



**NOTICE OF INTENT (NOI) for Land Application of Non-Exceptional Quality Biosolids**

**E. VECTOR ATTRACTION REDUCTION LEVEL ACHIEVED:** Indicate the option used to achieve the vector attraction reduction.

- Option 1       Option 2       Option 3       Option 4  
 Option 5       Option 6       Option 7       Option 8

If one of the vector attraction reduction Options 1 - 5 is selected, do the biosolids meet Class A pathogen reduction requirements prior to or at the same time as meeting the vector attraction reduction requirements?

- Yes       No

Provide a detailed description of the vector attraction reduction treatment process. Attach laboratory analytical and/or process monitoring results, as appropriate, that demonstrate vector attraction reduction is being achieved:

The settled solids transferred from the sequential batch reactor are aerobically digested onsite. Although not initially tested for volatile solids and/or SOUR, an attempt will be made prior to land application to meet either Option 1 or Option 4. If the material fails to meet Option 1 or Option 4, Option 10 will be utilized.

**F.** If one of the vector attraction reduction Options 1 - 8 above was not performed, indicate how the vector attraction reduction will be performed on the field as part of the land application process:

- Option 9 (Subsurface Injection)                       Option 10 (Incorporation)

If Option 1 or Option 4 fail, the material will be land applied as a liquid and will be incorporated within 6 hours in accordance with Option 10.

**G. SAMPLING PLAN:** Include a detailed copy of the biosolids sampling plan as specified in the instructions. The sampling plan must address sampling protocols for contaminants, pathogen reduction, and vector attraction reduction quality criteria.

Due to the small size of the plant and resultant small amount of material generated, the biosolids will be sampled on an event-timed basis and immediately prior to land application.

**H. LAND APPLICATION AREA(S):** Include a list of land application area(s) that will be used for disposal of biosolids. Attach a detailed map showing appropriate buffers in accordance with section 3.2.1 (add additional pages if necessary)

Area Number	Area (acres)	Application Rate (tons/acre) per section 3.2.2	Latitude (decimal)	Longitude (decimal)
TN-FA-1	~112.5	Bermuda Hay - application rate would be ~8 DryTon/Acre at ~3.5% solids	35.136145	-89.553261

**I. CERTIFICATION:** I certify, under penalty of law, that contaminant concentrations in the biosolids, pathogen reduction, vector attraction reduction, and other quality criteria of the biosolids stated in the regulations have been met or, if appropriate, will be met prior to land application of biosolids. I further certify that other information in this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my own knowledge as well as the inquiry of the person(s) who manage the system, or those directly responsible for gathering the information, the information submitted, to the best of my knowledge and belief, is true, accurate and complete. I further acknowledge that the facility or generator of biosolids described above is eligible for coverage under TDEC's General Permit for the Land Application of Biosolids. I am aware that there are significant penalties for submitting false information, including possibility of fines and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

**Name:** \_\_\_\_\_ **Title:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Telephone:** ( ) \_\_\_\_\_ **Date Signed:** \_\_\_\_/\_\_\_\_/\_\_\_\_

**NOTE:** In evaluating NOI forms, TDEC may request additional information to complete its review to determine the eligibility for coverage under TDEC's General Permit.

Submit the original completed and signed form to [Water.Permits@tn.gov](mailto:Water.Permits@tn.gov) or:  
 Biosolids NOI Processing - Division of Water Resources  
 William R. Snodgrass - Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor  
 Nashville, TN 37243-1102



2790 Whitten Road, Memphis, TN 38133  
 Main 901.213.2400 ° Fax 901.213.2440  
 www.waypointanalytical.com

02809  
 Metro Desoto WWTP  
 Mr. Robert Richmond  
 11299 Stateline Rd  
 Olive Branch , MS 38654

Project Chickasaw Trails WWTP  
 Information :

Report Date : 05/24/2017  
 Received : 5/16/2017

*Randell H. Thomas*

Randy Thomas  
 Project Manager

Report Number : **17-136-0254**

**REPORT OF ANALYSIS**

Lab No : **97353**  
 Sample ID : **Sludge**

Matrix: **Sludge**  
 Sampled: **5/15/2017 13:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
TCLP Herbicide Extraction	<b>Combined</b>			1	05/18/17 17:50	SAJ	SW-1311
TCLP Metals Extraction	<b>Combined</b>			1	05/18/17 17:50	SAJ	SW-1311
TCLP Pesticide Extraction	<b>Combined</b>			1	05/18/17 17:50	SAJ	SW-1311
TCLP SVOC Extraction	<b>Combined</b>			1	05/18/17 17:50	SAJ	SW-1311
TCLP VOC ZHE Extraction	<b>Combined</b>			1	05/18/17 18:03	SAJ	SW-1311 (ZHE)

**Analytical Method:** 6010C  
**Prep Method:** 3005A

**Prep Batch(es):** **L333788** 05/19/17 10:40

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
TCLP Arsenic	<0.025	mg/L	0.025	1	05/19/17 20:03	KKM	L333998
TCLP Barium	<b>0.050</b>	mg/L	0.025	1	05/19/17 20:03	KKM	L333998
TCLP Cadmium	<0.005	mg/L	0.005	1	05/19/17 20:03	KKM	L333998
TCLP Chromium	<0.010	mg/L	0.010	1	05/22/17 17:48	KKM	L334088
TCLP Lead	<0.010	mg/L	0.010	1	05/22/17 17:48	KKM	L334088
TCLP Selenium	<0.050	mg/L	0.050	1	05/19/17 20:03	KKM	L333998
TCLP Silver	<0.005	mg/L	0.005	1	05/19/17 20:03	KKM	L333998

**Qualifiers/  
 Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Lab No : **97353**  
 Sample ID : **Sludge**

Matrix: **Sludge**  
 Sampled: **5/15/2017 13:35**

**Analytical Method:** 7470A      **Prep Batch(es):** L333803 05/19/17 11:25  
**Prep Method:** 7470A

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Batch
TCLP Mercury	<0.0200	mg/L	0.0200	1	05/19/17 16:52	ABC	L333835

**Analytical Method:** 8081A      **Prep Batch(es):** L334123 05/22/17 18:00  
**Prep Method:** 3510C

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Batch
TCLP Endrin	<0.001600	mg/L	0.001600	10	05/23/17 01:47	VIC	L334285
TCLP gamma-BHC	<0.001600	mg/L	0.001600	10	05/23/17 01:47	VIC	L334285
TCLP Methoxychlor	<0.001600	mg/L	0.001600	10	05/23/17 01:47	VIC	L334285
TCLP Toxaphene	<0.01200	mg/L	0.01200	10	05/23/17 01:47	VIC	L334285
TCLP Chlordane	<0.008000	mg/L	0.008000	10	05/23/17 01:47	VIC	L334285
TCLP Heptachlor Epoxide	<0.001600	mg/L	0.001600	10	05/23/17 01:47	VIC	L334285
TCLP Heptachlor	<0.001600	mg/L	0.001600	10	05/23/17 01:47	VIC	L334285
Surrogate: Decachlorobiphenyl	82.04		Limits: 36-116%	10	05/23/17 01:47	VIC	L334285
Surrogate: Tetrachloro-m-xylene	41.21		Limits: 25-123%	10	05/23/17 01:47	VIC	L334285

**Analytical Method:** 8151A      **Prep Batch(es):** L333930 05/22/17 08:00  
**Prep Method:** 8151A

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Batch
TCLP 2,4-D	<0.0200	mg/L	0.0200	1	05/23/17 14:11	VIC	L334303

**Qualifiers/ Definitions**      DF      Dilution Factor      MQL      Method Quantitation Limit





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Randy Thomas  
 Project Manager

Report Number : **17-136-0254**

**REPORT OF ANALYSIS**

Lab No : **97353**  
 Sample ID : **Sludge**

Matrix: **Sludge**  
 Sampled: **5/15/2017 13:35**

**Analytical Method:** 8151A      **Prep Batch(es):** L333930 05/22/17 08:00  
**Prep Method:** 8151A

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
TCLP 2,4,5-TP (Silvex)	<0.0020	mg/L	0.0020	1	05/23/17 14:11	VIC	L334303
Surrogate: DCAA	48.00		Limits: 20-120%	1	05/23/17 14:11	VIC	L334303

**Analytical Method:** 8260B      **Prep Batch(es):** L333973 05/20/17 12:09  
**Prep Method:** 5030B

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
TCLP Benzene	<0.0100	mg/L	0.0100	1	05/20/17 19:21	LAT	L334002
TCLP Carbon Tetrachloride	<0.0100	mg/L	0.0100	1	05/20/17 19:21	LAT	L334002
TCLP Chlorobenzene	<0.0100	mg/L	0.0100	1	05/20/17 19:21	LAT	L334002
TCLP Chloroform	<0.0100	mg/L	0.0100	1	05/20/17 19:21	LAT	L334002
TCLP 1,4-Dichlorobenzene	<0.0100	mg/L	0.0100	1	05/20/17 19:21	LAT	L334002
TCLP 1,2-Dichloroethane	<0.0100	mg/L	0.0100	1	05/20/17 19:21	LAT	L334002
TCLP 1,1-Dichloroethene	<0.0100	mg/L	0.0100	1	05/20/17 19:21	LAT	L334002
TCLP Methyl Ethyl Ketone (MEK)	<0.200	mg/L	0.200	1	05/20/17 19:21	LAT	L334002
TCLP Tetrachloroethene	<0.0100	mg/L	0.0100	1	05/20/17 19:21	LAT	L334002
TCLP Trichloroethene	<0.0100	mg/L	0.0100	1	05/20/17 19:21	LAT	L334002
TCLP Vinyl Chloride	<0.0100	mg/L	0.0100	1	05/20/17 19:21	LAT	L334002
Surrogate: 4-Bromofluorobenzene	98.4		Limits: 71-137%	1	05/20/17 19:21	LAT	L334002
Surrogate: Dibromofluoromethane	95.4		Limits: 70-128%	1	05/20/17 19:21	LAT	L334002
Surrogate: 1,2-Dichloroethane - d4	88.8		Limits: 63-136%	1	05/20/17 19:21	LAT	L334002
Surrogate: Toluene-d8	95.4		Limits: 70-130%	1	05/20/17 19:21	LAT	L334002

**Qualifiers/ Definitions**      DF      Dilution Factor      MQL      Method Quantitation Limit



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Project Chickasaw Trails WWTP  
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Report Date : 05/24/2017  
 Received : 5/16/2017

*Randell H. Thomas*

Randy Thomas  
 Project Manager

Report Number : **17-136-0254**

**REPORT OF ANALYSIS**

Lab No : **97353**  
 Sample ID : **Sludge**

Matrix: **Sludge**  
 Sampled: **5/15/2017 13:35**

**Analytical Method:** 8270C      **Prep Batch(es):** **L334021** 05/22/17 11:00  
**Prep Method:** 3510C

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
TCLP 2-Methylphenol	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103
TCLP 3&4 Methylphenol	<0.040	mg/L	0.040	1	05/22/17 16:16	CGC	L334103
TCLP 2,4-Dinitrotoluene	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103
TCLP Hexachlorobenzene	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103
TCLP Hexachlorobutadiene	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103
TCLP Hexachloroethane	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103
TCLP Nitrobenzene	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103
TCLP Pentachlorophenol	<0.040	mg/L	0.040	1	05/22/17 16:16	CGC	L334103
TCLP Pyridine	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103
TCLP 2,4,5-Trichlorophenol	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103
TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103
Surrogate: TCLP 2,4,6-Tribromophenol	52.6		Limits: 40-125%	1	05/22/17 16:16		L334103
Surrogate: TCLP 2-Fluorobiphenyl	49.5		Limits: 38-107%	1	05/22/17 16:16		L334103
Surrogate: TCLP 2-Fluorophenol	26.9		Limits: 20-110%	1	05/22/17 16:16		L334103
Surrogate: TCLP 4-Terphenyl-d14	74.3		Limits: 33-122%	1	05/22/17 16:16		L334103
Surrogate: TCLP Nitrobenzene-d5	54.3		Limits: 29-110%	1	05/22/17 16:16		L334103
Surrogate: TCLP Phenol-d6	21.0		Limits: 10-115%	1	05/22/17 16:16		L334103

**Qualifiers/  
 Definitions**

DF Dilution Factor

MQL Method Quantitation Limit



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Project Chickasaw Trails WWTP  
 Information : Digester Sludge

Report Date : 5/30/2017

Report Number : **17-143-0275**

**REPORT OF ANALYSIS**

Received : 5/23/2017

Lab No : **93502**  
 Sample ID : **Grab 1**

Matrix: **Solids**  
 Sampled: **5/23/2017 8:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fecal Coliform MPN/g	<b>333000</b>	MPN/g - dry	90900	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	<b>96.7</b>	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Lab No : **93503**  
 Sample ID : **Grab 2**

Matrix: **Solids**  
 Sampled: **5/23/2017 8:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fecal Coliform MPN/g	<83300	MPN/g - dry	83300	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	<b>96.4</b>	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Lab No : **93504**  
 Sample ID : **Grab 3**

Matrix: **Solids**  
 Sampled: **5/23/2017 8:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fecal Coliform MPN/g	<b>164000</b>	MPN/g - dry	53600	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	<b>94.4</b>	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Lab No : **93505**  
 Sample ID : **Grab 4**

Matrix: **Solids**  
 Sampled: **5/23/2017 8:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fecal Coliform MPN/g	<81100	MPN/g - dry	81100	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	<b>96.3</b>	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

**Qualifiers/Definitions**      DF      Dilution Factor      MQL      Method Quantitation Limit





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Project Chickasaw Trails WWTP  
 Information : Digester Sludge

Report Date : 5/30/2017

Report Number : **17-143-0275**

**REPORT OF ANALYSIS**

Received : 5/23/2017

Lab No : **93506**

Matrix: **Solids**

Sample ID : **Grab 5**

Sampled: **5/23/2017 8:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fecal Coliform MPN/g	<b>796000</b>	MPN/g - dry	55600	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	<b>94.6</b>	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Lab No : **93507**

Matrix: **Solids**

Sample ID : **Grab 6**

Sampled: **5/23/2017 8:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fecal Coliform MPN/g	<b>65500</b>	MPN/g - dry	54500	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	<b>94.5</b>	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Lab No : **93508**

Matrix: **Solids**

Sample ID : **Grab 7**

Sampled: **5/23/2017 8:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Fecal Coliform MPN/g	<88200	MPN/g - dry	88200	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	<b>96.6</b>	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



**Geometric Mean Calculation**

Date: 5/30/2017

Analyst: C. Cook

Report Number: 17-143-0275

#	Sample Number	Measured Values			Conversion to Dry Weight	
		MPN Index Value	Highest ml used	% moisture	% solids	Dry Weight MPN/g
1	L 93502	11,000.0	0.001	96.7	0.03	333,333
2	L 93503	2,999.0	0.001	96.4	0.04	83,306
3	L 93504	9,200.0	0.001	94.4	0.06	164,286
4	L 93505	2,999.0	0.001	96.3	0.04	81,054
5	L 93506	43,000.0	0.001	94.6	0.05	796,296
6	L 93507	3,600.0	0.001	94.5	0.06	65,455
7	L 93508	2,999.0	0.001	96.6	0.03	88,206

Geometric Mean (using above values)

149,891.5

6/15/2017

Metro Desoto WWTP  
Mr. Robert Richmond  
11299 Stateline Rd  
Olive Branch, MS, 38654

Ref: Analytical Testing  
Lab Report Number: 17-160-0296  
Client Project Description: Chickasaw Trails WWTP

Dear Mr. Robert Richmond:  
Waypoint Analytical, Inc. received sample(s) on 6/9/2017 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

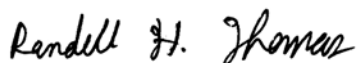
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Randy Thomas  
Project Manager

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.*

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180-11-6	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	Virginia #00106
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #41	



02809

Metro Desoto WWTP  
Mr. Robert Richmond  
11299 Stateline Rd  
Olive Branch , MS 38654

Project Chickasaw Trails WWTP  
Information :

Report Date : 6/15/2017

Report Number : **17-160-0296**

**REPORT OF ANALYSIS**

Received : 6/9/2017

Lab No : **96879**

Matrix: **Solids**

Sample ID : **Digester Sludge**

Sampled: **6/8/2017 13:03**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Aroclor 1016	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1221	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1232	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1242	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1248	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1254	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1260	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Surrogate: Decachlorobiphenyl	63.1		Limits: 25-125%	1	06/15/17 04:10	VIC	8082
Surrogate: Tetrachloro-m-xylene	93.8		Limits: 25-125%	1	06/15/17 04:10	VIC	8082

**Qualifiers/  
Definitions**

DF Dilution Factor

MQL Method Quantitation Limit



**Cooler Receipt Form**

Customer Number: **02809**  
 Customer Name: **Metro Desoto WWTP**  
 Report Number: **17-160-0296**

**Shipping Method**

Fed Ex       US Postal       Lab       Other :   
 UPS       Client       Courier      Thermometer ID: #8

Shipping container/cooler uncompromised?       Yes       No

Number of coolers received     

Custody seals intact on shipping container/cooler?       Yes       No       Not Required

Custody seals intact on sample bottles?       Yes       No       Not Required

Chain of Custody (COC) present?       Yes       No

COC agrees with sample label(s)?       Yes       No

COC properly completed       Yes       No

Samples in proper containers?       Yes       No

Sample containers intact?       Yes       No

Sufficient sample volume for indicated test(s)?       Yes       No

All samples received within holding time?       Yes       No

Cooler temperature in compliance?       Yes       No

Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.       Yes       No

Water - Sample containers properly preserved       Yes       No       N/A

Water - VOA vials free of headspace       Yes       No       N/A

Trip Blanks received with VOAs       Yes       No       N/A

Soil VOA method 5035 – compliance criteria met       Yes       No       N/A

High concentration container (48 hr)       Low concentration EnCore samplers (48 hr)

High concentration pre-weighed (methanol -14 d)       Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?       Yes       No

Comments:

Signature:

Date & Time:





2790 Whitten Road, Memphis, TN 38133  
Main 901.213.2400 ° Fax 901.213.2440  
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4/5/2017

Metro Desoto WWTP  
Mr. Robert Richmond  
11299 Stateline Rd  
Olive Branch, MS, 38654

Ref: Analytical Testing  
Lab Report Number: 17-083-0254  
Client Project Description: Chickasaw Trails

Dear Mr. Robert Richmond:  
Waypoint Analytical, Inc. received sample(s) on 3/24/2017 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randy Thomas  
Project Manager

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.*

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180-11-6	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	Virginia #00106
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #41	







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Client: Metro Desoto WWTP  
Project: Chickasaw Trails  
Lab Report Number: 17-083-0254  
Date: 4/5/2017

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**CASE NARRATIVE**

All analytes are being reported on a dry weight basis and as received basis.



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02809

Metro Desoto WWTP  
 Mr. Robert Richmond  
 11299 Stateline Rd  
 Olive Branch , MS 38654

Project Chickasaw Trails  
 Information :

Report Date : 4/5/2017

Report Number : **17-083-0254**

**REPORT OF ANALYSIS**

Received : 3/24/2017

Lab No : **96266**  
 Sample ID : **Digester**

Matrix: **Solids**  
 Sampled: **3/23/2017 10:04**

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	<b>96.5</b>	%	0.100	1	03/27/17 16:33	CJR	2540G-2011
Ammonia Nitrogen	<b>89.0</b>	mg/Kg	25.0	1	04/04/17 09:00	ZBD	4500NH3C-2011
Biochemical Oxygen Demand (5-day)	<b>6670</b>	mg/Kg	1200	1	03/24/17 11:03	DB2	5210B-2011
COD (Chemical Oxygen Demand)	<b>20300</b>	mg/Kg	3000	20	03/27/17 09:00	SNB	5220D-2011
Nitrate (NO3-N)	<b>20.9</b>	mg/Kg	1.00	1	03/31/17 18:32	BKN	9056
HEM: Oil and Grease	<1210	mg/Kg	1210	1	04/03/17 09:00	SMS	SW-9071B
pH	<b>6.7</b>	s.u.		1	03/23/17 10:04	FLD	FIELD ~
Total Solids	<b>3.50</b>	%	0.100	1	03/27/17 16:33	CJR	2540G-2011
Total Kjeldahl Nitrogen	<b>1140</b>	mg/Kg	50.0	1	04/04/17 14:25	CLP	4500NORGD-2011
Total Phosphorus	<b>336</b>	mg/Kg	25.0	1	04/04/17 14:27	CLP	365.4
Total Arsenic	<1.00	mg/Kg	1.00	1	04/03/17 22:08	KKM	6010C
Total Cadmium	<0.100	mg/Kg	0.100	1	04/03/17 22:08	KKM	6010C
Total Chromium	<b>1.73</b>	mg/Kg	0.250	1	04/03/17 22:08	KKM	6010C
Total Copper	<b>28.2</b>	mg/Kg	0.250	1	04/03/17 22:08	KKM	6010C
Total Lead	<b>0.941</b>	mg/Kg	0.300	1	04/03/17 22:08	KKM	6010C
Mercury (Total)	<0.0133	mg/Kg	0.0133	1	03/27/17 13:57	ABC	7471A
Total Molybdenum	<0.250	mg/Kg	0.250	1	04/03/17 22:08	KKM	6010C
Total Nickel	<b>1.19</b>	mg/Kg	0.250	1	04/03/17 22:08	KKM	6010C
Total Potassium	<b>116</b>	mg/Kg	5.00	1	04/03/17 22:08	KKM	6010C
Total Selenium	<1.00	mg/Kg	1.00	1	04/03/17 22:08	KKM	6010C
Total Silver	<0.250	mg/Kg	0.250	1	04/03/17 22:08	KKM	6010C
Total Zinc	<b>32.4</b>	mg/Kg	0.500	1	04/03/17 22:08	KKM	6010C

**Qualifiers/  
Definitions**

DF Dilution Factor

ML Method Quantitation Limit



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02809

Metro Desoto WWTP  
 Mr. Robert Richmond  
 11299 Stateline Rd  
 Olive Branch , MS 38654

Project Chickasaw Trails  
 Information :

Report Date : 4/5/2017

Report Number : **17-083-0254**

**REPORT OF ANALYSIS**

Received : 3/24/2017

Lab No : **96266**  
 Sample ID : **Digester**

Matrix: **Solids**  
 Sampled: **3/23/2017 10:04**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	<b>96.5</b>	%	0.100	1	03/27/17 16:33	CJR	2540G-2011
Ammonia Nitrogen	<b>2540</b>	mg/Kg - dry	714	1	04/04/17 09:00	ZBD	4500NH3C-2011
Biochemical Oxygen Demand (5-day)	<b>191000</b>	mg/Kg - dry	34300	1	03/24/17 11:03	DB2	5210B-2011
COD (Chemical Oxygen Demand)	<b>580000</b>	mg/Kg - dry	85700	20	03/27/17 09:00	SNB	5220D-2011
Nitrate (NO3-N)	<b>597</b>	mg/Kg - dry	28.6	1	03/31/17 18:32	BKN	9056
HEM: Oil and Grease	<34600	mg/Kg - dry	34600	1	04/03/17 09:00	SMS	SW-9071B
pH	<b>6.7</b>	s.u.		1	03/23/17 10:04	FLD	FIELD ~
Total Solids	<b>3.50</b>	%	0.100	1	03/27/17 16:33	CJR	2540G-2011
Total Kjeldahl Nitrogen	<b>32600</b>	mg/Kg - dry	1430	1	04/04/17 14:25	CLP	4500NORGD-2011
Total Phosphorus	<b>9600</b>	mg/Kg - dry	714	1	04/04/17 14:27	CLP	365.4
Total Arsenic	<28.6	mg/Kg - dry	28.6	1	04/03/17 22:08	KKM	6010C
Total Cadmium	<2.86	mg/Kg - dry	2.86	1	04/03/17 22:08	KKM	6010C
Total Chromium	<b>49.4</b>	mg/Kg - dry	7.14	1	04/03/17 22:08	KKM	6010C
Total Copper	<b>806</b>	mg/Kg - dry	7.14	1	04/03/17 22:08	KKM	6010C
Total Lead	<b>26.9</b>	mg/Kg - dry	8.57	1	04/03/17 22:08	KKM	6010C
Mercury (Total)	<0.380	mg/Kg - dry	0.380	1	03/27/17 13:57	ABC	7471A
Total Molybdenum	<7.14	mg/Kg - dry	7.14	1	04/03/17 22:08	KKM	6010C
Total Nickel	<b>34.0</b>	mg/Kg - dry	7.14	1	04/03/17 22:08	KKM	6010C
Total Potassium	<b>3310</b>	mg/Kg - dry	143	1	04/03/17 22:08	KKM	6010C
Total Selenium	<28.6	mg/Kg - dry	28.6	1	04/03/17 22:08	KKM	6010C
Total Silver	<7.14	mg/Kg - dry	7.14	1	04/03/17 22:08	KKM	6010C
Total Zinc	<b>926</b>	mg/Kg - dry	14.3	1	04/03/17 22:08	KKM	6010C

**Qualifiers/  
 Definitions**

DF Dilution Factor

MQL Method Quantitation Limit



**Cooler Receipt Form**

Customer Number: **02809**  
Customer Name: **Metro Desoto WWTP**  
Report Number: **17-083-0254**

**Shipping Method**

Fed Ex       US Postal       Lab       Other : \_\_\_\_\_  
 UPS       Client       Courier      Thermometer ID: #10

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Rebekah Ross

Date & Time: 03/24/2017 12:57:57



17-083-0254  
02809  
03-24-2017  
12:57:39

CHAIN-OF-CUSTODY

Metro Desoto WWTP  
Chickasaw Trails

Kit ID: 0000078727
Initiated By: Randy Thomas
Project Comment

Company Name <i>Mitchell Technical Services</i> <del>Metro Desoto WWTP</del>	Company Number 02809	Client Project Manager/Contact Metro Desoto WWTP	Purchase Order Number <i>5408</i>
Site Name <i>Chickasaw Trails</i> <del>Chickasaw Trails</del>	Project Number	<input type="checkbox"/> RUSH -- Additional charges apply <input type="checkbox"/> Special Detection Limits(s) Date Results Needed	Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off Other
LIMS Project ID	Project Manager Phone # (662) 893-0773	Project Manager Email	Site/Facility ID #

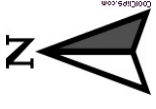
Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
3/23/17	1004	Digester	Aqueous	G	1	Plastic - Pint	NONE	pH/TSS/BOD
3/23/17	1004	Digester	Aqueous	G	1	Plastic - Pint	H2SO4 - Sulfuric Acid	COD
3/23/17	1004	Digester	Aqueous	G	1	Plastic - Pint	HNO3 - Nitric Acid	As/Cd/Cr/Cu/Pb/Hg/Ni/Ag/Zn
3/23/17	1004	Digester	Aqueous	G	1	Glass - 4oz	H2SO4 - Sulfuric Acid	O&G

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments			
Ice	Custody Seals	Lab Comments	<i>RWR</i>	<i>sample pH is 6.7</i>			
<input checked="" type="checkbox"/> Y/N	<input type="checkbox"/> Y/N		Relinquished by: (SIGNATURE) <i>[Signature]</i>	Date Time <i>3/24/17 12:15</i>	Received by: (SIGNATURE) <i>[Signature]</i>	Date Time <i>3/24/17 12:15</i>	
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
Blank/Cooler Temp <i>1.00</i>	<i>T-10</i>		Relinquished by: (SIGNATURE) <i>[Signature]</i>	Date Time <i>3/24/17 12:40</i>	Received by: (SIGNATURE) <i>[Signature]</i>	Date Time <i>3/24/17 12:40</i>	





3308 Bernice Avenue  
Russellville, AR 72802  
PO Box 3036 - Russellville, AR 72811  
Phone: 479-498-0500



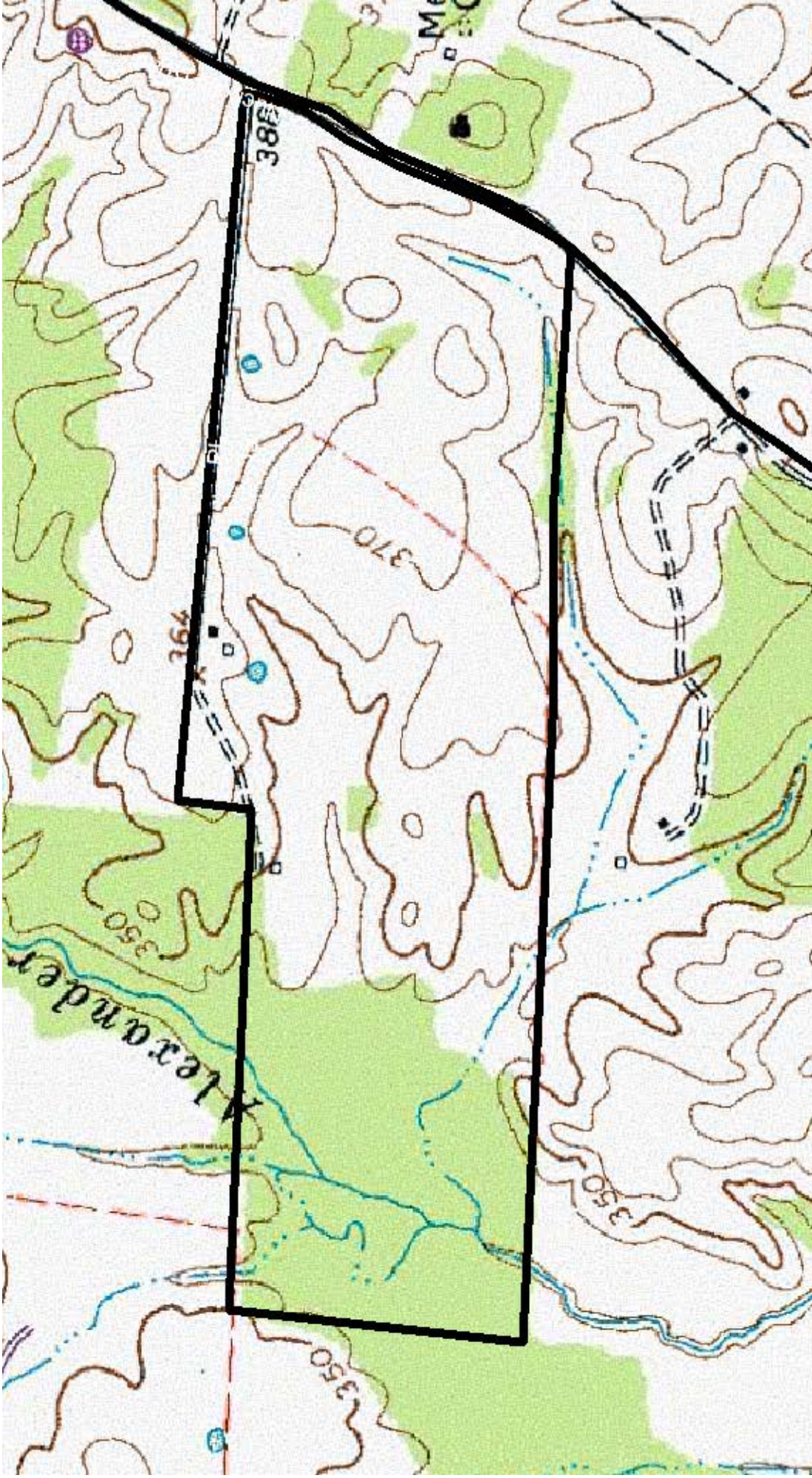
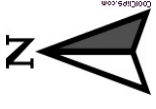
Owner: Carl Nuckolls  
Operator: Jamerson Farms  
Address: Farm - Nuckolls Road  
Macon, TN  
Phone: Jamerson - 901-485-5516

Property Line	
ortho_1-1_1n_s_tn047_2016_1	





3308 Bernice Avenue  
Russellville, AR 72802  
PO Box 3036 • Russellville, AR 72811  
Phone: 479-498-0500



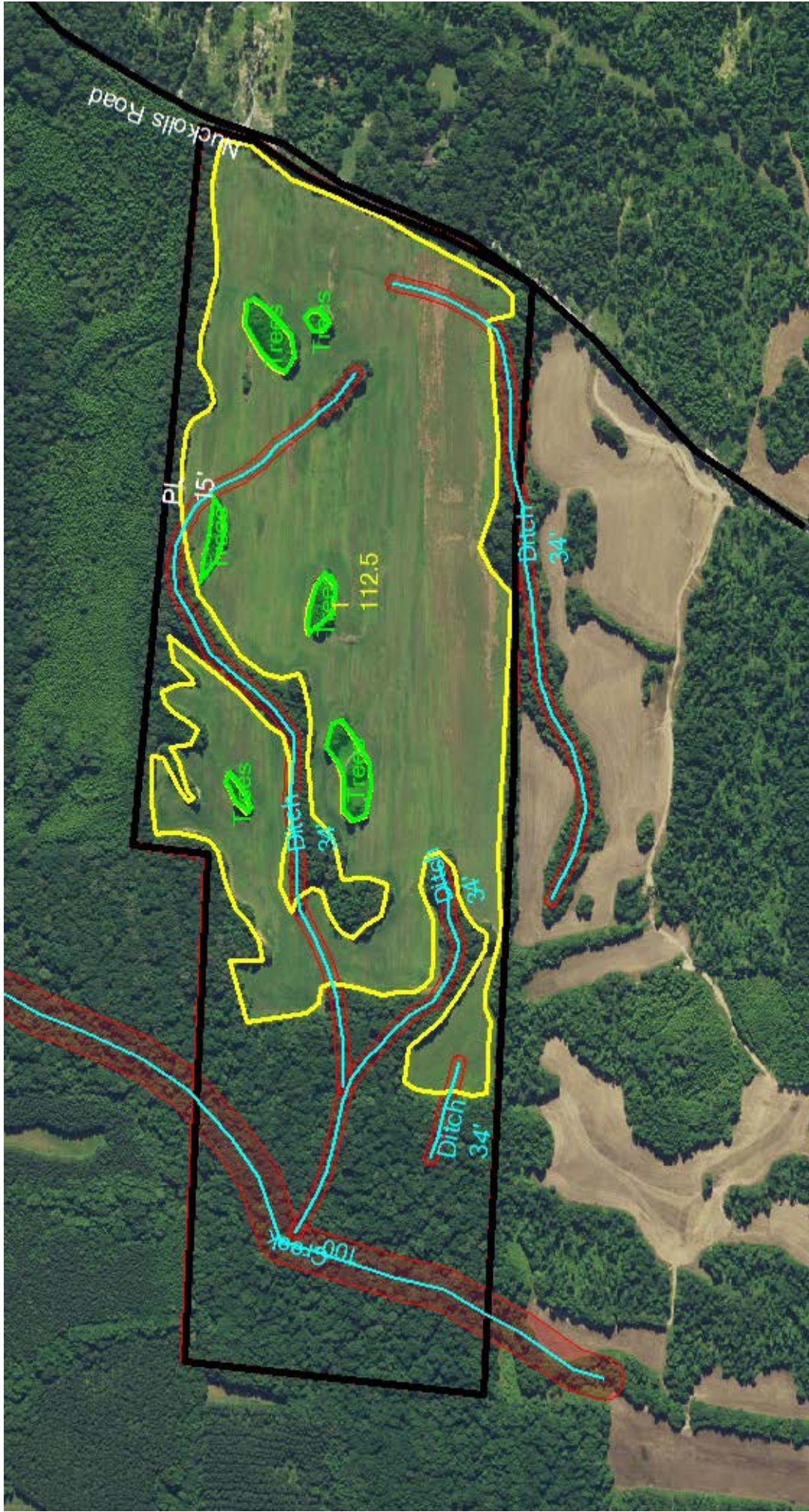
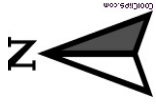
Owner: Carl Nuckolls  
Operator: Jamerson Farms  
Address: Farm - Nuckolls Road  
Macon, TN  
Phone: Jamerson - 901-485-5516

Property Line	^
drg_s_tn047	
ortho_1-1_1n_s_tn047_2016_1	





3308 Bernice Avenue  
 Russellville, AR 72802  
 PO Box 3036 - Russellville, AR 72811  
 Phone: 479-498-0500



Trees	
Creek or Ditch	
Property Line	
fields	
setbacks	
ortho_1-1_1n_s_in047_2016_1	

Owner: Carl Nuckolls  
 Operator: Jamerson Farms  
 Address: Farm - Nuckolls Road  
Macon, TN  
 Phone: Jamerson - 901-485-5516