



Arkansas Department of Correction

Danny Blankenship,
Maintenance Director
AR Dept of Correction
North Central Unit
10 Prison Circle
Calico Rock, Arkansas
72519-0300
Phone: (870) 297-3304
Fax: (870) 297-4388

To: Miss Tiffany Williams
From: Mr. Danny Blankenship, Maintenance Director
Date: May 7, 2014
Re:

05/07/2014

This is in response to ADEQ Compliance Inspections Izard Co conducted on March 20th, 2014.

1. The operators of the facility are only licensed as Class I and/or Class II operators. This is a violation of Part II.1 of your permit. **Attending class in Lonoke Nov 17 to 21**
2. The secondary flow measuring device has not been calibrated nor have calibration checks been performed. This is a violation of Part II.3 of your permit. **Calibrated on 4/28/2014.**
3. The facility is not preparing and maintaining a record or a certification statement on each batch of land applied biosolids as required by the permit. This is a violation of Part II.5.d of your permit. **Here is a copy for 2013 where biosolids were placed. See attachment.**
4. Biosolids analyses and reporting have not been performed. This is a violation of Part II.5n of your permit. **See enclosure McClelland Consulting Engineers**
5. The facility land applied biosolids after February 1, 2013 (see attachment #1). This is a violation of Part II.6 of your permit. **McClelland Consulting Eng. working of this item.**
6. There were large amounts of trash floating in the oxidation ditch. This is a violation of Part III.B.1 of your permit. **Placed second Bar screen in.**

Thank You Danny Blankenship

North Central Unit



McClelland Consulting Engineers, Inc.
ATTN: Mr. Bill Miles
Post Office Box 34087
Little Rock, AR 72203-4087

Bill Miles

March 31, 2014
Control No. 175607
Page 1 of 6

ATTN: *DANNY Blankenship*

This report contains the analytical results and supporting information for the sample submitted on March 20, 2014. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.

[Signature]
John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: McClelland Consulting Engineers, Inc.
ATTN: Mr. Bill Miles
bmiles@mcclelland-engrs.com

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MARCH 31 2014
MCCLELLAND CONSULTING ENGINEERS, INC.



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Post Office Box 34887
City Rock, AR 72203-4087

SAMPLE INFORMATION

Project Description:

One (1) sludge sample(s) received on March 20, 2014.

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below.

Sample Identification:

Laboratory ID	Client Sample ID	Sampled Date/Time	Notes
175607	Calico Rock 3/19	19-Mar-2014	1

Notes:

1. Sample label was incomplete in regard to date/time of sampling.

Qualifiers:

- Analytical holding time exceeded regulatory requirements
- Spiking level is invalid due to the high concentration of analyte in the spiked sample

Case Narrative:

Analysis of soils/sludges are reported on a dry-weight basis unless otherwise specified.

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements: EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC)

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 NCU
 March 31, 2014
 Control No: 173607
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ANALYTICAL RESULTS

AIC No: 173607-3

Sample Identification: Calico Rock 3/19

Analyte	Result	RL	Units	Qualifier
pH EPA 9040	6.8		Units	H
Total Solids SM 2540.2-1997	23	0.01	wt %	
Volatile Solids SM 2540.2-1997	64	0.01	wt %	
Ammonia as N SM 4500-NH3-B-1997	6700	500	mg/Kg	
Total Kjeldahl Nitrogen SM 4500-Norg-D-1997	250000	40000	mg/Kg	
Arsenic EPA 8051A, 8010C	< 5	5	mg/Kg	
Cadmium EPA 200.1A, 8010C	< 0.4	0.4	mg/Kg	
Copper EPA 200.1A, 8010C	140	0.5	mg/Kg	
Lead EPA 200.1A, 8010C	< 4	4	mg/Kg	
Nickel EPA 200.1A, 8010C	7.9	1	mg/Kg	
Phosphorus EPA 200.1A, 8010C	9500	10	mg/Kg	
Potassium EPA 200.1A, 8010C	2300	100	mg/Kg	
Selenium EPA 200.1A, 8010C	< 7	7	mg/Kg	
Zinc EPA 200.1A, 8010C	250	0.2	mg/Kg	
Mercury EPA 1631B	< 0.1	0.1	mg/Kg	
Nitrate + Nitrite as N EPA 8060A	< 3	3	mg/Kg	



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	DU	Qual
Oil	176665-1	5.7 Units	1.90	5.00	20Mar14 1448 by 93	20Mar14 1700 by 92		H
	Batch: W47027 Duplicate	5.8 Units			20Mar14 1452 by 93	20Mar14 1700 by 93		H
Total Solids	176607-1	29 wt %	7.40	10.0	21Mar14 0927 by 271	23Mar14 1029 by 271		
	Batch: W47051 Duplicate	25 wt %			21Mar14 0839 by 271	25Mar14 1029 by 271		
Volatile Solids	176607-1	84 wt %	19.7	20.0	21Mar14 0928 by 271	25Mar14 1029 by 271		
	Batch: W47051 Duplicate	69 wt %			21Mar14 0830 by 271	25Mar14 1029 by 271		

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	DU	Qual
Oil	100	100	80.0-120			W47027	20Mar14 1452 by 93	20Mar14 1700 by 92		
Ammonia as N	20.0 mg/Kg	100	80.0-120			W47030	20Mar14 1610 by 305	21Mar14 0927 by 308		
Total Kjeldahl Nitrogen	50.0 mg/Kg	105	80.0-120			W47039	20Mar14 1625 by 305	25Mar14 1029 by 308		
Argenic	500 mg/Kg	108	85.0-115			S36493	24Mar14 1625 by 305	25Mar14 1248 by 305		
Cadmium	500 mg/Kg	105	85.0-115			S36493	24Mar14 1625 by 305	25Mar14 1248 by 305		
Copper	60.0 mg/Kg	102	85.0-115			S36493	24Mar14 1625 by 305	25Mar14 1248 by 305		
Lead	500 mg/Kg	101	85.0-115			S36493	24Mar14 1625 by 305	25Mar14 1248 by 305		
Nickel	50.0 mg/Kg	103	85.0-115			S36493	24Mar14 1625 by 305	25Mar14 1248 by 305		
Phosphorus	600 mg/Kg	106	85.0-115			S36493	24Mar14 1625 by 305	25Mar14 1248 by 305		
Potassium	1000 mg/Kg	103	85.0-115			S36493	24Mar14 1625 by 305	25Mar14 1248 by 305		
Selenium	500 mg/Kg	103	85.0-115			S36493	24Mar14 1625 by 305	25Mar14 1248 by 305		
Zinc	30.0 mg/Kg	99.9	85.0-115			S36493	24Mar14 1625 by 305	25Mar14 1248 by 305		
Mercury	1.25 mg/Kg	101	85.0-115			S36495	25Mar14 0922 by 271	25Mar14 1100 by 271		
Nitrate - Nitrite as N	80.0 mg/Kg	107	80.0-110			C16366	20Mar14 1645 by 47	21Mar14 0542 by 67		

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Control No. 178607
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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analytic Date	DR	Qual
Ammonia as N	178518-2	20.0 mg/Kg	-	80.0-120	W47013	20Mar14 09:12 by 93	21Mar14 11:09 by 308		X
	178518-2	19.9 mg/Kg	-	80.0-120	W47013	20Mar14 09:12 by 93	21Mar14 11:09 by 308		X
	Relative Percent Difference:		2.12	25.0	W47013				
Total Kjeldahl Nitrogen	176507-1	394 mg/Kg	-	80.0-120	W47039	20Mar14 16:45 by 308	25Mar14 10:08 by 308		X
	176507-1	382 mg/Kg	-	80.0-120	W47039	20Mar14 16:45 by 308	25Mar14 10:08 by 308		X
	Relative Percent Difference:		3.03	20.0	W47039				
Ammonia	176565-1	491 mg/Kg	99.7	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:51 by 305		X
	176565-1	499 mg/Kg	99.8	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:55 by 305		X
	Relative Percent Difference:		0.162	20.0	S36493				
Cadmium	176565-1	491 mg/Kg	97.6	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:51 by 305		X
	176565-1	499 mg/Kg	98.1	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:55 by 305		X
	Relative Percent Difference:		0.442	20.0	S36493				
Copper	176565-1	491 mg/Kg	99.7	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:51 by 305		X
	176565-1	499 mg/Kg	99.8	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:55 by 305		X
	Relative Percent Difference:		0.357	20.0	S36493				
Lead	176565-1	491 mg/Kg	99.5	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:51 by 305		X
	176565-1	499 mg/Kg	99.2	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:55 by 305		X
	Relative Percent Difference:		0.301	20.0	S36493				
Nickel	176565-1	491 mg/Kg	92.4	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:51 by 305		X
	176565-1	499 mg/Kg	92.8	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:55 by 305		X
	Relative Percent Difference:		0.209	20.0	S36493				
Phosphorus	176565-1	491 mg/Kg	93.8	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:51 by 305		X
	176565-1	499 mg/Kg	96.2	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:55 by 305		X
	Relative Percent Difference:		1.06	20.0	S36493				
Potassium	176565-1	998 mg/Kg	98.8	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:51 by 305		X
	176565-1	996 mg/Kg	100	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:55 by 305		X
	Relative Percent Difference:		0.354	20.0	S36493				
Selenium	176565-1	491 mg/Kg	97.0	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:51 by 305		X
	176565-1	499 mg/Kg	98.7	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:55 by 305		X
	Relative Percent Difference:		0.251	20.0	S36493				
Zinc	176565-1	491 mg/Kg	-	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:51 by 305		X
	176565-1	499 mg/Kg	-	75.0-125	S36493	24Mar14 16:25 by 305	25Mar14 12:55 by 305		X
	Relative Percent Difference:		1.83	20.0	S36493				
Mercury	176506-1	2.49 mg/Kg	89.0	70.0-130	S36495	25Mar14 09:22 by 311	26Mar14 11:02 by 311		X
	176506-1	2.41 mg/Kg	81.8	70.0-130	S36495	25Mar14 09:22 by 311	25Mar14 11:48 by 311		X
	Relative Percent Difference:		3.03	20.0	S36495				
Nitrate + Nitrite as N	176565-1	77.8 mg/Kg	107	80.0-120	C16556	26Mar14 16:45 by 07	21Mar14 06:08 by 07		X
	176565-1	77.8 mg/Kg	113	80.0-120	C16556	26Mar14 16:45 by 07	21Mar14 06:16 by 07		X
	Relative Percent Difference:		3.63	10.0	C16556				

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LABORATORY BLANK RESULTS

Analyte	Recult	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Solids	< 0.01 wt %	0.01	0.01	W47051-1	21Mar14 0938 by 271	25Mar14 1626 by 271	
Volatile Solids	< 0.01 wt %	0.01	0.01	W47051-1	21Mar14 0938 by 271	25Mar14 1626 by 271	
Ammonia as N	< 2 mg/Kg	2	2	W47013-1	20Mar14 0912 by 29	21Mar14 0921 by 308	
Total Kjeldahl Nitrogen	< 10 mg/Kg	10	10	W47039-1	20Mar14 1645 by 308	25Mar14 0528 by 308	
Arsenic	< 5 mg/Kg	5	5	S36493-1	24Mar14 1625 by 305	25Mar14 1244 by 305	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S36493-1	24Mar14 1625 by 305	25Mar14 1244 by 305	
Copper	< 0.8 mg/Kg	0.8	0.8	S36493-1	24Mar14 1625 by 305	25Mar14 1244 by 305	
Lead	< 4 mg/Kg	4	4	S36493-1	24Mar14 1625 by 305	25Mar14 1244 by 305	
Nickel	< 1 mg/Kg	1	1	S36493-1	24Mar14 1625 by 305	25Mar14 1244 by 305	
Phosphorus	< 10 mg/Kg	10	10	S36493-1	24Mar14 1625 by 305	25Mar14 1244 by 305	
Potassium	< 100 mg/Kg	100	100	S36493-1	24Mar14 1625 by 305	25Mar14 1244 by 305	
Selenium	< 7 mg/Kg	7	7	S36493-1	24Mar14 1625 by 305	25Mar14 1244 by 305	
Zinc	< 0.2 mg/Kg	0.2	0.2	S36493-1	24Mar14 1625 by 305	25Mar14 1244 by 305	
Manganese	< 0.1 mg/Kg	0.1	0.1	S36495-1	25Mar14 0922 by 311	25Mar14 1155 by 311	
Mercury - Methyl as Hg	< 0.5 mg/Kg	0.5	0.5	G16596-1	25Mar14 1645 by 67	24Mar14 0515 by 67	

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Invoice

Calibration & Controls, Inc.

Jeff Porterfield
 1156 Salem Road
 Benton, AR 72019
 #501-316-3285 Fax #501-794-3285

DATE	INVOICE #
4/28/2014	7006

BILL TO
Arkansas Dept. of Corrections/N. Central Danny Blakenship 10 Prison Circle Calico Rock, AR 72519

P.O. NO.	TERMS	REQUESTED BY	SERVICE DATE
4501439083	Due on receipt	D. Blakenship	4/28/2014

DESCRIPTION	QTY	RATE	AMOUNT
North Central Unit, Calico Rock, AR Calibrate effluent flowmeter. Calibration Report enclosed. Labor: 8 hrs. x \$85.00/hr.	8	85.00	680.00
Subtotal			\$680.00
Sales Tax (9.0%)			\$61.20
Total			\$741.20
Payments/Credits			\$0.00
Balance Due			\$741.20

Service fee of 1.5% per month or the maximum allowed by law, whichever is higher, will be added to all past due invoices.





ADC Construction/Maintenance
7800 Correction Circle
Pine Bluff, Arkansas 71603

720 721 72114S **S4-16**

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