005

Analyst: SB

Method: EPA 200.8

Verified: LF

Total Mercury

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

Date Analyzed: 07-19-2005

Analyst: PJM

Method: EPA 245.1

Verified: SB

Total Barium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Barium	0.15	0.05

Date Analyzed: 07-08-2005

Analyst: DC

Method: EPA 200.7

Verified: LF

Total Chromium

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

Date Analyzed: 07-08-2005

Analyst: DC

Method: EPA 200.7

Verified: LF

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Hygienic Laboratory

The University of Iowa

Page 3
Sample Number 200559162

Total Sodium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Sodium	11	0.50

Date Analyzed: 07-08-2005

Analyst: DC

Method: EPA 200.7

Verified: LF

SDWA NITRATE as N

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

Date Analyzed: 07-06-2005

Analyst: BR

Method: EPA 353.2

Verified: TAB

Description of units used within this report

mg/L - Milligrams per Liter

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, NELAP, USEPA, NVLAP #101288-0 and other credentials available upon request.

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