



Analytical Report

1702 East Central Avenue
Bentonville, AR 72712
479-271-7996 phone
479-271-8394 fax

12/29/09 10:49

Client: Town of Highfill
11978 Highfill Ave
Gentry AR, 72734

Work Order: BL90129
Project Name: Quarterly
Project Number: Quarterly

Attn: Frank Holzkamper

Date Received: 12/18/09

Sample ID	Laboratory ID	Date and Time Sampled	Sampled By	Sample Type
Lysimeter #1	BL90129-01	12/18/09 09:50	Joshua Marshall	Grab
Lysimeter #2	BL90129-02	12/18/09 10:40	Joshua Marshall	Grab
Lysimeter #3	BL90129-03	12/18/09 10:10	Joshua Marshall	Grab
Lysimeter #4	BL90129-04	12/18/09 10:15	Joshua Marshall	Grab
Lysimeter #6	BL90129-05	12/18/09 10:25	Joshua Marshall	Grab
Well #1	BL90129-06	12/18/09 10:00	Joshua Marshall	Grab
Well #2	BL90129-07	12/18/09 10:20	Joshua Marshall	Grab

Samples were received into laboratory at a temperature of 4.00 °C

Comments:

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager. Any opinions, if expressed, are outside the scope of the laboratory's accreditation.

This report and any attachment(s) contains information from Environmental Testing Group, Inc ("ETG"), and is confidential and privileged. The information is intended for the use of the individual or entity named above. If you are not the intended recipient, be aware that any review, disclosure, printing, copying, distribution, retransmission, dissemination or other use of the information and/or contents of this message is prohibited. If you receive this message in error, please contact the sender immediately and delete any and all copies of this message from your computer(s).

Results are reported on a wet weight basis unless otherwise noted.

The reported results were obtained in compliance with 2003 NELAC standards unless otherwise noted.

These results relate only to the items tested.

Estimated uncertainty is available upon request.

This report has been electronically signed.

David D'Amico
Laboratory Director

ADEQ 04-0574/07-087-0
NELAP/FL DOH E871035





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Attn: Frank Holzkamper

Date Received: 12/18/09

Lysimeter #1 BL90129-01 (Water) Sampled: 12/18/09 09:50

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	0.204		mg/L	0.030	0.100	1	12/23/09 07:19	JHM	EPA 350.1	B9L2206
NA	Nitrate/Nitrite as N	ND		"	0.0500	0.100	"	12/28/09 17:59	JHM	EPA 353.2	B9L2804
NA	Phosphorus, Total as P	0.450		"	0.0250	0.125	2.5	12/23/09 09:26	JHM	EPA 365.1	B9L2205
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	1	12/18/09 09:50	JHM	SM 4500-Cl B	B9L2105

Lysimeter #2 BL90129-02 (Water) Sampled: 12/18/09 10:40

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	0.031	J	mg/L	0.030	0.100	1	12/23/09 07:19	JHM	EPA 350.1	B9L2206
NA	Nitrate/Nitrite as N	ND		"	0.0500	0.100	"	12/28/09 17:59	JHM	EPA 353.2	B9L2804
NA	Phosphorus, Total as P	0.318		"	0.0250	0.125	2.5	12/23/09 09:26	JHM	EPA 365.1	B9L2205
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	1	12/18/09 10:40	JHM	SM 4500-Cl B	B9L2105

Lysimeter #3 BL90129-03 (Water) Sampled: 12/18/09 10:10

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	0.050	J	mg/L	0.030	0.100	1	12/23/09 07:19	JHM	EPA 350.1	B9L2206
NA	Nitrate/Nitrite as N	ND		"	0.0500	0.100	"	12/28/09 17:59	JHM	EPA 353.2	B9L2804
NA	Phosphorus, Total as P	0.358		"	0.0250	0.125	2.5	12/23/09 09:26	JHM	EPA 365.1	B9L2205
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	1	12/18/09 10:10	JHM	SM 4500-Cl B	B9L2105

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Attn: Frank Holzkamper

Date Received: 12/18/09

Lysimeter #4
BL90129-04 (Water) Sampled: 12/18/09 10:15

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	ND		mg/L	0.030	0.100	1	12/23/09 07:19	JHM	EPA 350.1	B9L2206
NA	Nitrate/Nitrite as N	ND		"	0.0500	0.100	"	12/28/09 17:59	JHM	EPA 353.2	B9L2804
NA	Phosphorus, Total as P	0.230		"	0.0250	0.125	2.5	12/23/09 09:26	JHM	EPA 365.1	B9L2205
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	1	12/18/09 10:15	JHM	SM 4500-Cl B	B9L2105

Lysimeter #6
BL90129-05 (Water) Sampled: 12/18/09 10:25

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	ND		mg/L	0.030	0.100	1	12/23/09 07:19	JHM	EPA 350.1	B9L2206
NA	Nitrate/Nitrite as N	ND		"	0.0500	0.100	"	12/28/09 17:59	JHM	EPA 353.2	B9L2804
NA	Phosphorus, Total as P	0.282	J	"	0.0250	0.125	2.5	12/23/09 09:26	JHM	EPA 365.1	B9L2205
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	1	12/18/09 10:25	JHM	SM 4500-Cl B	B9L2105

Well #1
BL90129-06 (Water) Sampled: 12/18/09 10:00

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	0.051	J	mg/L	0.030	0.100	1	12/23/09 07:19	JHM	EPA 350.1	B9L2206
NA	Nitrate/Nitrite as N	5.64		"	0.0500	0.100	"	12/28/09 17:59	JHM	EPA 353.2	B9L2804
NA	Phosphorus, Total as P	0.0198		"	0.0100	0.0500	"	12/23/09 09:26	JHM	EPA 365.1	B9L2205
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	"	12/18/09 10:00	JHM	SM 4500-Cl B	B9L2105

Well #2
BL90129-07 (Water) Sampled: 12/18/09 10:20

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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 Project Number: Quarterly

Attn: Frank Holzkamper

Date Received: 12/18/09

Well #2
BL90129-07 (Water) Sampled: 12/18/09 10:20

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
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Environmental Testing Group

Chemistry Parameters by APHA/EPA Methods

NA	Ammonia as N	ND		mg/L	0.030	0.100	1	12/23/09 07:19	JHM	EPA 350.1	B9L2206
NA	Nitrate/Nitrite as N	5.24		"	0.0500	0.100	"	12/28/09 17:59	JHM	EPA 353.2	B9L2804
NA	Phosphorus, Total as P	0.121		"	0.0100	0.0500	"	12/23/09 09:26	JHM	EPA 365.1	B9L2205
7782-50-5	Residual Chlorine	ND		"	0.200	0.200	"	12/18/09 10:20	JHM	SM 4500-Cl B	B9L2105

Notes and Definitions

- M2 The MS and/or MSD outside Laboratory historical or method prescribed limits due to sample matrix interference.
- J Estimated Value. Compound was detected below minimum quantitation levels.
- ND Analyte NOT DETECTED at MDL MDL Method Detection Limit
- PQL Practical Quantitation Limit ug/L Micrograms/Liter (PPB)
- mg/L Milligrams/Liter (PPM) ug/Kg Micrograms/Kilogram (PPB)
- mg/Kg Milligrams/Kilogram (PPM) dry Sample results reported on a dry weight basis

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Town of Highfill CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		Reporting Information		Bottle Type:		Preservation Codes:					
Town of Highfill 11978 Higfill Ave. Quarterly		Project Name Highfill Wastewater Treatment System E-Mail frank.holtzkamper@highfillar.com		A) 1 Liter Poly B) 500 mL Poly C) 250 mL Poly D) 1 L Amber Glass E) 330 mL Amber Glass F) 100 mL Snap Cap G) 43 mL VOA H) 50 mL centrifuge tube		1. Cool, 4 Degrees Centigrade Non-preserved 2. Sulfuric Acid (H ₂ SO ₄), pH < 2 3. Nitric Acid (HNO ₃), pH < 2			4. Thiosulfate for Dechlorination 5. Hydrochloric Acid (HCl) 6. Sodium Hydroxide (NaOH), pH > 12 7. H ₃ PO ₄ Phosphoric Acid		
Telephone (479) 936-4646 Fax (479) 736-5921 Bill to/ P.O.#		Preservative Code: 1		Bottle Type: C		TEST PARAMETERS					

Customer Number: 2015
 Project Manager: Frank Holtzkamper

Sampler(s) Signature: *Joshua H. Marshall*
 Sampler(s) Printed: Joshua H. Marshall

LAB ID #	SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix S=Solid W=Water	SAMPLE IDENTIFICATION . DESCRIPTION	Total residual Chlorine (field)	NH3-N, TP, NO2+NO3	TEST PARAMETERS									
	Date/s	Time/s								1	2	3	4	5	6	7	8	9	10
BL90129-01	12/18/09	0950	X		1	W	Lysimeter #1	X	X										
-02	↓	1040	X		1	W	Lysimeter #2	X	X										
-03	↓	1010	X		1	W	Lysimeter #3	X	X										
-04	↓	1015	X		1	W	Lysimeter #4	X	X										
	N/A	N/A	X		1	W	Lysimeter #5	X	X	<i>No water</i>									
-05	12/18/09	1025	X		1	W	Lysimeter #6	X	X										
-06	↓	1000	X		1	W	Monitoring well #1	X	X										
-07	↓	1020	X		1	W	Monitoring well #2	X	X										

BL90129-01 B
 Lysimeter #1
 Sampled: 12/18/09 09:50
 Water-Work Order Label
 Town of Highfill

1. Relinquished by: (Signature)	Date/Time	2. Received by: (Signature)	SAMPLE CONDITION UPON RECEIPTS IN LAB		REMARKS / COMMENTS
			1 CUSTODY SEALS: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples preserved in lab.	
			2 CONTAINERS CORRECT: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
			3 COC/LABELS AGREE: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
3. Relinquished by: (Signature)	Date/Time	4. Received by lab: (Signature)	4 PRESERVATION CONFIRMED: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
<i>Joshua H. Marshall</i>	12/18/09 1216	<i>Deanna Blumensy</i>	5 RECEIVED ON ICE: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
			6 TEMPERATURE UPON RECEIPT: 7 °C		
			FOR COMPLETION BY LAB ONLY		FEDEX UPS