REQUEST FOR BID

RESIDUAL BIOSOLIDS MANAGEMENT

Bid Number 2024-WR-23

July 2024

CLAYTON COUNTY WATER AUTHORITY
1600 Battle Creek Road
Morrow, GA 30260

Virtual Teams
Bid Opening **Tuesday, August 20, 2024, at 3:00 pm local time**

Virtual Teams
Non-Mandatory
Pre-Bid Virtual Meeting **Tuesday, August 6, 2024, at 3:00 pm local time**

This bid has a SLBE BID DISCOUNT

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Division 1 General Information

Section 1: Request for Bids

Clayton County Water Authority
1600 Battle Creek Road
Morrow, Georgia 30260

Name of Project: **Residual Biosolids Management**

The Clayton County Water Authority will open sealed bids via a Virtual Teams Meeting on **Tuesday, August 20, 2024, at 3:00 p.m. (local time)** for the following project: **Residual Biosolids Management.** Any bids received after the specified time will not be considered.

A Non-Mandatory Pre-Bid Virtual Teams Meeting will be held on **Tuesday, August 6, 2024, at 3:00 p.m. (local time).**

Please use the following call-in instructions to attend the Pre-Bid and Bid Opening meeting:

Join Microsoft Teams Meeting

+1 912-483-5368

Conference ID: 689 074 873#

CCWA encourages Small Local, Minority and Women-Owned businesses to participate and respond to this bid request.

In an effort to promote responsible environmental practices the bid package is available in electronic (Adobe PDF) format and can be requested via e-mail at **CCWA_Procurement@ccwa.us**, or by calling **770-960-5223**, M-F, 8:00 am - 5:00 pm. Bidders will need to provide contact information and an email address and any file size transfer limits to ensure email transmittals can be made. A hardcopy bid package can also be requested at a cost of $25.

Clayton County Water Authority
By: Dr. Cephus Jackson, Chairperson

END OF SECTION

Division 1 General Information

Section 2: Project Overview

1.1 Intent and Purpose

This is an invitation to your firm to submit a sealed bid for **Residual Biosolids Management** for the Clayton County Water Authority's Northeast, Casey, and Shoal Creek Water Reclamation Facilities for the time period of **September 1, 2024 to August 31, 2025.**

The contract may be extended for a second and/ or third one-year term by mutual consent of both parties with no changes in terms, conditions or prices.

The bids shall be delivered or mailed to the Clayton County Water Authority (CCWA), located at 1600 Battle Creek Road, Morrow, Georgia 30260, in a sealed envelope, on or before **Tuesday, August 20, 2024, at 3:00 p.m. (local time)**. The envelope shall be marked "Sealed Bid" and carry the bid title, date, and time of bid opening (refer to General Instructions to Bidders). Any and all bids received after this date and time will be considered unresponsive.

The prospective bidders are to carefully examine the work description given herein and sign where indicated that he or she understands the work required and agrees to perform the work as specified.

The CCWA Standards will govern all work under this contract for Residual Biosolids Management, as well as all applicable United States, State of Georgia, and local laws/regulations.

The work shall be performed under the direction of the Director of Water Reclamation of the Clayton County Water Authority or his authorized designated representative. Payment requests shall be addressed to the Water Reclamation Department of the Clayton County Water Authority for processing.

For those bidders that do not attend the non-mandatory pre-bid conference meeting on Tuesday, August 6, 2024, at 3:00 p.m. or for those bidders who wish to visit the sites may do so with the following limitations:

Each Bidder shall schedule a Site visit on **Wednesday, August 7, 2024 from 10:00am to 3:00 pm.** local time. Bidder shall schedule the Site visit at least 24 hours in advance by contacting the following CCWA staff for each location:

Mr. Herlon Fayard (Northeast WRF):
770-302-3450
herlon.fayard@ccwa.us

Division 1 General Information

Section 2: Project Overview

Mr. Jordan Cole (Shoal Creek WRF):
770-302-3458
Mike.holt@ccwa.us

Mr. Tony Somerville (Casey Pelletizing):
770-302-3457
tony.somerville@ccwa.us

As part of the effort to maintain the health and safety of CCWA personnel – as well as visitors – CCWA has put in place the following procedures, practices and protocols:

The purpose of the site visit(s) is to view the solids loading facilities and the solids to be hauled and disposed. It is strongly encouraged that each bidder visits all three water reclamation facilities.

1.2 Bid Evaluation

A contract will be awarded to the lowest responsive responsible bidder whose bid conforms to the RFB specifications and will be the most advantageous to the Clayton County Water Authority. An evaluation will also be performed to ensure bidders comply with the required submittals.

All items and estimated quantities shown on the Bid Form are our best estimate on annual requirements and will be used for evaluation purposes only.

This procurement has a Small Local Business Enterprise (SLBE) bid discount for evaluation purposes only, which will be given to CCWA certified SLBE primes only (regardless of their location). For more details, please refer to Division 2, Section 8 of this bid package.

1.3 Addendum

Bidders may ask questions regarding this bid prior to the bid opening. To be considered, all questions must be received in writing via email at **(CCWA_Procurement@ccwa.us)** by **3:00 p.m. local time, on Thursday, August 8, 2024**. Any and all responses to bidders' questions will be issued in the form of an Addendum via email. All addenda issued shall become part of the Bid Documents.

END OF SECTION

Division 2 Bid Requirements

Section 1: Instructions to Bidders

These instructions are to be followed by every entity proposing to provide the Clayton County Water Authority (CCWA) with goods and/or services. These instructions constitute an integral part of the bid, and any Bidder agrees that tender of a bid constitutes acknowledgment and acceptance of its obligation to adhere to these instructions, which are to be incorporated into and considered part of any contract the Bidder ultimately executes with the CCWA.

1. If there is any question whatsoever regarding any portion of the specifications, it shall be the Bidder's responsibility to seek clarification immediately from the CCWA, as early as possible prior to the bid opening. Regarding public works projects, requests for interpretations of specifications must be made in writing to the department proposing out the project not later than five (5) days prior to receipt of bids.

2. Unless it is otherwise stated in the bid documents, it shall be the responsibility of the bidder to inform itself as to all conditions of the work site and to make and take account thereof in calculating and submitting its bid. Documents may be made available by the CCWA during the bidding process; no warranty of accuracy is made in regard to these documents, and it is the responsibility of the bidder to make its own investigations as to the nature of the work and the conditions under which it shall be performed, and to make its own independent assumptions as to these matters. The burden of anticipating unforeseen circumstances, either hidden or latent, and the conditions of the work site and all related circumstances, and the cost of accommodating therefore should unanticipated circumstances be later encountered shall rest upon the bidder.

3. Pre-bid meeting or any other information session will be held at the location as indicated in the solicitation. Unless indicated otherwise, attendance is not mandatory; although vendors are strongly encouraged to attend. However, in the event the meeting is mandatory, then a representative of the vendor must attend the meeting in its entirety to be considered eligible for solicitation award. Late entry to the meeting will not be allowed.

4. In the event that, after the acceptance of a bid by the Board of Directors of the CCWA, any unsuccessful bidder wishes to contest such action, a written "Notice of Contest" must be filed with the General Manager no later than close of business on the 5th business day after the selection of successful bidder by the Board. Failure to timely file such notice shall forever preclude the filing of a contest of the award, or any civil action in the courts of the State of Georgia or of the United States.

Division 2 Bid Requirements

Section 1: Instructions to Bidders

5. Information submitted by the Bidder in the bid process shall be subject to disclosure after bid award in accordance with the Georgia Open Records Act. Proprietary information must be identified and be accompanied by a signed affidavit outlining the redacted information. Entire bids may not be deemed proprietary.

6. Bids must be made on the enclosed bid Form. Unless otherwise requested, one (1) original and at least two (2) copies of the bid Form need to be submitted, and these copies must be typewritten or printed in ink. All copies of any bid Forms must be signed in ink by the person or persons authorized to sign the bid Form. The person signing the bid Form must initial any changes or corrections.

7. The name of the person, firm, or corporation making the bid must be printed in ink, along with the Bidder's signature, on all separate sheets of the bid Form. If a bid is made by an individual, his name and post office address must be shown. If made by a firm, or partnership, the name and the post office address of each member of the firm or partnership must be shown. If made by a Corporation, the person or persons signing the bid must show the name of the State under the laws of which the Corporation is chartered and his, or their, authority for signing same. The names, titles and addresses of the President, Secretary and the Treasurer and the corporate authority for doing business in this state shall be listed and returned with the bid Form.

8. All bids must be hand delivered, delivered by courier service, or mailed via the United States Postal Service. No facsimiles will be accepted. The person, firm, or corporation making the bid shall submit it in a sealed envelope on or before the date and time specified in the bid package. The envelope shall be marked "**Sealed Bid**" and carry the bid title, Contractor's License Number and date and time of opening as set forth in the bid package. The envelope shall also bear the name of the party making the bid and the party's address. Address bids to *Clayton County Water Authority, 1600 Battle Creek Road, Morrow, Georgia, 30260.* Even if a bid is not submitted, the bid form should be returned signed and with an explanation, otherwise the result will be deletion from the mailing list.

9. If published price books are a part of your bid, one price book must be included with your bid Form, and the successful Bidder is required to furnish additional current price books after award of the bid.

10. Alterations to the documents are strictly prohibited and shall result in automatic disqualification of the Bidder's bid. If there are "exceptions" to the specifications or comments to any of the solicitation requirements or other language, then the bidder

may ask questions regarding those requirements or submit additional documentation as to the variation from the specifications but may not alter any of the language contained in the solicitation.

11. In the case of goods, the person, firm or corporation making the bid may propose all items. All items may be considered separately, at the discretion of the CCWA.

12. Bids for public works whose price exceeds $100,000.00 must be accompanied by a certified check, cashier's check, or acceptable bid bond in an amount not less than five percent (5%) of the amount bid.

13. Bidders for construction contracts where the laws of Georgia or the United States of America require a license in order to perform such construction must list the license number and class on the face of the bid envelope and must enclose copies of any required license with the bid.

14. When public work is let out for bid, no person shall prevent or attempt to prevent competition in such bid. Such Bidders must make an oath filed with the officer who makes payments under the contract that they have not prevented or attempted to prevent competition in the bid process. Such oath must be signed by: if a partnership, all partners and any officer or agent or other person who acted on the partnership's behalf during the bid process; if a corporation, all officers, agents, or other persons who acted for the corporation in the bid process.

15. Bids shall not be withdrawn or cancelled by the bidder past the bid opening date and time. The bidder may make modifications/corrections to the bid by submitting a corrected seal bid but only if the change is prior to the bid opening. The corrected document should be clearly marked that it supersedes the bid originally submitted. No modification or corrections will be allowed subsequent to the bid opening.

16. By tendering a bid, a Bidder agrees to leave the bid open for acceptance by the CCWA for ninety (90) days after the date set for the opening thereof.

17. By tendering a bid, the Bidder certifies that the Bidder has carefully examined these instructions and the terms and specifications applicable to and made a part of the bid. The Bidder further certifies that the prices shown in any schedule of items on which the Bidder is proposing are in accordance with the conditions, terms and specifications of the bid and that they are aware that any exception taken thereto may disqualify the bid. Bidders are required to inform themselves fully as to the availability of materials and the conditions relating to construction and labor under which any work will be or is now being performed. No error or misjudgment nor any

lack of information on local conditions, general laws or regulations on the part of the Bidder shall merit withdrawal of the bid.

18. Copies of all communication pertaining to bids must be sent to the Contracts, Compliance and Risk Management Section.

19. The purpose of this bid is to establish contract prices. Unit price extension and net total must be shown if applicable. Cash discounts should be indicated separately. Any applicable sales taxes should be included in the unit prices for all materials to be provided by the successful Bidder.

20. Bidders are hereby notified and agree by submission of a bid Form that if additional items not listed in the bid Form become necessary and require unit prices not established by the bid Form, the unit prices of such items shall be negotiated and shall be directly proportional to the established unit prices of similar items in the bid Form.

21. All prices on goods shall be for delivery, our destination, f.o.b. freight prepaid Jonesboro, Georgia, and/or Morrow, Georgia, unless otherwise shown. Any deliveries shall be made as needed and requested throughout the contract period.

22. Quantities when shown are estimates only, based on anticipated needs. The CCWA reserves the right to purchase more or less based on actual need at contract price. If a Bidder intends to offer minimum or maximum shipment quantities, such intent and such quantities should be specified on the bid Form. Otherwise, none will be assumed.

23. The time for completion of the work is stated in the bid Form. Failure to complete the work within this period shall result in payment to the CCWA of liquidated damages in an amount provided for by contract for each calendar day in excess of the Contract time.

24. The Bidder must employ such methods and means in carrying out the work as will not cause any interruption of or interference with any other Bidder.

25. The successful Bidder must comply with the applicable Risk Management Requirements prior to beginning performance, and during the contract period.

26. The Contract between the CCWA and the Bidder shall be executed on a form provided by CCWA and will be subject to all requirements of the contract documents (which include but may not be limited to the Contract, these instructions,

any Purchase Orders, and the Risk Management Requirements), and shall form a binding contract between the contracting parties.

27. Failure to execute the Contract, any required Surety Performance and Payment Bonds, or to furnish any required satisfactory proof of carriage of required insurance within ten (10) days from the date of notice of award of the Contract shall be just cause for the annulment of the award and for forfeiture of the bid guaranty to the CCWA, not as a penalty, but in liquidation of damages sustained. At the discretion of the CCWA, the award may then be made to the next lowest responsible vendor, or the work may be re-advertised or constructed by the CCWA.

28. Any Contract and Contract Bonds shall be executed in duplicate.

29. Award of this bid shall be by action of the CCWA Board at its regular monthly meeting.

30. The CCWA reserves the right, with or without notice or cause, to accept any bid regardless of the cost thereof; to reject any bid, or any number of bids; to negotiate with any Bidder for a reduction of or alterations in its bid; to reject all bids and to call for additional bids upon the same or different invitations to bid, plans or specifications; to be sole judge, in its discretion, on all questions as to whether or not a bid complies with the invitation to bid, the plans or the specifications, and as to the solvency and sufficiency of any and all sureties on all bonds.

31. The apparent low bid for goods shall be considered to be the lowest aggregate total price of specified products at their unit prices times the estimated required quantities of these specified products.

32. Bids received from two (2) or more vendors that are identical in price, delivery and meet the requirements of the bid specifications shall be awarded on the following basis:

    a. The bid submitted by a vendor who does not have a documented negative vendor performance record.

    b. The bid submitted by a vendor who is located within Clayton County.

    c. The bid submitted by a vendor who is certified by our Small Local Business Enterprise Program.

    d. If the tie bids meet all the above criteria, and it is not in CCWA's best interest (at its sole discretion) to split the award, the bid award is based on the toss of a coin by CCWA staff in a public session. The vendors involved will be invited

to attend the coin toss at a stated date and time. One or more witnesses from both CCWA Procurement and the Request Department may be present. A simple coin toss (called by the vendor listed first in the alphabet) will break the tie and decide the award.

33. While price is the prime criteria, and the CCWA intends to purchase at the lowest responsible bid available, price shall not be the sole criteria utilized by the CCWA in evaluating the bid package submitted. The following criteria shall also be utilized by the CCWA in determining the lowest responsible bid:

    a. Ability of bidder to perform in the time frame needed by the CCWA.

    b. Reputation of the bidder in its industry.

    c. Reasonableness of the bid in relation to anticipated costs.

    d. Ongoing relationships with the CCWA based on above-average prior performance of work with CCWA.

    e. Preference for local vendors where there is no significant variance in price or service.

34. Bidders are notified that CCWA reserves the right except in the case of public works contracts to include among the factors considered in awarding the contract the proximity of each Bidder's place of business to any affected Authority facility. CCWA further reserves the right to award the contract to a Bidder other then the Bidder offering the lowest price where: (a) the difference in price between the low Bidder and the preferred Bidder is nominal: and (b) CCWA's Board determines that the preferred bid provides the most cost effective option due to the closer proximity of the preferred Bidder's place of business to the affected Authority facility or facilities. In such a situation, by responding to this bid, the Bidder waives any cause of action against CCWA for frustration of bid or under any similar legal theory; furthermore, the Bidder agrees to pay all costs and expenses, including but not limited to attorney fees, incurred by CCWA in defending against any such claim.

35. It is the policy of the Clayton County Water Authority (CCWA) to promote award of sub-agreements for goods and/or services to qualified minority and women-owned businesses. Bidders are encouraged to solicit minority and women-owned businesses whenever they are potential sources.

36. Bidders are encouraged to utilize the services and assistance of the U.S. Small Business Administration (SBA), and the office of the Department of Commerce

Minority Business Development Agency (MBDA). These agencies can provide assistance in securing the names of qualified minority and women-owned businesses. Additionally, it is encouraged that bidders access certified Small Local Business Enterprise (SLBE) vendors from Clayton County, DeKalb County, and City of Atlanta.

The Georgia Department of Transportation (DOT) has established a list of qualified Disadvantaged Business Enterprises. Information is available online under the tab for "Directories", link for "UCP Directory - Excel" at: http://www.dot.ga.gov/PS/Business/DBE.

The successful Bidder will be asked to provide, along with his Request for Payment each month a list of qualified SLBE and MBE/WBE businesses utilized on this Project.

GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT OF 2006

37. Pursuant to the Georgia Security and Immigration Compliance Act of 2006, the successful Bidder understands and agrees that compliance with the requirements of O.C.G.A.13-10-91 and Georgia Department of Labor Rule 300-10-02 are conditions of this bid and contract document. The Bidder further agrees that such compliance shall be attested by the Bidder and any of his Subcontractors by execution of the appropriate Affidavit and Agreement included after the Agreement Form of these documents.

END OF SECTION

Division 2 Bid Requirements

Section 2: Risk Management Requirements

The Contractors and any potential CCWA approved Subcontractors will provide minimum insurance coverage and limits as per the following:

The Contractor/Subcontractor will file with the Clayton County Water Authority (the "Authority") Certificates of Insurance, certifying the required insurance coverage and stating that each policy has been endorsed to provide a minimum of thirty (30) day advance written notice to the Authority in the event of cancellation, material change, or nonrenewal of policies required under the contract to the Authority. All bonds and insurance coverage must be placed with an insurance company approved by the Authority, licensed, or approved to do business in the State of Georgia, and rated Secure ("A-", "VII" or better) by A.M. Best's Insurance Guide throughout the duration of the contract. The letter denotes the company's financial strength, and the Roman numeral represents the financial size of the carrier. Worker's Compensation self-insurance for individual Contractors must be approved by the Worker's Compensation Board, State of Georgia and/or Self-Insurance pools approved by the Insurance Commissioner, State of Georgia. The insurer shall agree to waive all rights of subrogation against the Authority, its elected or appointed officers, officials, agents, authorized volunteers, and employees for losses paid under the terms of this policy which arise from work performed by the Named Insured for the Authority, but this provision applies regardless of whether or not the Authority has received a waiver of subrogation from the insurer.

As the Risk Management Requirements herein are minimum required insurance coverage and limits, the Authority's Risk Manager may require additional and/or increase in coverage and limits driven by the complexity of the relevant contract.

The Authority requires insurance on an "occurrence" basis whenever possible. Policies written on a "claims made" basis (e.g. cyber, professional liability and pollution liability) require the inclusion of the following provisions:

(a) The retroactive date must be shown on the certificate of insurance (or provided a copy of the declarations page showing it).

(b) Insurance must be maintained for at least two (2) years after completion of the work and/or contract.

(c) If coverage is canceled or non-renewed after the work has been completed and/or the contract has ended, the contractor must purchase the extended reporting period for at least two (2) years.

Division 2 Bid Requirements

Section 2: Risk Management Requirements

APPLICABLE TO ALL CONTRACTS	AS APPLICABLE (Marked with an "X")

Worker's Compensation – Required for all contracts, including any sole proprietor, individual consultants, or small businesses. Worker's Compensation coverage on a statutory basis for the State of Georgia with an Employer's Liability MINIMUM limits of $500,000 bodily injury for each Accident, $500,000 bodily injury for each Disease, and $500,000 bodily injury by Disease for each Employee. Other States: If any work is performed out of state including any remote workers, then those states must be covered as well. Maritime endorsements: If there is an exposure of injury to any contractors or providers to any maritime exposures then coverage shall include the appropriate endorsements such as USL&H (United States Longshore and Harbor Workers Comp Act), Jones Act or other federal statutes. Waiver of subrogation: The insurer agrees to waive all rights of subrogation against the Authority, its elected or appointed officers, officials, agents, authorized volunteers, and employees for losses paid under the terms of this policy which arise from work performed by the Named Insured for the Authority, but this provision applies regardless of whether or not the Authority has received a waiver of subrogation from the insurer. An umbrella policy may increase the employer's liability limits to meet the minimum requirements.

Commercial General Liability – Required for all contracts. Coverage to be provided on "occurrence" not "claims made" basis. The coverage is to include Contractual liability, Per Project Limit of Liability, losses caused by Explosion, Collapse and Underground ("xcu") perils, the "Clayton County Water Authority" is to be added as an Additional Insured and Products and Completed Operations coverage is to be maintained for three (3) years following

❑ **Crime Liability** – Required for all contracts involving any use, care, custody, or control of any cash, money, securities, and/or wire transfers. Any use of crypto currencies must be pre-approved by the Risk Management Department.

❑ **Cyber Liability** – Required for all software, computer hardware installation, data access, data integrations, data usage, cloud storage, SaaS, and or technology related contracts. Coverage shall include the minimum: a) Information Security & Privacy Liability; b) Regulatory Fines and Penalties; c) Payment Card Industry (PCI) if credit cards and/or banking information is obtained or accessed, and d) Ransomware. Since cyber insurance policies are written on a claims-made basis, insurance must be maintained for at least two (2) years after completion of the work and/or contract.

❑ **Professional Liability Insurance (Errors & Omissions)** – Required for all professional service contracts. This shall include any consultants, medical, legal, technical, insurance agents, or other professions that require proper licenses. Since professional insurance policies are written on a claims-made basis, insurance must be maintained for at least two (2) years after completion of the work and/or contract.

❑ **Terrorism Liability** – Required on specific contracts stated by the Risk Management Department including but not limited to: 1) all contracts involving access or use of any water, gas, electric utilities shall require third parties to have TRIA and third-party liability limits of at least $5,000,000; and 2) all special events that are highly visible, politically sensitive, or have more than 1,000 attendees should require at least $1,000,000 of terrorism liability for any event sponsors.

Division 2 Bid Requirements

Section 2: Risk Management Requirements

APPLICABLE TO ALL CONTRACTS

completion of work. The general aggregate and products & completed operations aggregate should be at least twice the minimum required occurrence limit. Policy shall be written on an Insurance Services Office (ISO) industry form CG0001 2010 or newer. Contracts involving any youths or children under 18 should also be required to provide proof of coverage for sexual abuse & molestation coverage that it is either; clearly not excluded on the general liability or purchased as a stand-alone policy. Should the coverage be on a claims-made basis, insurance should remain in force for the life of the contract and up to the date to which the youngest youth/child at the start of the contract turns age 18 plus two years.

Automobile Liability – Required for all contracts except for products or services that are remote only or are delivered by a professional delivery service. ISO policy form CA0001 or its equivalent liability coverage. Coverage shall be included for any owned, leased, hired, or non-owned autos (ISO symbol 1 is preferred). For any contracts involving the transportation of hazardous materials, limited pollution endorsement ISO form CA9948 or its equivalent shall be on the policy. Sole proprietors shall provide the same limits as stated above via a personal auto policy plus an umbrella. Uninsured motorist coverage should be equal to the per occurrence limit except for contracts with other governmental entities.

AS APPLICABLE (Marked with an "X")

❑ **Aviation Liability** – Required for all Drones/UAV (Unmanned Aerial Vehicles), general aviation contracts, and Fixed base operators (FBO). Coverage should include owned, hired, and non-owned aircraft/aviation.

❑ **Liquor Liability** – Required for all third-party services and contracts involving selling, distributing, or serving alcohol. Coverage should be full liquor liability and not "host" liquor if it is being sold.

❑ **Sexual Abuse & Molestation Liability** – Required for all contracts and services involving youths, children, special needs, or senior citizens. Must be maintained for at least two (2) years after completion of the work and/or contract.

❑ **Builder's Risk** – Recommended for most construction projects. The limit of coverage should be equal to the value of the contract or GREATER. Covered perils should be at least fire, wind, theft, vandalism, flood, and earthquake.

❑ **Umbrella Liability** – Recommended for all contracts. The umbrella or Excess Liability Policy may be used to combine with underlying policies to obtain the limits required. The Management of the Authority may elect to require higher limits. The underlying coverage shall be General Liability, Automobile Liability, and Employers Liability (Workers Compensation). Concurrent policy dates with primary liability policies except for Workers Compensation.

MINIMUM LIMITS OF LIABILITY ON NEXT PAGE

Division 2 Bid Requirements

Section 2: Risk Management Requirements

MINIMUM LIMITS OF LIABILITY

INSURANCE	COVERAGE	LIMIT
Worker's Compensation	Bodily Injury by Accident - Each Accident	$500,000
	Bodily Injury by Disease – Each Disease	$500,000
	Bodily Injury by Disease – Each Employee	$500,000
Commercial General Liability	General Aggregate	$2,000,000
	Products & Completed Operations Aggregate	$2,000,000
	Each Occurrence	$1,000,000
	Personal & Advertising Injury	$1,000,000
	Damages to Premises / Fire Legal	$500,000
	Medical Payments	$5,000
Automobile	Combined Single Limit OR	$1,000,000
	Per Person	$500,000
	Per Occurrence	$500,000
	Property Damage	$100,000
	Medical Payments	$1,000
Crime	Employee Dishonesty	$1,000,000
	Funds Transfer Fraud	$1,000,000
	Money & Securities	$100,000
	Computer Crime	$1,000,000
	Social Engineering or its equivalent	$100,000
Cyber Insurance	Each Claim/Wrongful Act	$1,000,000
	Annual Aggregate	$2,000,000
	Business Interruption	$1,000,000
	Data Recovery	$1,000,000
	Cyber Extortion Expenses	$500,000
	Cyber Extortion/Ransom Payments	$50,000
Professional Liability	Each Claim/Wrongful Act	$1,000,000
	General Aggregate	$2,000,000
Terrorism	Access/use of water, electric or gas utilities	$5,000,000
	Special events	$1,000,000
Aviation	Each Occurrence	$5,000,000
	Automobile Liability	$1,000,000
	Pollution Liability (FBOs Only)	$1,000,000
Liquor	Each Occurrence	$1,000,000
	General Aggregate	$2,000,000
Sexual Abuse & Molestation	Each Claim/Wrongful Act	$1,000,000
	General Aggregate	$2,000,000

END OF SECTION

Division 2 Bid Requirements

Section 3: Bid Submittals

3.1 Required bid submittals

Please complete and submit the following forms with your bid:

A. Special Provisions, Division 2, Section 3.3, page 2-3.2.

B. Bid Form, Division 2, Section 4.

C. Bidder Qualification Information, including References and Questionnaire.

D. Georgia Security and Immigration Compliance Act of 2006 form.

E. Contractor Affidavit and Agreement form.

F. Subcontractor Affidavit form.

If a Contractor/Subcontractor will not be performing any services under this contract, the Contractor/company submitting the bid MUST also complete, sign, date, and have both Affidavit forms notarized and make proper notation of "N/A" - Not Applicable.

CCWA cannot consider any bid which does not include completed affidavits. It is not the intent of this notice to provide detailed information or legal advice concerning the Georgia Security & Immigration Compliance Act of 2006, as amended on May 11, 2009. All Bidders intending to do business with CCWA are responsible for independently apprising themselves and complying with the requirements of that law and its effect on CCWA procurements and their participation in those procurements.

G. SLBE Form 1-P.

H. Vendor Information Form.

I. W-9 Form.

J. Addenda (if any issued).

3.2 Required Post Award Submittals:

The successful bidder must provide quarterly reports of volume, reuse and compliance with EPA’s 40 CFR Part 503 Regulations to CCWA.

Division 2 Bid Requirements

Section 3: Bid Submittals

3.3 Special Provisions

No work will be assigned to subcontractors without the prior written approval of the CCWA.

Clayton County Water Authority reserves the right to perform a site visit at any time during the RFB process and the contract period.

All of these facilities operate 24 hours per day seven days per week and all bidders will be given access as granted by the Plant Manager of the facility. Prior notification will be necessary before access is permitted. See Division 1: Section 2 – Project Overview for contact information.

It is the intention of CCWA to be environmental friendly with the disposal of these biosolids, therefore CCWA will offer a 5% bid price discount (for bid price evaluation purposes only) to any or all bidders that provide EPA defined Class “A” Biosolids disposal option (beneficial reuse) as part of their bid submittal. See EPA’s 40 CFR Part 503 – Standards for the use or disposal of sewage sludge. A copy of CCWA previous year’s analytic report submitted to EPA is included as **Attachment A**. The Clayton County Water Authority reserves the right to inspect any disposal site for compliance with Class “A” biosolids standards and any other issues. The Current “Residual Biosolids Management” contract is with ERTH Products Inc. at a price of $79.00 per wet ton. In addition, all CCWA solids are approved for disposal at the Republic Services Pine Ridge Landfill located at 105 Bailey Jester Rd. Griffin, GA, 30224. A copy of CCWA’s approval for landfill is included as **Attachment B**.

The Contractor must provide the necessary insurance and other requirements as per attached “Risk Management Requirements”.

I have read and understand the scope of work, conditions, and requirements. I also understand, and have provided, all documentation required to be included in this Request for Bid. Omission of any part of the requested documentation may result in the bid being deemed unresponsive by the CCWA.

Signed: _____

Name (Printed): _____

Title: _____

Company: _____

Date: _____

END OF SECTION

Division 2 Bid Requirements

Section 4: Bid Form

Bid of _____

(Hereinafter "Bidder"), organized and existing under the laws of the State of _____,

doing business as _____ (insert "a corporation," "a partnership," or "an individual" or such other business entity designation as is applicable).

To the Clayton County Water Authority (hereinafter "Owner").

In compliance with the Request for Bids, Bidder hereby proposes to perform all Work for **Residual Biosolids Management** in strict accordance with the bid documents as enumerated in the Request for Bids, within the time set forth therein, and at the prices stated below.

By submission of this bid, Bidder certifies, and in the case of joint bid each party thereto certifies as to the party's own organization that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other Bidder or with any competitor. Bidder also certifies compliance with the Instructions to Bidders.

In submitting this bid, Bidder certifies Bidder is qualified to do business in the State of Georgia as required by laws, rules, and regulations or, if allowed by statute, covenants to obtain such qualification prior to contract award.

Bidder accepts the terms and conditions of the Documents.

BID:
The undersigned proposes to supply, in all respects, sound and conformable with this bid document the goods for the amounts as shown on this Bid Form.

ADDENDA:
Bidder acknowledges receipt of the following Addenda:

_____

Division 2 Bid Requirements

Section 4: Bid Form

WE BID AS FOLLOWS:

Residual Biosolids Management - Transportation and Disposal per wet ton (for all three CCWA facilities).

$_____ *

**** Per wet ton bid amount must not reflect the 5% bid discount offered by CCWA.***

To obtain the 5% beneficial reuse discount referred to on page 2-4.2 (Special Provisions), your company MUST be compliant with the EPA's 40 CFR Part 503 regulations.

Please check if your company meets this requirement: ❑

If checked, bidders must submit product documentation including testing and reports to confirm compliance.

As per the description, general conditions of this bid. Work to be as directed by individual representing Clayton County Water Authority.

I have read and understand the scope of work, conditions, and requirements. I also understand, and have provided, all documentation required to be included in this Request for Bid. Omission of any part of the requested documentation may result in the bid being deemed unresponsive by the CCWA.

SUBMITTED BY:

_____

(COMPANY NAME OF BIDDER)

If the Bidder is certified as a Small Local Business Enterprise (SLBE) with CCWA, the CCWA SLBE Certification number must be entered below, as well as the County where the business is located in.

CCWA SLBE Certification No. _____ County: _____

Bid Discount % (please check one): ❑ 10% ❑ 7.5% ❑ N/A (Not a SLBE)

Division 2 Bid Requirements

Section 4: Bid Form

Submitted by:

(COMPANY NAME OF BIDDER)

By: (OFFICER NAME)

(SIGNATURE)

(TITLE) (DATE)

(COMPANY ADDRESS)

(CITY, STATE, ZIP CODE)

PHONE NUMBER: _____

EMAIL ADDRESS: _____

LICENSE NUMBER (If applicable): _____

DATE: _____

END OF SECTION

Division 2 Bid Requirements

Section 6: Bidder Qualification Information

COMPANY NAME OF BIDDER: _____

_____

NUMBER OF YEARS IN BUSINESS _____

BUSINESS ADDRESS OF COMPANY: _____

_____

_____

TELEPHONE NUMBER: _____

POINT OF CONTACT NAME: _____

POINT OF CONTACT EMAIL ADDRESS: _____

COMPANY TAX ID NUMBER: _____

COMPANY WEBSITE: _____

ENTITY TYPE:

- ❑ Individual/Sole Proprietor
- ❑ Employee Owned Company
- ❑ Privately Held Corporation/LLC
- ❑ Partnership
- ❑ Publicly Owned Company
- ❑ Attorney
- ❑ Other (specify): _____

NAME OF PRINCIPAL OFFICERS: _____

_____

_____

_____

_____

Division 2 Bid Requirements

Section 6: Bidder Qualification Information

REFERENCES

The Contractor shall include a minimum of 3 references of similar work completed in the last 3 years (2 of which preferably from a municipal/county utility. Excluding CCWA). All references shall include the name of a current contact and phone number.

Company/Government Entity Name: _____
Contact Name: _____
Contact Title: _____
Address: _____
Phone Number: _____

Company/Government Entity Name: _____
Contact Name: _____
Contact Title: _____
Address: _____
Phone Number: _____

Company/Government Entity Name: _____
Contact Name: _____
Contact Title: _____
Address: _____
Phone Number: _____

Division 2 Bid Requirements

Section 6: Bidder Qualification Information

QUESTIONNAIRE:

COMPANY NAME: _____

No. of Years in Business: _____ No. of Employees: _____

No. of Municipal Customers: _____ No. of Commercial Customers: _____

Are Your Employees Contracted? Yes ❑ No ❑

Method of Transportation:_____

Name of Transportation Company:_____

Transportation Company Location:_____

_____

1st Dump Trailer Tag #:_____ Dimension: _____ Load Capacity: _____

2nd Dump Trailer Tag #:_____ Dimension: _____ Load Capacity: _____

3rd Dump Trailer Tag #:_____ Dimension: _____ Load Capacity: _____

4th Dump Trailer Tag #:_____ Dimension: _____ Load Capacity: _____

Other Dump Trailer Tag #:_____ Dimension: _____ Load Capacity: _____

Please check the boxes if requirements will be met:

- ❑ ALL dump trailers must be able to stand on their own with full load.
- ❑ Waterproof trailer cover must be provided for Casey Pelletizing location.
- ❑ Minimum length Dump Trailer for this bid shall be thirty feet (30') long. Roll-off containers will not be allowed for this bid.

Method of Disposal:_____

Name of Disposal Company:_____

Disposal Company Location:_____

_____

Solid Waste Permit Information:_____

_____

_____

END OF SECTION

Division 2 Bid Requirements

Section 7: Contractor Affidavit and Agreement

GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT OF 2006

A. Pursuant to the Georgia Security and Immigration Compliance Act of 2006, the Contractor understands and agrees that compliance with the requirements of O.C.G.A. § 13-10-91 and Georgia Department of Labor Rule 300-10-.02 are conditions of this Agreement. The Contractor further agrees that such compliance shall be attested by the Contractor through execution of the contractor affidavit required by Georgia Department of Labor Rule 300-10-1-.07, or a substantially similar contractor affidavit. The Contractor's fully executed affidavit is attached hereto and is incorporated into this Agreement by reference herein.

B. By initialing in the appropriate line below, the Contractor certifies that the following employee-number category as identified in O.C.G.A. § 13-10-91 is applicable to the Contractor:

1. _____ 500 or more employees.
2. _____ 100 or more employees.
3. _____ Fewer than 100 employees.

C. The Contractor understands and agrees that, in the event the Contractor employs or contracts with any subcontractor or subcontractors in connection with this Agreement, the Contractor shall:

1. Secure from each such subcontractor an indication of the employee-number category as identified in O.C.G.A. § 13-10-91 that is applicable to the subcontractor.

2. Secure from each such subcontractor an attestation of the subcontractor's compliance with O.C.G.A. § 13-10-91 and Georgia Department of Labor Rule 300-10-1-.02 by causing each such subcontractor to execute the subcontractor affidavit required by Georgia Department of Labor Rule 300-10-1-.08, or a substantially similar subcontractor affidavit. The Contractor further understands and agrees that the Contractor shall require the executed subcontractor affidavit to become a part of the agreement between the Contractor and each such subcontractor. The Contractor agrees to maintain records of each subcontractor attestation required hereunder for inspection by the Clayton County Water Authority at any time."

Contractor _____

Authorized Signature: _____

Name: _____

Title: _____

Date: _____

Division 2 Bid Requirements

Section 7: Contractor Affidavit and Agreement

CONTRACTOR AFFIDAVIT AND AGREEMENT

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm, or corporation which is contracting with the Clayton County Water Authority has registered with, is participating in, uses, and will continue to use for the duration of the contract, the federal work authorization program - EEV/Basic Pilot Program operated by the U. S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA), commonly known as E-Verify, in accordance with the applicability provisions established in O.C.G.A. 13-10-91.

The undersigned further agrees that, in connection with the physical performance of services pursuant to this contract with the Clayton County Water Authority, the contractor will only employ or contract with subcontractor(s), who can present a similar affidavit verifying the subcontractor's compliance with O.C.G.A. 13-10-91. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the Clayton County Water Authority within five days of the subcontractor(s) presenting such affidavit(s) to the contractor.

EEV / Basic Pilot Program* User Identification Number Enter the four to seven-digit number	Date of Authorization
Name of Contractor (Printed)	
BY: Authorized Officer or Agent of Contractor (Signature)	Date
Printed Name of Contractor's Authorized Officer or Agent	
Title of Authorized Officer or Agent of Contractor	

SUBSCRIBED AND SWORN BEFORE ME ON THIS _____ DAY OF _____ 20_____.

Notary Public	My Commission Expires

Division 2 Bid Requirements

Section 7: Contractor Affidavit and Agreement

SUBCONTRACTOR AFFIDAVIT AND AGREEMENT

By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with _____ _____ on behalf of the Clayton County Water Authority has registered with, is participating in, uses, and will continue to use for the duration of the contract the federal work authorization program - EEV/Basic Pilot Program operated by the U. S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA), commonly known as E-Verify, in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

The undersigned further agrees that, in connection with the physical performance of services pursuant to this contract with _____ _____ on behalf of the Clayton County Water Authority, the subcontractor will only employ or contract with sub-subcontractor(s), who can present a similar affidavit verifying the sub-subcontractor's compliance with O.C.G.A. 13-10-91. The undersigned further agrees that the Subcontractor will maintain records of such compliance and provide a copy of each such verification to the Contractor within five days of the sub-subcontractor(s) presenting such affidavit(s) to the Sub-contractor.

EEV / Basic Pilot Program* User Identification Number Enter the four to seven-digit number	Date of Authorization
Name of Sub-contractor (Printed)	
Authorized Officer or Agent of Sub-contractor (Signature)	Date
Name of Sub-contractor's Authorized Officer or Agent (Printed)	
Title of Authorized Officer or Agent of Sub-contractor	

SUBSCRIBED AND SWORN BEFORE ME ON THIS _____ DAY OF _____ 20_____.

Notary Public	My Commission Expires

END OF SECTION

Division 2

Section 8 - Small Local Business Enterprises (SLBE) – General Information

8.1 Program Overview

Clayton County Water Authority (CCWA) implemented a Small Local Business Enterprise (SLBE) Program to promote full and open competition in all government procurement and purchasing.

The SLBE program provides an additional race-and gender-neutral tool for the Authority to use in its efforts to ensure that all segments of its local business community have a reasonable and significant opportunity to participate in Authority Solicitations.

SLBEs must perform a commercially useful function, which means performance of provision of real and actual services under the contract or subcontract with CCWA. Factors such as the nature and amount of the work subcontracted; whether the SLBE has the skill and expertise to perform the work for which it has been certified; whether the SLBE actually performs, manages or supervises the work; and whether the SLBE intends to purchase commodities and/or services from a non-SLBE and simply resell them will be considered in determining if the SLBE is performing a commercially useful function.

SLBE in CCWA refers to a locally based small business which meets the following criteria:

- Independently owned and operated business concern whose average annual gross receipts for the previous three years must not exceed: (1) Construction Firms – $18,250,000; (2) Professional Services Firms – $5,500,000; (3) Architectural Firms – $3,750,000; (4) Engineering Firms – $7,500,000, and (5) Goods and Services – less than 250 employees.

- Locally based, meaning located and operating in Clayton County or the ten (10) counties of Cherokee, Cobb, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Henry, Rockdale and Spalding for at least one year.

- **Note:** Complete CCWA SLBE Certification Requirements are listed on the Provisional and General Certification Applications; https://www.ccwa.us. To be considered a CCWA SLBE Certified Firm, the vendor shall complete the Certification Process by the solicitation submission deadline.

To encourage participation in contracting regardless of company size, the Authority provides bidders with Solicitation Incentives to ensure that small businesses maintain a competitive advantage in the Authority's solicitation process. The Authority's three

Division 2

Section 8 - Small Local Business Enterprises (SLBE) – General Information

Solicitation SLBE Incentives; Bid Discounts, Preference Points, and SLBE Goal utilization are determined on a solicitation-by-solicitation basis.

8.2 SLBE Incentive Type

The purpose of this section is to communicate the use of an SLBE Incentive (Bid Discount or Preference Points) for Prime Contractors in the solicitation and provide instructions or requirements of the intended SLBE Incentive.

This solicitation offers the following SLBE Incentive: (Refer to check marked section.)

☑ Bid Discount

Bid discounts are incentives that allow an original bid amount to be discounted for evaluation purposes in determining the lowest responsive, responsible bidder, while the original bid amount will be the basis for contract award.

The calculation of SLBE tiered bid discounts shall be as follows:

- 10% for SLBE's in Clayton County.
- 7.5% for SLBE's within the 10 counties: Cherokee, Cobb, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Henry, Rockdale, and Spalding.

Example: A $100,000 bid with a 7.5% bid discount would be evaluated at $92,500. However, $100,000 would be paid to the successful bidder.

☐ Preference Points

RFP Preference Points are point incentives that are awarded on a basis that includes factors other than the lowest price and wherein responses that are submitted by CCWA SLBE Certified Firms are awarded additional points in the evaluation process in the scoring and ranking of proposals. The awarded points are disbursed for CCWA SLBE Certified Firms proposing as a Prime Contractor and located in Clayton County or the ten (10) counties outlined in Section 8.1. RFP Preference points will be added to the total score for evaluation purposes in determining the highest ranked responsible, responsive proposer.

The calculation of tiered RFP Preference Points in this solicitation for CCWA SLBE Certified Firms will be based on the following criteria:

- 10 Points for CCWA SLBE Firms in Clayton County.
- 7.5 Points for CCWA SLBE Firms within the 10 counties: Cherokee, Cobb, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Henry, Rockdale and Spalding.

Division 2

Section 8 - Small Local Business Enterprises (SLBE) – General Information

Example:

General proposal requirements	(POSSIBLE TOTAL 50 POINTS)
Technical requirements	(POSSIBLE TOTAL 50 POINTS)
SBLE Preference Points	(POSSIBLE TOTAL 10 POINTS)

SLBE Proposal		**NON-SLBE Proposal**	
General Requirements	40	General Requirements	40
Technical Requirements	30	Technical Requirements	30
SLBE Preference Points –Clayton	10	No SLBE Preference	0
TOTAL POINTS	**80**	**TOTAL POINTS**	**70**

8.3 SLBE Conclusion

A bidder does not have to be a CCWA SLBE Certified Firm to participate in a solicitation where Bid Discounts or Preference Points Incentives are offered.

The use of Certified CCWA SLBE Firms as subcontractors will not establish eligibility to receive Bid Discounts or Preference Points. In the event of a tie between a CCWA SLBE Certified Firm and a non-CCWA SLBE Certified firm, the CCWA SLBE Certified Firm will be recommended for the contract.

By signing the solicitation, the bidder is certifying that he/she has complied with the requirements of this program. Contact the Small Business Procurement Coordinator at ccwa_slbe_program@ccwa.us for more information on becoming certified.

8.4 Solicitation SLBE Required Form(s)

For CCWA SLBE Certified Firms claiming a Bid Discount or Preference Points, a copy of their valid CCWA SLBE Certification Letter shall be provided with their solicitation response.

END OF SECTION

Division 3 Contract Forms

Section 4: Non-Collusion Certificate

STATE OF_____, COUNTY OF _____

Personally appeared before the undersigned officer duly authorized by law to administer oaths

_____

_____

_____

who, after being first duly sworn, depose and say that they are all the officers, agents, persons or employees who have acted for or represented _____

_____ in procuring the Contract with the Clayton County Water Authority on the following Project: **Residual Biosolids Management,** and that said _____

_____

has not by (himself, themselves) or through any persons, officers, agents or employees prevented or attempted to prevent by any means whatsoever competition in such bidding; or by any means whatsoever prevented or endeavored to prevent anyone from making a proposal therefore, or induced or attempted to induce another to withdraw a bid for said work.

ATTEST: By:

By:_____ By: _____

Title: _____ Title: _____

Sworn to and subscribed before me this _____ day of _____ 20___.

Notary Public:_____ My Commission expires:_____

END OF SECTION

Division 3 Contract Forms

Section 5: Certification of Absence of Conflict of Interest.

CERTIFICATION OF ABSENCE OF CONFLICT OF INTEREST

(O.C.G.A. § 36-80-28)

The undersigned Contractor, who is entering into a contract or arrangement with the Clayton County Water Authority (CCWA), by signing below acknowledges and certifies to follow the requirements below:

(1) Contractor shall avoid any appearance of impropriety and shall follow all of CCWA's policies and procedures related to the project.

(2) Contractor discloses below any material transaction or relationship currently known to Contractor that reasonably could be expected to give rise to a conflict of interest, including, but not limited to, that of the Contractor, Contractor's employees, agents or subsidiaries. (Include past, present, or known prospective engagements, involvement in litigation or other dispute, client relationships, or other business or financial interest):

_____
_____
_____
_____
_____

(3) Contractor shall immediately disclose any material transaction or relationship subsequently discovered during the pendency of the contract or arrangement.

(4) Contractor acknowledges that any violation or threatened violation of the agreement may cause irreparable injury to CCWA entitling CCWA to seek injunctive relief in addition to all other legal remedies.

_____ _____
NAME OF CONTRACTOR Name of Contractor's Authorized Official

_____
Signature of Contractor's Authorized Official

_____
DATE

END OF SECTION

Division 4 General Requirements

Section 1: Specifications

4.1 DESCRIPTION OF WORK

The Clayton County Water Authority will dewater the wastewater sludge at its Northeast, Casey, and Shoal Creek Water Reclamation Facilities to approximately 19-35% solids. Solids from all three facilities will require further processing to be land applied. The successfully bidder will remove and dispose the dewatered solids from all plants via dump trailers with a capacity not to exceed 30 tons per load. Shoal Creek and Northeast WRFs have two (2) loading bays, while Casey Pelletizing site has only one (1) loading conveyor. All three sites have truck scales. The trucks will transport the wastewater residuals to a mutually agreed upon disposal site.

Trailers shall be clean before being returned to Clayton County Water Authority sites. Trailers must be left on site for loading by a screw conveyor system.

The contractor shall agree to provide any necessary labor and equipment for removal and transporting. This includes furnishing dump trailers for each CCWA facility when requested by the Department Director and/or Plant Manager. The estimated annual quantity is 5000 - 6000 wet tons. The frequency of transporting from the Northeast WRF is estimated to be up to one (1) truckload per day for five (5) days per week. An increased frequency to two (2) truckloads per day and/or six (6) days per week may be required if deemed necessary by the Department Director or Plant Manager. The frequency of transporting from Shoal Creek WRF is estimated to be up to one (1) truckload per day for four (4) days per week. An increase in frequency to one (1) truckload per day for five (5) days per week may be required if deemed necessary by the Department Director or Plant Manager. The frequency of transporting from Casey WRF is estimated to be one (1) truckload per day for up to seven (7) days per week. An increase in frequency to (2) truckload per day for up to (7) days per week may be required if deemed necessary by the Department Director or Plant Manager. Casey WRF currently operates a Pelletizing Facility and will not require services unless deemed necessary by the Department Director or Plant Manager. The Clayton County Water Authority reserves the right to purchase more or less based on actual need.

4.2 SCOPE OF WORK

The scope of work shall consist the transporting and disposing of dewatered sludge produced at the Clayton County Water Authority’s Northeast WRF at 6900 Old Macon Highway, Rex, Georgia, 30281, transporting and disposing of dewatered sludge produced at the Clayton County Water Authority’s Casey WRF

Division 4 General Requirements

Section 1: Specifications

at 8890 Roberts Road, Jonesboro, Georgia, 30238 and transporting and disposing of dewatered sludge produced at the Clayton County Water Authority's Shoal Creek WRF located at 301 Hampton Road, Hampton, Georgia, 30228.

The contractor shall not make any changes from these specifications without written permission from the Director of Water Reclamation or their authorized designated representative.

The work shall be under the direct control and supervision of the Water Reclamation Department of the Clayton County Water Authority with regard to quantities, work quality, method of operation, scheduling and furnishings of stated materials or services.

Change orders beyond the original term shall be mutually agreed and based upon written authorization from Clayton County Water Authority.

The contractor shall correct defects in any work performed before the completed project will be eligible for payment. Defects shall include, but are not limited to: lack of signed manifests, improper disposal methods or non-approved disposal site. Payment terms shall be net 30 days.

The contractor's work shall fully conform to any applicable O.S.H.A. guidelines and the Clayton County Water Authority Safety Program. The safety of the traveling public shall be of paramount importance during transportation.

The Director of Water Reclamation of the Clayton County Water Authority on an annual basis will offer this work to the successful Bidder. If the Contractor awarded the contract rejects the work or cannot respond to the scheduling requirements (to be identified by the CCWA Director of Water Reclamation at the time of the offer) of an offered project, the Water Authority will then offer the work to the next qualified lowest bidder. The contractor shall understand that the offered work is scheduled and the work must be performed at the scheduled time. Failure to respond to work requests at the appropriate scheduled time may result in the termination of the contract with the contractor.

Work shall be authorized by the standard Clayton County Water Authority purchase order system, referencing the estimated quantities, prices per transported load and manifest number.

END OF SECTION

ATTACHMENT A

Laboratory Report

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

July 24, 2023

Jennifer Brandon
Clayton Co Water Authority
688 Flint River Road
Jonesboro, GA 30238

RE: Project: Northeast Sludge Cake
Pace Project No.: 92676246

Dear Jennifer Brandon:

Enclosed are the analytical results for sample(s) received by the laboratory on July 07, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Tony Somerville, Clayton Co Water Authority

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Northeast Sludge Cake
Pace Project No.: 92676246

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 88-00679
Illinois Certification #: 2000302023-5
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212023-1
Oklahoma Certification #: 2022-057
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-22-16
Utah Certification #: KS000212022-12
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Northeast Sludge Cake
Pace Project No.: 92676246

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Northeast Sludge Cake
Pace Project No.: 92676246

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92676246001	**Northeast Sludge Cake**	Solid	07/07/23 08:47	07/07/23 14:34

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Northeast Sludge Cake
Pace Project No.: 92676246

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92676246001	**Northeast Sludge Cake**	EPA 8151A	JMB	3	PAN
		EPA 8081B	SEM	9	PASI-C
		EPA 6010D	DRB	13	PASI-GA
		EPA 6010D	DRB	7	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 7471B	MT1	1	PASI-GA
		EPA 9045D	TJS	1	PASI-GA
		EPA 8270E	PKS	18	PASI-C
		EPA 8260D	SAS	14	PASI-C
		SW-846	KDF	1	PASI-C
		EPA 9071B	RKA	1	PASI-K
		EPA 9095B	YEG	1	PASI-A
		TKN+NO3+NO2 Calculation	MDW	1	PASI-A
		EPA 350.1 Rev 2.0 1993 Mod.	ARJ	1	PASI-A
		EPA 351.2 Rev 2.0 1993	MFO	1	PASI-A
		EPA 353.2 Rev 2.0 1993	MFO	3	PASI-A

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA
PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Northeast Sludge Cake
Pace Project No.: 92676246

Sample: Northeast Sludge Cake **Lab ID: 92676246001** Collected: 07/07/23 08:47 Received: 07/07/23 14:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chlorinated Herb. (GC) 8151A	Analytical Method: EPA 8151A Preparation Method: 8151A Leachate Method/Date: 1311; 07/13/23 14:33 Initial pH: 8; Final pH: 6.06 Pace National - Mt. Juliet							
2,4,5-TP (Silvex)	ND	mg/L	0.00200	1	07/18/23 09:39	07/18/23 20:40	93-72-1	
2,4-D	ND	mg/L	0.00200	1	07/18/23 09:39	07/18/23 20:40	94-75-7	
Surrogates								
2,4-DCAA (S)	85.2	%	14.0-158	1	07/18/23 09:39	07/18/23 20:40	19719-28-9	
8081 TCLP Pesticides RVE	Analytical Method: EPA 8081B Preparation Method: EPA 3510C Leachate Method/Date: EPA 1311; 07/11/23 15:17 Initial pH: 7.98; Final pH: 5 Pace Analytical Services - Charlotte							
gamma-BHC (Lindane)	ND	ug/L	0.50	1	07/12/23 17:49	07/14/23 15:26	58-89-9	
Chlordane (Technical)	ND	ug/L	3.0	1	07/12/23 17:49	07/14/23 15:26	57-74-9	
Endrin	ND	ug/L	0.50	1	07/12/23 17:49	07/14/23 15:26	72-20-8	
Heptachlor	ND	ug/L	0.50	1	07/12/23 17:49	07/14/23 15:26	76-44-8	
Heptachlor epoxide	ND	ug/L	0.50	1	07/12/23 17:49	07/14/23 15:26	1024-57-3	
Methoxychlor	ND	ug/L	1000	1	07/12/23 17:49	07/14/23 15:26	72-43-5	
Toxaphene	ND	ug/L	3.0	1	07/12/23 17:49	07/14/23 15:26	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	78	%	19-200	1	07/12/23 17:49	07/14/23 15:26	2051-24-3	
Tetrachloro-m-xylene (S)	73	%	10-137	1	07/12/23 17:49	07/14/23 15:26	877-09-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/kg	4.6	1	07/08/23 10:42	07/10/23 22:59	7440-38-2	
Cadmium	ND	mg/kg	1.5	1	07/08/23 10:42	07/10/23 22:59	7440-43-9	
Calcium	**9440**	mg/kg	153	1	07/08/23 10:42	07/12/23 14:07	7440-70-2	
Chromium	**42.5**	mg/kg	1.5	1	07/08/23 10:42	07/10/23 22:59	7440-47-3	
Copper	**349**	mg/kg	6.1	1	07/08/23 10:42	07/10/23 22:59	7440-50-8	
Iron	**17100**	mg/kg	6.1	1	07/08/23 10:42	07/10/23 22:59	7439-89-6	
Lead	**24.8**	mg/kg	3.8	1	07/08/23 10:42	07/10/23 22:59	7439-92-1	
Molybdenum	**7.4**	mg/kg	6.1	1	07/08/23 10:42	07/10/23 22:59	7439-98-7	
Nickel	**17.2**	mg/kg	3.1	1	07/08/23 10:42	07/10/23 22:59	7440-02-0	
Phosphorus	**41300**	mg/kg	306	10	07/08/23 10:42	07/12/23 14:12	7723-14-0	
Potassium	**5150**	mg/kg	76.5	1	07/08/23 10:42	07/10/23 22:59	7440-09-7	
Selenium	ND	mg/kg	7.7	1	07/08/23 10:42	07/10/23 22:59	7782-49-2	
Zinc	**596**	mg/kg	4.6	1	07/08/23 10:42	07/10/23 22:59	7440-66-6	
6010D ATL ICP, TCLP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 07/10/23 15:00 Initial pH: 9.05; Final pH: 5.53 Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.30	1	07/11/23 12:00	07/11/23 19:01	7440-38-2	
Barium	ND	mg/L	0.50	1	07/11/23 12:00	07/11/23 19:01	7440-39-3	
Cadmium	ND	mg/L	0.10	1	07/11/23 12:00	07/11/23 19:01	7440-43-9	
Chromium	ND	mg/L	0.10	1	07/11/23 12:00	07/11/23 19:01	7440-47-3	
Lead	ND	mg/L	0.25	1	07/11/23 12:00	07/11/23 19:01	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Northeast Sludge Cake
Pace Project No.: 92676246

Sample: Northeast Sludge Cake **Lab ID: 92676246001** Collected: 07/07/23 08:47 Received: 07/07/23 14:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP, TCLP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 07/10/23 15:00 Initial pH: 9.05; Final pH: 5.53 Pace Analytical Services - Peachtree Corners, GA							
Selenium	ND	mg/L	0.40	1	07/11/23 12:00	07/11/23 19:01	7782-49-2	
Silver	ND	mg/L	0.10	1	07/11/23 12:00	07/11/23 19:01	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 07/10/23 15:00 Initial pH: 9.05; Final pH: 5.53 Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.0050	1	07/13/23 10:30	07/13/23 14:25	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Peachtree Corners, GA							
Mercury	**0.38**	mg/kg	0.37	1	07/11/23 16:00	07/12/23 13:40	7439-97-6	
9045 pH Soil	Analytical Method: EPA 9045D Pace Analytical Services - Peachtree Corners, GA							
pH at 25 Degrees C	**8.2**	Std. Units	0.10	1		07/10/23 13:13		H3
8270E TCLP RVE	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Leachate Method/Date: EPA 1311; 07/11/23 15:17 Initial pH: 7.98; Final pH: 5 Pace Analytical Services - Charlotte							
1,4-Dichlorobenzene	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	87-68-3	
Hexachlorobenzene	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	118-74-1	
Hexachloroethane	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	15831-10-4	
Nitrobenzene	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	98-95-3	
Pentachlorophenol	ND	ug/L	100	1	07/18/23 14:21	07/18/23 23:35	87-86-5	
Pyridine	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	110-86-1	R1
2,4,5-Trichlorophenol	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	50.0	1	07/18/23 14:21	07/18/23 23:35	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	90	%	10-138	1	07/18/23 14:21	07/18/23 23:35	4165-60-0	
2-Fluorobiphenyl (S)	78	%	10-130	1	07/18/23 14:21	07/18/23 23:35	321-60-8	
Terphenyl-d14 (S)	118	%	19-191	1	07/18/23 14:21	07/18/23 23:35	1718-51-0	
Phenol-d6 (S)	53	%	10-130	1	07/18/23 14:21	07/18/23 23:35	13127-88-3	
2-Fluorophenol (S)	66	%	10-130	1	07/18/23 14:21	07/18/23 23:35	367-12-4	
2,4,6-Tribromophenol (S)	141	%	10-164	1	07/18/23 14:21	07/18/23 23:35	118-79-6	
8260D MSV TCLP	Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 07/17/23 13:52 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	100	20		07/19/23 03:14	71-43-2	
2-Butanone (MEK)	**2340**	ug/L	200	20		07/19/23 03:14	78-93-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Northeast Sludge Cake
Pace Project No.: 92676246

Sample: Northeast Sludge Cake **Lab ID: 92676246001** Collected: 07/07/23 08:47 Received: 07/07/23 14:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV TCLP	Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 07/17/23 13:52							
	Pace Analytical Services - Charlotte							
Carbon tetrachloride	ND	ug/L	100	20		07/19/23 03:14	56-23-5	
Chlorobenzene	ND	ug/L	100	20		07/19/23 03:14	108-90-7	
Chloroform	ND	ug/L	100	20		07/19/23 03:14	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	100	20		07/19/23 03:14	106-46-7	
1,2-Dichloroethane	ND	ug/L	100	20		07/19/23 03:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	20		07/19/23 03:14	75-35-4	
Tetrachloroethene	ND	ug/L	100	20		07/19/23 03:14	127-18-4	
Trichloroethene	ND	ug/L	100	20		07/19/23 03:14	79-01-6	
Vinyl chloride	ND	ug/L	100	20		07/19/23 03:14	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	20		07/19/23 03:14	17060-07-0	
Toluene-d8 (S)	103	%	70-130	20		07/19/23 03:14	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	20		07/19/23 03:14	460-00-4	
Percent Moisture	Analytical Method: SW-846							
	Pace Analytical Services - Charlotte							
Percent Moisture	**83.7**	%	0.10	1		07/11/23 13:17		N2
9071 HEM TPH in Soil	Analytical Method: EPA 9071B Preparation Method: EPA 9071B							
	Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	5910	1	07/20/23 10:20	07/20/23 15:04		
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095B							
	Pace Analytical Services - Asheville							
Free Liquids	**PASS**		1.0	1		07/21/23 11:48		T3
Total Nitrogen Calculation	Analytical Method: TKN+NO3+NO2 Calculation							
	Pace Analytical Services - Asheville							
Nitrogen	**84900**	mg/kg	40.0	1		07/18/23 16:03	7727-37-9	
350.1 Ammonia	Analytical Method: EPA 350.1 Rev 2.0 1993 Mod. Preparation Method: EPA 350.1 Rev 2.0 1993 Mod.							
	Pace Analytical Services - Asheville							
Nitrogen, Ammonia	**26100**	mg/kg	521	10	07/14/23 16:07	07/15/23 12:41	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Rev 2.0 1993 Preparation Method: EPA 351.2 Rev 2.0 1993							
	Pace Analytical Services - Asheville							
Nitrogen, Kjeldahl, Total	**84900**	mg/kg	2460	10	07/17/23 18:10	07/18/23 04:11	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Rev 2.0 1993 Preparation Method: EPA 353.2 Rev 2.0 1993							
	Pace Analytical Services - Asheville							
Nitrogen, NO2 plus NO3	ND	mg/kg	24.4	1	07/11/23 22:22	07/12/23 00:21		H1,H2
Nitrogen, Nitrate	ND	mg/kg	24.4	1	07/11/23 22:22	07/12/23 00:21	14797-55-8	
Nitrogen, Nitrite	ND	mg/kg	24.4	1	07/11/23 22:22	07/12/23 00:21	14797-65-0	H1,H2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 2095963
QC Batch Method: 8151A
Analysis Method: EPA 8151A
Analysis Description: Chlorinated Herb. (GC) 8151A
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92676246001

METHOD BLANK: R3950121-1 Matrix: Solid
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.00200	07/18/23 19:45	
2,4-D	mg/L	ND	0.00200	07/18/23 19:45	
2,4-DCAA (S)	%	101	14.0-158	07/18/23 19:45	

LABORATORY CONTROL SAMPLE: R3950121-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	0.0500	0.0506	101	50.0-125	E
2,4-D	mg/L	0.0500	0.0493	98.6	50.0-120	
2,4-DCAA (S)	%			99.2	14.0-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3950121-3 R3950121-4

Parameter	Units	L1633747-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	mg/L	ND	0.0500	0.0500	0.0529	0.0555	106	111	50.0-125	4.80	20	E
2,4-D	mg/L	ND	0.0500	0.0500	0.0631	0.0541	126	108	50.0-120	15.4	20	E,MH
2,4-DCAA (S)	%						120	109	14.0-158			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 785522
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92676246001

METHOD BLANK: 4073183 Matrix: Solid
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.7	07/10/23 21:04	
Cadmium	mg/kg	ND	0.91	07/10/23 21:04	
Calcium	mg/kg	ND	90.9	07/12/23 13:28	
Chromium	mg/kg	ND	0.91	07/10/23 21:04	
Copper	mg/kg	ND	3.6	07/12/23 13:28	
Iron	mg/kg	ND	3.6	07/10/23 21:04	
Lead	mg/kg	ND	2.3	07/10/23 21:04	
Molybdenum	mg/kg	ND	3.6	07/10/23 21:04	
Nickel	mg/kg	ND	1.8	07/10/23 21:04	
Phosphorus	mg/kg	ND	18.2	07/10/23 21:04	
Potassium	mg/kg	ND	45.5	07/12/23 13:28	
Selenium	mg/kg	ND	4.5	07/10/23 21:04	
Zinc	mg/kg	ND	2.7	07/10/23 21:04	

LABORATORY CONTROL SAMPLE: 4073184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	98	94.7	97	80-120	
Cadmium	mg/kg	98	101	103	80-120	
Calcium	mg/kg	98	95J	97	80-120	
Chromium	mg/kg	98	99.2	101	80-120	
Copper	mg/kg	98	103	105	80-120	
Iron	mg/kg	98	116	118	80-120	
Lead	mg/kg	98	97.8	100	80-120	
Molybdenum	mg/kg	98	101	103	80-120	
Nickel	mg/kg	98	94.9	97	80-120	
Phosphorus	mg/kg	98	101	103	80-120	
Potassium	mg/kg	98	100	102	80-120	
Selenium	mg/kg	98	99.2	101	80-120	
Zinc	mg/kg	98	88.8	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4073185 4073186

Parameter	Units	92675320002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.2	100	98.2	98.3	97.0	95	96	75-125	1	20	
Cadmium	mg/kg	ND	100	98.2	103	103	103	104	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4073185 4073186

Parameter	Units	92675320002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/kg	ND	100	98.2	148	164	82	100	75-125	11	20	
Chromium	mg/kg	41.8	100	98.2	136	131	94	91	75-125	3	20	
Copper	mg/kg	11.3	100	98.2	117	115	106	106	75-125	1	20	
Iron	mg/kg	16100	100	98.2	13900	12600	-2180	-3530	75-125	10	20	M1
Lead	mg/kg	6.8	100	98.2	108	107	101	102	75-125	1	20	
Molybdenum	mg/kg	ND	100	98.2	102	101	98	100	75-125	0	20	
Nickel	mg/kg	3.1	100	98.2	101	99.1	98	98	75-125	2	20	
Phosphorus	mg/kg	153	100	98.2	250	243	98	92	75-125	3	20	
Potassium	mg/kg	ND	100	98.2	132	149	101	120	75-125	12	20	
Selenium	mg/kg	ND	100	98.2	88.1	90.9	88	93	75-125	3	20	
Zinc	mg/kg	3.2	100	98.2	96.3	94.5	93	93	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 785967
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL TCLP
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92676246001

METHOD BLANK: 4073716 Matrix: Water
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.30	07/11/23 17:58	
Barium	mg/L	ND	0.50	07/11/23 17:58	
Cadmium	mg/L	ND	0.10	07/11/23 17:58	
Chromium	mg/L	ND	0.10	07/11/23 17:58	
Lead	mg/L	ND	0.25	07/11/23 17:58	
Selenium	mg/L	ND	0.40	07/11/23 17:58	
Silver	mg/L	ND	0.10	07/11/23 17:58	

LABORATORY CONTROL SAMPLE: 4074895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	10	10.0	100	80-120	
Barium	mg/L	10	9.8	98	80-120	
Cadmium	mg/L	10	9.9	99	80-120	
Chromium	mg/L	10	9.4	94	80-120	
Lead	mg/L	10	9.5	95	80-120	
Selenium	mg/L	10	9.8	98	80-120	
Silver	mg/L	10	9.2	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4074896 4074897

Parameter	Units	92676092001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	10	10	10.1	10.1	101	101	75-125	0	20	
Barium	mg/L	0.77	10	10	10.6	10.6	98	98	75-125	0	20	
Cadmium	mg/L	ND	10	10	9.9	9.8	99	98	75-125	1	20	
Chromium	mg/L	ND	10	10	9.5	9.4	95	94	75-125	1	20	
Lead	mg/L	ND	10	10	9.5	9.4	95	94	75-125	1	20	
Selenium	mg/L	ND	10	10	9.8	9.9	98	99	75-125	2	20	
Silver	mg/L	ND	10	10	9.3	9.4	93	94	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 786472
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury TCLP, ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92676246001

METHOD BLANK: 4073716 Matrix: Water
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0050	07/13/23 13:56	

LABORATORY CONTROL SAMPLE: 4077519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.017	0.016	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4077520 4077521

Parameter	Units	92676146001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.017	0.017	0.015	0.014	89	87	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 785930
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92676246001

METHOD BLANK: 4074606 Matrix: Solid
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.24	07/12/23 12:54	

LABORATORY CONTROL SAMPLE: 4074607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.33	0.33	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4074608 4074609

Parameter	Units	92676103004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.4	0.4	0.39	0.39	90	94	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 785708
QC Batch Method: EPA 9045D
Analysis Method: EPA 9045D
Analysis Description: 9045 pH
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92676246001

SAMPLE DUPLICATE: 4073681

Parameter	Units	92676246001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	10	H3

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 787523
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV TCLP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92676246001

METHOD BLANK: 4082712 Matrix: Water
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	07/18/23 23:24	
1,2-Dichloroethane	ug/L	ND	5.0	07/18/23 23:24	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/18/23 23:24	
2-Butanone (MEK)	ug/L	ND	10.0	07/18/23 23:24	
Benzene	ug/L	ND	5.0	07/18/23 23:24	
Carbon tetrachloride	ug/L	ND	5.0	07/18/23 23:24	
Chlorobenzene	ug/L	ND	5.0	07/18/23 23:24	
Chloroform	ug/L	ND	5.0	07/18/23 23:24	
Tetrachloroethene	ug/L	ND	5.0	07/18/23 23:24	
Trichloroethene	ug/L	ND	5.0	07/18/23 23:24	
Vinyl chloride	ug/L	ND	5.0	07/18/23 23:24	
1,2-Dichloroethane-d4 (S)	%	116	70-130	07/18/23 23:24	
4-Bromofluorobenzene (S)	%	95	70-130	07/18/23 23:24	
Toluene-d8 (S)	%	104	70-130	07/18/23 23:24	

LABORATORY CONTROL SAMPLE: 4082711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	20.1	100	70-130	
1,4-Dichlorobenzene	ug/L	20	19.1	96	70-130	
2-Butanone (MEK)	ug/L	40	41.1	103	70-134	
Benzene	ug/L	20	19.8	99	70-130	
Carbon tetrachloride	ug/L	20	19.7	99	70-130	
Chlorobenzene	ug/L	20	19.8	99	70-130	
Chloroform	ug/L	20	20.0	100	70-130	
Tetrachloroethene	ug/L	20	18.6	93	70-130	
Trichloroethene	ug/L	20	19.2	96	70-130	
Vinyl chloride	ug/L	20	16.2	81	62-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4082713 4082714

Parameter	Units	92677416001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	20	20	ND	ND	108	101	70-156		30	
1,2-Dichloroethane	ug/L	ND	20	20	ND	ND	104	100	69-143		30	
1,4-Dichlorobenzene	ug/L	ND	20	20	ND	ND	101	95	70-142		30	
2-Butanone (MEK)	ug/L	ND	40	40	ND	ND	123	123	60-157		30	
Benzene	ug/L	ND	20	20	ND	ND	101	94	70-142		30	
Carbon tetrachloride	ug/L	ND	20	20	ND	ND	109	83	70-148		30	
Chlorobenzene	ug/L	ND	20	20	ND	ND	99	100	70-141		30	
Chloroform	ug/L	ND	20	20	ND	ND	99	101	70-148		30	
Tetrachloroethene	ug/L	ND	20	20	ND	ND	80	76	70-145		30	
Trichloroethene	ug/L	ND	20	20	ND	ND	79	77	62-146		30	
Vinyl chloride	ug/L	ND	20	20	ND	ND	86	78	61-163		30	
1,2-Dichloroethane-d4 (S)	%						105	106	70-130			
4-Bromofluorobenzene (S)	%						95	96	70-130			
Toluene-d8 (S)	%						102	101	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 786360
QC Batch Method: EPA 3510C
Analysis Method: EPA 8081B
Analysis Description: 8081 TCLP Pesticides RV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92676246001

METHOD BLANK: 4075209 Matrix: Water
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	ug/L	ND	3.0	07/14/23 16:42	
Endrin	ug/L	ND	0.50	07/14/23 16:42	
gamma-BHC (Lindane)	ug/L	ND	0.50	07/14/23 16:42	
Heptachlor	ug/L	ND	0.50	07/14/23 16:42	
Heptachlor epoxide	ug/L	ND	0.50	07/14/23 16:42	
Methoxychlor	ug/L	ND	1000	07/14/23 16:42	
Toxaphene	ug/L	ND	3.0	07/14/23 16:42	
Decachlorobiphenyl (S)	%	28	19-200	07/14/23 16:42	
Tetrachloro-m-xylene (S)	%	65	10-137	07/14/23 16:42	

LABORATORY CONTROL SAMPLE: 4077037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin	ug/L	1.2	1.1	92	33-190	
gamma-BHC (Lindane)	ug/L	1.2	0.92	74	32-148	
Heptachlor	ug/L	1.2	0.86	69	32-149	
Heptachlor epoxide	ug/L	1.2	0.93	74	37-149	
Methoxychlor	ug/L	3.8	2.9J	77	35-171	
Decachlorobiphenyl (S)	%			33	19-200	
Tetrachloro-m-xylene (S)	%			52	10-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4077038 4077039

Parameter	Units	92676384001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Endrin	ug/L	ND	1.2	1.2	1.7	1.9	139	154	10-200	10	30	
gamma-BHC (Lindane)	ug/L	ND	1.2	1.2	1.3	1.5	106	122	13-163	14	30	
Heptachlor	ug/L	ND	1.2	1.2	1.4	1.5	112	122	10-172	9	30	
Heptachlor epoxide	ug/L	ND	1.2	1.2	1.4	1.6	114	127	10-168	10	30	
Methoxychlor	ug/L	ND	3.8	3.8	4.6J	5J	122	132	13-183		30	
Decachlorobiphenyl (S)	%						106	101	19-200			
Tetrachloro-m-xylene (S)	%						93	102	10-137			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 787433
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E
Analysis Description: 8270E TCLP MSSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92676246001

METHOD BLANK: 4082083 Matrix: Water
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	50.0	07/18/23 19:17	
2,4,5-Trichlorophenol	ug/L	ND	50.0	07/18/23 19:17	
2,4,6-Trichlorophenol	ug/L	ND	50.0	07/18/23 19:17	
2,4-Dinitrotoluene	ug/L	ND	50.0	07/18/23 19:17	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	07/18/23 19:17	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	07/18/23 19:17	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	07/18/23 19:17	
Hexachlorobenzene	ug/L	ND	50.0	07/18/23 19:17	
Hexachloroethane	ug/L	ND	50.0	07/18/23 19:17	
Nitrobenzene	ug/L	ND	50.0	07/18/23 19:17	
Pentachlorophenol	ug/L	ND	100	07/18/23 19:17	
Pyridine	ug/L	ND	50.0	07/18/23 19:17	
2,4,6-Tribromophenol (S)	%	137	10-164	07/18/23 19:17	
2-Fluorobiphenyl (S)	%	101	10-130	07/18/23 19:17	
2-Fluorophenol (S)	%	79	10-130	07/18/23 19:17	
Nitrobenzene-d5 (S)	%	112	10-138	07/18/23 19:17	
Phenol-d6 (S)	%	59	10-130	07/18/23 19:17	
Terphenyl-d14 (S)	%	123	19-191	07/18/23 19:17	

LABORATORY CONTROL SAMPLE: 4082084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	356	71	10-130	
2,4,5-Trichlorophenol	ug/L	500	603	121	38-147	
2,4,6-Trichlorophenol	ug/L	500	600	120	34-142	
2,4-Dinitrotoluene	ug/L	500	602	120	44-154	
2-Methylphenol(o-Cresol)	ug/L	500	619	124	31-130	
3&4-Methylphenol(m&p Cresol)	ug/L	500	560	112	30-130	
Hexachloro-1,3-butadiene	ug/L	500	318	64	10-130	
Hexachlorobenzene	ug/L	500	589	118	44-138	
Hexachloroethane	ug/L	500	371	74	10-130	
Nitrobenzene	ug/L	500	579	116	33-133	
Pentachlorophenol	ug/L	1000	1150	115	21-163	
Pyridine	ug/L	500	146	29	16-130	v1
2,4,6-Tribromophenol (S)	%			159	10-164	
2-Fluorobiphenyl (S)	%			113	10-130	
2-Fluorophenol (S)	%			95	10-130	
Nitrobenzene-d5 (S)	%			135	10-138	
Phenol-d6 (S)	%			80	10-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

LABORATORY CONTROL SAMPLE: 4082084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			135	19-191	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4082085 4082086

Parameter	Units	92676246001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	500	500	335	275	67	55	10-130	20	30	
2,4,5-Trichlorophenol	ug/L	ND	500	500	541	576	108	115	10-170	6	30	
2,4,6-Trichlorophenol	ug/L	ND	500	500	511	576	102	115	10-166	12	30	
2,4-Dinitrotoluene	ug/L	ND	500	500	601	631	120	126	30-164	5	30	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	551	535	110	107	19-132	3	30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	500	500	508	486	102	97	13-136	4	30	
Hexachloro-1,3-butadiene	ug/L	ND	500	500	275	255	55	51	10-130	8	30	
Hexachlorobenzene	ug/L	ND	500	500	569	570	114	114	32-145	0	30	
Hexachloroethane	ug/L	ND	500	500	326	263	65	53	10-130	21	30	
Nitrobenzene	ug/L	ND	500	500	488	516	98	103	19-145	6	30	
Pentachlorophenol	ug/L	ND	1000	1000	1130	1240	113	124	10-188	10	30	
Pyridine	ug/L	ND	500	500	431	232	86	46	10-130	60	30	R1
2,4,6-Tribromophenol (S)	%						143	160	10-164			
2-Fluorobiphenyl (S)	%						106	108	10-130			
2-Fluorophenol (S)	%						79	87	10-130			
Nitrobenzene-d5 (S)	%						111	122	10-138			
Phenol-d6 (S)	%						70	73	10-130			
Terphenyl-d14 (S)	%						124	130	19-191			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 785989
QC Batch Method: SW-846
Analysis Method: SW-846
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92676246001

SAMPLE DUPLICATE: 4075105

Parameter	Units	30602793001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.5	29.4	0	25	N2

SAMPLE DUPLICATE: 4075106

Parameter	Units	92676260001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	98.4	98.4	0	25	N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 857226
QC Batch Method: EPA 9071B
Analysis Method: EPA 9071B
Analysis Description: 9071B HEM-TPH Gravimetric
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 92676246001

METHOD BLANK: 3394511 Matrix: Solid
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	250	07/20/23 15:03	

LABORATORY CONTROL SAMPLE: 3394512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	1000	845	84	70-130	

MATRIX SPIKE SAMPLE: 3394701

Parameter	Units	50349395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	3270	3370	99	50-150	

SAMPLE DUPLICATE: 3394702

Parameter	Units	50349395002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	679	453	40	30	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 788098
QC Batch Method: EPA 9095B
Analysis Method: EPA 9095B
Analysis Description: 9095 PAINT FILTER LIQUID TEST
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92676246001

SAMPLE DUPLICATE: 4085667

Parameter	Units	92678212002 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids		PASS	PASS			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 786929
QC Batch Method: EPA 350.1 Rev 2.0 1993 Mod.
Analysis Method: EPA 350.1 Rev 2.0 1993 Mod.
Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92676246001

METHOD BLANK: 4079931 Matrix: Solid
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	8.8	07/15/23 11:29	

LABORATORY CONTROL SAMPLE: 4079932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	500	518	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4079933 4079934

Parameter	Units	92676116001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/kg	6390	2150	2000	9910	9200	164	141	90-110	7	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 787236
QC Batch Method: EPA 351.2 Rev 2.0 1993
Analysis Method: EPA 351.2 Rev 2.0 1993
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92676246001

METHOD BLANK: 4081100 Matrix: Solid
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	07/18/23 03:27	

LABORATORY CONTROL SAMPLE: 4081101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	1040	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081102 4081103

Parameter	Units	92675970001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	1330	2710	2580	4500	4330	117	116	90-110	4	10	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92676246

QC Batch: 786119
QC Batch Method: EPA 353.2 Rev 2.0 1993
Analysis Method: EPA 353.2 Rev 2.0 1993
Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92676246001

METHOD BLANK: 4075858 Matrix: Solid
Associated Lab Samples: 92676246001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/kg	ND	4.0	07/12/23 00:16	
Nitrogen, Nitrite	mg/kg	ND	4.0	07/12/23 00:16	
Nitrogen, NO2 plus NO3	mg/kg	ND	4.0	07/12/23 00:16	

LABORATORY CONTROL SAMPLE: 4075859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/kg	15	15.3	102	90-110	
Nitrogen, Nitrite	mg/kg	10	10.2	102	90-110	
Nitrogen, NO2 plus NO3	mg/kg	25	25.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4075860 4075861

Parameter	Units	92676367001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/kg	ND	74.2	73.7	96.2	90.9	130	123	90-110	6	10	
Nitrogen, Nitrite	mg/kg	ND	49.6	49.1	56.0	55.5	109	108	90-110	1	10	
Nitrogen, NO2 plus NO3	mg/kg	ND	124	123	152	146	109	105	90-110	4	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Northeast Sludge Cake
Pace Project No.: 92676246

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H2	Extraction or preparation conducted outside EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.
T3	Insufficient sample received from client to perform the analysis per EPA method requirements.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Northeast Sludge Cake
Pace Project No.: 92676246

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92676246001	**Northeast Sludge Cake**	8151A	2095963	EPA 8151A	2095963
92676246001	**Northeast Sludge Cake**	EPA 3510C	786360	EPA 8081B	786822
92676246001	**Northeast Sludge Cake**	EPA 3050B	785522	EPA 6010D	785557
92676246001	**Northeast Sludge Cake**	EPA 3010A	785967	EPA 6010D	786044
92676246001	**Northeast Sludge Cake**	EPA 7470A	786472	EPA 7470A	786540
92676246001	**Northeast Sludge Cake**	EPA 7471B	785930	EPA 7471B	786230
92676246001	**Northeast Sludge Cake**	EPA 9045D	785708		
92676246001	**Northeast Sludge Cake**	EPA 3510C	787433	EPA 8270E	787575
92676246001	**Northeast Sludge Cake**	EPA 8260D	787523		
92676246001	**Northeast Sludge Cake**	SW-846	785989		
92676246001	**Northeast Sludge Cake**	EPA 9071B	857226	EPA 9071B	857287
92676246001	**Northeast Sludge Cake**	EPA 9095B	788098		
92676246001	**Northeast Sludge Cake**	TKN+NO3+NO2 Calculation	787544		
92676246001	**Northeast Sludge Cake**	EPA 350.1 Rev 2.0 1993 Mod.	786929	EPA 350.1 Rev 2.0 1993 Mod.	786948
92676246001	**Northeast Sludge Cake**	EPA 351.2 Rev 2.0 1993	787236	EPA 351.2 Rev 2.0 1993	787350
92676246001	**Northeast Sludge Cake**	EPA 353.2 Rev 2.0 1993	786119	EPA 353.2 Rev 2.0 1993	786120

CLAYTON COUNTY Water AUTHORITY

Water Reclamation Laboratory
688 Flint River Rd.
Jonesboro, GA. 30238
(770) 478-7496 Fax (770) 478-7301
Permit #: GA0038423 / GA02-008

Date	Time	Sample Description	Pres.	Composite/Grab	Analysis										
					503 Parameters	Paint Filter	TPH (Total petroleum Hydrocarbons	TCLP Metals	TCLP Volatiles	TCLP Semi-Volatiles	Total Metals	Total Phosphorus	TCLP Herbicides	TCLP Pesticides	
7-7-23	8:47	Northeast Sludge Cake	Ice	G	X	X	X	X	X	X	X	X	X	X	

WO# : 92676246

92676246

Sampled By: Joshua Cisco Date: 7-7-23 Time: 8:47

Relinquished By: Joshua Cisco Date: 7-7-23 Time: 2:33

Received By: [signature] Date: 7-7-23 Time: 1434

Relinquished By: Date: Time:

Received By: Date: Time:

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Clayton County Wate Pro

WO#: 92676246

PM: MP **Due Date: 07/20/23**

CLIENT: GA-ClaytonWW

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9-1-23 AK

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 10.1 **Correction Factor:** Add/Subtract (°C) -0-

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 10.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

		Comments/Discrepancy:
Chain of Custody Present?	☑ Yes ☐ No ☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes ☐ No ☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☑ No ☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes ☑ No ☐ N/A	4.
Sufficient Volume?	☑ Yes ☐ No ☐ N/A	5.
Correct Containers Used?	☑ Yes ☐ No ☐ N/A	6.
-Pace Containers Used?	☑ Yes ☐ No ☐ N/A	
Containers Intact?	☑ Yes ☐ No ☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes ☑ No ☐ N/A	8.
Sample Labels Match COC?	☑ Yes ☐ No ☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: SL		
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☑ N/A	10.
Trip Blank Present?	☐ Yes ☐ No ☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

WO#: 92676246

PM: MP **Due Date: 07/20/23**

CLIENT: GA-ClaytonWW

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	ZnAc	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																									1				
2																													
3																													
4																													
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9																													
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12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

July 24, 2023

Jennifer Brandon
Clayton Co Water Authority
688 Flint River Road
Jonesboro, GA 30238

RE: Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

Dear Jennifer Brandon:

Enclosed are the analytical results for sample(s) received by the laboratory on July 07, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Tony Somerville, Clayton Co Water Authority

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 88-00679
Illinois Certification #: 2000302023-5
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212023-1
Oklahoma Certification #: 2022-057
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-22-16
Utah Certification #: KS000212022-12
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92676252001	**Shoal Creek Sludge Cake**	Solid	07/07/23 09:39	07/07/23 16:34

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92676252001	**Shoal Creek Sludge Cake**	EPA 8151A	JMB	3	PAN
		EPA 8081B	SEM	9	PASI-C
		EPA 6010D	DRB	13	PASI-GA
		EPA 6010D	DRB	7	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 7471B	MT1	1	PASI-GA
		EPA 9045D	TJS	1	PASI-GA
		EPA 8270E	PKS	18	PASI-C
		EPA 8260D	SAS	14	PASI-C
		SW-846	KDF	1	PASI-C
		EPA 9071B	RKA	1	PASI-K
		EPA 9095B	YEG	1	PASI-A
		TKN+NO3+NO2 Calculation	MDW	1	PASI-A
		EPA 350.1 Rev 2.0 1993 Mod.	ARJ	1	PASI-A
		EPA 351.2 Rev 2.0 1993	MFO	1	PASI-A
		EPA 353.2 Rev 2.0 1993	MFO	3	PASI-A

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA
PASI-K = Pace Analytical Services - Kansas City

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

Sample: Shoal Creek Sludge Cake **Lab ID: 92676252001** Collected: 07/07/23 09:39 Received: 07/07/23 16:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chlorinated Herb. (GC) 8151A	Analytical Method: EPA 8151A Preparation Method: 8151A Leachate Method/Date: 1311; 07/13/23 14:33 Initial pH: 6.59; Final pH: 6.2 Pace National - Mt. Juliet							
2,4,5-TP (Silvex)	ND	mg/L	0.00200	1	07/18/23 09:39	07/18/23 20:51	93-72-1	
2,4-D	ND	mg/L	0.00200	1	07/18/23 09:39	07/18/23 20:51	94-75-7	
Surrogates								
2,4-DCAA (S)	106	%	14.0-158	1	07/18/23 09:39	07/18/23 20:51	19719-28-9	
8081 TCLP Pesticides RVE	Analytical Method: EPA 8081B Preparation Method: EPA 3510C Leachate Method/Date: EPA 1311; 07/11/23 15:17 Initial pH: 6.12; Final pH: 5 Pace Analytical Services - Charlotte							
gamma-BHC (Lindane)	ND	ug/L	0.50	1	07/12/23 17:49	07/14/23 15:39	58-89-9	
Chlordane (Technical)	ND	ug/L	3.0	1	07/12/23 17:49	07/14/23 15:39	57-74-9	
Endrin	ND	ug/L	0.50	1	07/12/23 17:49	07/14/23 15:39	72-20-8	
Heptachlor	ND	ug/L	0.50	1	07/12/23 17:49	07/14/23 15:39	76-44-8	
Heptachlor epoxide	ND	ug/L	0.50	1	07/12/23 17:49	07/14/23 15:39	1024-57-3	
Methoxychlor	ND	ug/L	1000	1	07/12/23 17:49	07/14/23 15:39	72-43-5	
Toxaphene	ND	ug/L	3.0	1	07/12/23 17:49	07/14/23 15:39	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	98	%	19-200	1	07/12/23 17:49	07/14/23 15:39	2051-24-3	
Tetrachloro-m-xylene (S)	70	%	10-137	1	07/12/23 17:49	07/14/23 15:39	877-09-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/kg	5.4	1	07/08/23 10:42	07/10/23 23:09	7440-38-2	
Cadmium	ND	mg/kg	1.8	1	07/08/23 10:42	07/10/23 23:09	7440-43-9	
Calcium	**9950**	mg/kg	179	1	07/08/23 10:42	07/12/23 14:33	7440-70-2	
Chromium	**66.3**	mg/kg	1.8	1	07/08/23 10:42	07/10/23 23:09	7440-47-3	
Copper	**340**	mg/kg	7.2	1	07/08/23 10:42	07/10/23 23:09	7440-50-8	
Iron	**35700**	mg/kg	7.2	1	07/08/23 10:42	07/10/23 23:09	7439-89-6	
Lead	**25.9**	mg/kg	4.5	1	07/08/23 10:42	07/10/23 23:09	7439-92-1	
Molybdenum	**7.6**	mg/kg	7.2	1	07/08/23 10:42	07/10/23 23:09	7439-98-7	
Nickel	**16.1**	mg/kg	3.6	1	07/08/23 10:42	07/10/23 23:09	7440-02-0	
Phosphorus	**30100**	mg/kg	358	10	07/08/23 10:42	07/12/23 14:38	7723-14-0	
Potassium	**6080**	mg/kg	89.5	1	07/08/23 10:42	07/10/23 23:09	7440-09-7	
Selenium	ND	mg/kg	9.0	1	07/08/23 10:42	07/10/23 23:09	7782-49-2	
Zinc	**402**	mg/kg	5.4	1	07/08/23 10:42	07/10/23 23:09	7440-66-6	
6010D ATL ICP, TCLP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 07/10/23 15:00 Initial pH: 8.16; Final pH: 5.83 Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.30	1	07/11/23 12:00	07/11/23 19:06	7440-38-2	
Barium	ND	mg/L	0.50	1	07/11/23 12:00	07/11/23 19:06	7440-39-3	
Cadmium	ND	mg/L	0.10	1	07/11/23 12:00	07/11/23 19:06	7440-43-9	
Chromium	ND	mg/L	0.10	1	07/11/23 12:00	07/11/23 19:06	7440-47-3	
Lead	ND	mg/L	0.25	1	07/11/23 12:00	07/11/23 19:06	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

Sample: Shoal Creek Sludge Cake **Lab ID: 92676252001** Collected: 07/07/23 09:39 Received: 07/07/23 16:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP, TCLP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 07/10/23 15:00 Initial pH: 8.16; Final pH: 5.83 Pace Analytical Services - Peachtree Corners, GA							
Selenium	ND	mg/L	0.40	1	07/11/23 12:00	07/11/23 19:06	7782-49-2	
Silver	ND	mg/L	0.10	1	07/11/23 12:00	07/11/23 19:06	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 07/10/23 15:00 Initial pH: 8.16; Final pH: 5.83 Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.0050	1	07/13/23 10:30	07/13/23 14:27	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/kg	0.42	1	07/11/23 16:00	07/12/23 13:43	7439-97-6	
9045 pH Soil	Analytical Method: EPA 9045D Pace Analytical Services - Peachtree Corners, GA							
pH at 25 Degrees C	**6.4**	Std. Units	0.10	1		07/10/23 13:16		H3
8270E TCLP RVE	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Leachate Method/Date: EPA 1311; 07/11/23 15:17 Initial pH: 6.12; Final pH: 5 Pace Analytical Services - Charlotte							
1,4-Dichlorobenzene	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	87-68-3	
Hexachlorobenzene	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	118-74-1	
Hexachloroethane	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	15831-10-4	
Nitrobenzene	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	98-95-3	
Pentachlorophenol	ND	ug/L	100	1	07/13/23 18:09	07/14/23 22:28	87-86-5	
Pyridine	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	50.0	1	07/13/23 18:09	07/14/23 22:28	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	56	%	10-138	1	07/13/23 18:09	07/14/23 22:28	4165-60-0	
2-Fluorobiphenyl (S)	57	%	10-130	1	07/13/23 18:09	07/14/23 22:28	321-60-8	
Terphenyl-d14 (S)	88	%	19-191	1	07/13/23 18:09	07/14/23 22:28	1718-51-0	
Phenol-d6 (S)	21	%	10-130	1	07/13/23 18:09	07/14/23 22:28	13127-88-3	
2-Fluorophenol (S)	30	%	10-130	1	07/13/23 18:09	07/14/23 22:28	367-12-4	
2,4,6-Tribromophenol (S)	87	%	10-164	1	07/13/23 18:09	07/14/23 22:28	118-79-6	
8260D MSV TCLP	Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 07/17/23 13:52 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	100	20		07/19/23 03:32	71-43-2	
2-Butanone (MEK)	ND	ug/L	200	20		07/19/23 03:32	78-93-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

Sample: Shoal Creek Sludge Cake **Lab ID: 92676252001** Collected: 07/07/23 09:39 Received: 07/07/23 16:34 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV TCLP	Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 07/17/23 13:52 Pace Analytical Services - Charlotte							
Carbon tetrachloride	ND	ug/L	100	20		07/19/23 03:32	56-23-5	
Chlorobenzene	ND	ug/L	100	20		07/19/23 03:32	108-90-7	
Chloroform	ND	ug/L	100	20		07/19/23 03:32	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	100	20		07/19/23 03:32	106-46-7	
1,2-Dichloroethane	ND	ug/L	100	20		07/19/23 03:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	20		07/19/23 03:32	75-35-4	
Tetrachloroethene	ND	ug/L	100	20		07/19/23 03:32	127-18-4	
Trichloroethene	ND	ug/L	100	20		07/19/23 03:32	79-01-6	
Vinyl chloride	ND	ug/L	100	20		07/19/23 03:32	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	20		07/19/23 03:32	17060-07-0	
Toluene-d8 (S)	103	%	70-130	20		07/19/23 03:32	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	20		07/19/23 03:32	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**86.1**	%	0.10	1		07/11/23 13:17		N2
9071 HEM TPH in Soil	Analytical Method: EPA 9071B Preparation Method: EPA 9071B Pace Analytical Services - Kansas City							
Total Petroleum Hydrocarbons	ND	mg/kg	5000	1	07/20/23 10:20	07/20/23 15:04		
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095B Pace Analytical Services - Asheville							
Free Liquids	**PASS**		1.0	1		07/21/23 11:48		T3
Total Nitrogen Calculation	Analytical Method: TKN+NO3+NO2 Calculation Pace Analytical Services - Asheville							
Nitrogen	**52100**	mg/kg	40.0	1		07/18/23 16:03	7727-37-9	
350.1 Ammonia	Analytical Method: EPA 350.1 Rev 2.0 1993 Mod. Preparation Method: EPA 350.1 Rev 2.0 1993 Mod. Pace Analytical Services - Asheville							
Nitrogen, Ammonia	**2460**	mg/kg	67.9	1	07/14/23 16:07	07/15/23 11:41	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Rev 2.0 1993 Preparation Method: EPA 351.2 Rev 2.0 1993 Pace Analytical Services - Asheville							
Nitrogen, Kjeldahl, Total	**52100**	mg/kg	1710	5	07/17/23 18:10	07/18/23 04:13	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Rev 2.0 1993 Preparation Method: EPA 353.2 Rev 2.0 1993 Pace Analytical Services - Asheville							
Nitrogen, NO2 plus NO3	ND	mg/kg	28.2	1	07/11/23 22:22	07/12/23 00:22		H1,H2
Nitrogen, Nitrate	ND	mg/kg	28.2	1	07/11/23 22:22	07/12/23 00:22	14797-55-8	
Nitrogen, Nitrite	ND	mg/kg	28.2	1	07/11/23 22:22	07/12/23 00:22	14797-65-0	H1,H2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 2095963
QC Batch Method: 8151A
Analysis Method: EPA 8151A
Analysis Description: Chlorinated Herb. (GC) 8151A
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92676252001

METHOD BLANK: R3950121-1 Matrix: Solid
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.00200	07/18/23 19:45	
2,4-D	mg/L	ND	0.00200	07/18/23 19:45	
2,4-DCAA (S)	%	101	14.0-158	07/18/23 19:45	

LABORATORY CONTROL SAMPLE: R3950121-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	0.0500	0.0506	101	50.0-125	E
2,4-D	mg/L	0.0500	0.0493	98.6	50.0-120	
2,4-DCAA (S)	%			99.2	14.0-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3950121-3 R3950121-4

Parameter	Units	L1633747-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	mg/L	ND	0.0500	0.0500	0.0529	0.0555	106	111	50.0-125	4.80	20	E
2,4-D	mg/L	ND	0.0500	0.0500	0.0631	0.0541	126	108	50.0-120	15.4	20	E,MH
2,4-DCAA (S)	%						120	109	14.0-158			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 785522
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92676252001

METHOD BLANK: 4073183 Matrix: Solid
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.7	07/10/23 21:04	
Cadmium	mg/kg	ND	0.91	07/10/23 21:04	
Calcium	mg/kg	ND	90.9	07/12/23 13:28	
Chromium	mg/kg	ND	0.91	07/10/23 21:04	
Copper	mg/kg	ND	3.6	07/12/23 13:28	
Iron	mg/kg	ND	3.6	07/10/23 21:04	
Lead	mg/kg	ND	2.3	07/10/23 21:04	
Molybdenum	mg/kg	ND	3.6	07/10/23 21:04	
Nickel	mg/kg	ND	1.8	07/10/23 21:04	
Phosphorus	mg/kg	ND	18.2	07/10/23 21:04	
Potassium	mg/kg	ND	45.5	07/12/23 13:28	
Selenium	mg/kg	ND	4.5	07/10/23 21:04	
Zinc	mg/kg	ND	2.7	07/10/23 21:04	

LABORATORY CONTROL SAMPLE: 4073184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	98	94.7	97	80-120	
Cadmium	mg/kg	98	101	103	80-120	
Calcium	mg/kg	98	95J	97	80-120	
Chromium	mg/kg	98	99.2	101	80-120	
Copper	mg/kg	98	103	105	80-120	
Iron	mg/kg	98	116	118	80-120	
Lead	mg/kg	98	97.8	100	80-120	
Molybdenum	mg/kg	98	101	103	80-120	
Nickel	mg/kg	98	94.9	97	80-120	
Phosphorus	mg/kg	98	101	103	80-120	
Potassium	mg/kg	98	100	102	80-120	
Selenium	mg/kg	98	99.2	101	80-120	
Zinc	mg/kg	98	88.8	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4073185 4073186

Parameter	Units	92675320002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.2	100	98.2	98.3	97.0	95	96	75-125	1	20	
Cadmium	mg/kg	ND	100	98.2	103	103	103	104	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4073185 4073186

Parameter	Units	92675320002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/kg	ND	100	98.2	148	164	82	100	75-125	11	20	
Chromium	mg/kg	41.8	100	98.2	136	131	94	91	75-125	3	20	
Copper	mg/kg	11.3	100	98.2	117	115	106	106	75-125	1	20	
Iron	mg/kg	16100	100	98.2	13900	12600	-2180	-3530	75-125	10	20	M1
Lead	mg/kg	6.8	100	98.2	108	107	101	102	75-125	1	20	
Molybdenum	mg/kg	ND	100	98.2	102	101	98	100	75-125	0	20	
Nickel	mg/kg	3.1	100	98.2	101	99.1	98	98	75-125	2	20	
Phosphorus	mg/kg	153	100	98.2	250	243	98	92	75-125	3	20	
Potassium	mg/kg	ND	100	98.2	132	149	101	120	75-125	12	20	
Selenium	mg/kg	ND	100	98.2	88.1	90.9	88	93	75-125	3	20	
Zinc	mg/kg	3.2	100	98.2	96.3	94.5	93	93	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 785967
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL TCLP
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92676252001

METHOD BLANK: 4073716 Matrix: Water
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.30	07/11/23 17:58	
Barium	mg/L	ND	0.50	07/11/23 17:58	
Cadmium	mg/L	ND	0.10	07/11/23 17:58	
Chromium	mg/L	ND	0.10	07/11/23 17:58	
Lead	mg/L	ND	0.25	07/11/23 17:58	
Selenium	mg/L	ND	0.40	07/11/23 17:58	
Silver	mg/L	ND	0.10	07/11/23 17:58	

LABORATORY CONTROL SAMPLE: 4074895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	10	10.0	100	80-120	
Barium	mg/L	10	9.8	98	80-120	
Cadmium	mg/L	10	9.9	99	80-120	
Chromium	mg/L	10	9.4	94	80-120	
Lead	mg/L	10	9.5	95	80-120	
Selenium	mg/L	10	9.8	98	80-120	
Silver	mg/L	10	9.2	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4074896 4074897

Parameter	Units	92676092001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	10	10	10.1	10.1	101	101	75-125	0	20	
Barium	mg/L	0.77	10	10	10.6	10.6	98	98	75-125	0	20	
Cadmium	mg/L	ND	10	10	9.9	9.8	99	98	75-125	1	20	
Chromium	mg/L	ND	10	10	9.5	9.4	95	94	75-125	1	20	
Lead	mg/L	ND	10	10	9.5	9.4	95	94	75-125	1	20	
Selenium	mg/L	ND	10	10	9.8	9.9	98	99	75-125	2	20	
Silver	mg/L	ND	10	10	9.3	9.4	93	94	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 786472
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury TCLP, ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92676252001

METHOD BLANK: 4073716 Matrix: Water
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0050	07/13/23 13:56	

LABORATORY CONTROL SAMPLE: 4077519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.017	0.016	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4077520 4077521

Parameter	Units	92676146001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.017	0.017	0.015	0.014	89	87	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 785930
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92676252001

METHOD BLANK: 4074606 Matrix: Solid
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.24	07/12/23 12:54	

LABORATORY CONTROL SAMPLE: 4074607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.33	0.33	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4074608 4074609

Parameter	Units	92676103004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.4	0.4	0.39	0.39	90	94	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 785708
QC Batch Method: EPA 9045D
Analysis Method: EPA 9045D
Analysis Description: 9045 pH
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92676252001

SAMPLE DUPLICATE: 4073681

Parameter	Units	92676246001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	10	H3

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 787523
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV TCLP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92676252001

METHOD BLANK: 4082712 Matrix: Water
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	07/18/23 23:24	
1,2-Dichloroethane	ug/L	ND	5.0	07/18/23 23:24	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/18/23 23:24	
2-Butanone (MEK)	ug/L	ND	10.0	07/18/23 23:24	
Benzene	ug/L	ND	5.0	07/18/23 23:24	
Carbon tetrachloride	ug/L	ND	5.0	07/18/23 23:24	
Chlorobenzene	ug/L	ND	5.0	07/18/23 23:24	
Chloroform	ug/L	ND	5.0	07/18/23 23:24	
Tetrachloroethene	ug/L	ND	5.0	07/18/23 23:24	
Trichloroethene	ug/L	ND	5.0	07/18/23 23:24	
Vinyl chloride	ug/L	ND	5.0	07/18/23 23:24	
1,2-Dichloroethane-d4 (S)	%	116	70-130	07/18/23 23:24	
4-Bromofluorobenzene (S)	%	95	70-130	07/18/23 23:24	
Toluene-d8 (S)	%	104	70-130	07/18/23 23:24	

LABORATORY CONTROL SAMPLE: 4082711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	20.1	100	70-130	
1,4-Dichlorobenzene	ug/L	20	19.1	96	70-130	
2-Butanone (MEK)	ug/L	40	41.1	103	70-134	
Benzene	ug/L	20	19.8	99	70-130	
Carbon tetrachloride	ug/L	20	19.7	99	70-130	
Chlorobenzene	ug/L	20	19.8	99	70-130	
Chloroform	ug/L	20	20.0	100	70-130	
Tetrachloroethene	ug/L	20	18.6	93	70-130	
Trichloroethene	ug/L	20	19.2	96	70-130	
Vinyl chloride	ug/L	20	16.2	81	62-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4082713 4082714

Parameter	Units	92677416001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	20	20	ND	ND	108	101	70-156		30	
1,2-Dichloroethane	ug/L	ND	20	20	ND	ND	104	100	69-143		30	
1,4-Dichlorobenzene	ug/L	ND	20	20	ND	ND	101	95	70-142		30	
2-Butanone (MEK)	ug/L	ND	40	40	ND	ND	123	123	60-157		30	
Benzene	ug/L	ND	20	20	ND	ND	101	94	70-142		30	
Carbon tetrachloride	ug/L	ND	20	20	ND	ND	109	83	70-148		30	
Chlorobenzene	ug/L	ND	20	20	ND	ND	99	100	70-141		30	
Chloroform	ug/L	ND	20	20	ND	ND	99	101	70-148		30	
Tetrachloroethene	ug/L	ND	20	20	ND	ND	80	76	70-145		30	
Trichloroethene	ug/L	ND	20	20	ND	ND	79	77	62-146		30	
Vinyl chloride	ug/L	ND	20	20	ND	ND	86	78	61-163		30	
1,2-Dichloroethane-d4 (S)	%						105	106	70-130			
4-Bromofluorobenzene (S)	%						95	96	70-130			
Toluene-d8 (S)	%						102	101	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 786360
QC Batch Method: EPA 3510C
Analysis Method: EPA 8081B
Analysis Description: 8081 TCLP Pesticides RV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92676252001

METHOD BLANK: 4075209 Matrix: Water
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	ug/L	ND	3.0	07/14/23 16:42	
Endrin	ug/L	ND	0.50	07/14/23 16:42	
gamma-BHC (Lindane)	ug/L	ND	0.50	07/14/23 16:42	
Heptachlor	ug/L	ND	0.50	07/14/23 16:42	
Heptachlor epoxide	ug/L	ND	0.50	07/14/23 16:42	
Methoxychlor	ug/L	ND	1000	07/14/23 16:42	
Toxaphene	ug/L	ND	3.0	07/14/23 16:42	
Decachlorobiphenyl (S)	%	28	19-200	07/14/23 16:42	
Tetrachloro-m-xylene (S)	%	65	10-137	07/14/23 16:42	

LABORATORY CONTROL SAMPLE: 4077037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin	ug/L	1.2	1.1	92	33-190	
gamma-BHC (Lindane)	ug/L	1.2	0.92	74	32-148	
Heptachlor	ug/L	1.2	0.86	69	32-149	
Heptachlor epoxide	ug/L	1.2	0.93	74	37-149	
Methoxychlor	ug/L	3.8	2.9J	77	35-171	
Decachlorobiphenyl (S)	%			33	19-200	
Tetrachloro-m-xylene (S)	%			52	10-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4077038 4077039

Parameter	Units	92676384001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Endrin	ug/L	ND	1.2	1.2	1.7	1.9	139	154	10-200	10	30	
gamma-BHC (Lindane)	ug/L	ND	1.2	1.2	1.3	1.5	106	122	13-163	14	30	
Heptachlor	ug/L	ND	1.2	1.2	1.4	1.5	112	122	10-172	9	30	
Heptachlor epoxide	ug/L	ND	1.2	1.2	1.4	1.6	114	127	10-168	10	30	
Methoxychlor	ug/L	ND	3.8	3.8	4.6J	5J	122	132	13-183		30	
Decachlorobiphenyl (S)	%						106	101	19-200			
Tetrachloro-m-xylene (S)	%						93	102	10-137			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 786607
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E
Analysis Description: 8270E TCLP MSSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92676252001

METHOD BLANK: 4076481 Matrix: Water
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	50.0	07/14/23 11:14	
2,4,5-Trichlorophenol	ug/L	ND	50.0	07/14/23 11:14	
2,4,6-Trichlorophenol	ug/L	ND	50.0	07/14/23 11:14	
2,4-Dinitrotoluene	ug/L	ND	50.0	07/14/23 11:14	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	07/14/23 11:14	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	07/14/23 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	07/14/23 11:14	
Hexachlorobenzene	ug/L	ND	50.0	07/14/23 11:14	
Hexachloroethane	ug/L	ND	50.0	07/14/23 11:14	
Nitrobenzene	ug/L	ND	50.0	07/14/23 11:14	
Pentachlorophenol	ug/L	ND	100	07/14/23 11:14	
Pyridine	ug/L	ND	50.0	07/14/23 11:14	
2,4,6-Tribromophenol (S)	%	88	10-164	07/14/23 11:14	
2-Fluorobiphenyl (S)	%	57	10-130	07/14/23 11:14	
2-Fluorophenol (S)	%	41	10-130	07/14/23 11:14	
Nitrobenzene-d5 (S)	%	63	10-138	07/14/23 11:14	
Phenol-d6 (S)	%	32	10-130	07/14/23 11:14	
Terphenyl-d14 (S)	%	84	19-191	07/14/23 11:14	

LABORATORY CONTROL SAMPLE: 4078409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	324	65	10-130	
2,4,5-Trichlorophenol	ug/L	500	541	108	38-147	
2,4,6-Trichlorophenol	ug/L	500	519	104	34-142	
2,4-Dinitrotoluene	ug/L	500	570	114	44-154	
2-Methylphenol(o-Cresol)	ug/L	500	477	95	31-130	
3&4-Methylphenol(m&p Cresol)	ug/L	500	432	86	30-130	
Hexachloro-1,3-butadiene	ug/L	500	357	71	10-130	
Hexachlorobenzene	ug/L	500	524	105	44-138	
Hexachloroethane	ug/L	500	325	65	10-130	
Nitrobenzene	ug/L	500	470	94	33-133	
Pentachlorophenol	ug/L	1000	1170	117	21-163	
Pyridine	ug/L	500	372	74	16-130	
2,4,6-Tribromophenol (S)	%			112	10-164	
2-Fluorobiphenyl (S)	%			82	10-130	
2-Fluorophenol (S)	%			61	10-130	
Nitrobenzene-d5 (S)	%			92	10-138	
Phenol-d6 (S)	%			52	10-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

LABORATORY CONTROL SAMPLE: 4078409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			102	19-191	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 785989
QC Batch Method: SW-846
Analysis Method: SW-846
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92676252001

SAMPLE DUPLICATE: 4075105

Parameter	Units	30602793001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.5	29.4	0	25	N2

SAMPLE DUPLICATE: 4075106

Parameter	Units	92676260001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	98.4	98.4	0	25	N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 857226
QC Batch Method: EPA 9071B
Analysis Method: EPA 9071B
Analysis Description: 9071B HEM-TPH Gravimetric
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 92676252001

METHOD BLANK: 3394511 Matrix: Solid
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	250	07/20/23 15:03	

LABORATORY CONTROL SAMPLE: 3394512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	1000	845	84	70-130	

MATRIX SPIKE SAMPLE: 3394701

Parameter	Units	50349395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	3270	3370	99	50-150	

SAMPLE DUPLICATE: 3394702

Parameter	Units	50349395002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	679	453	40	30	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 788098
QC Batch Method: EPA 9095B
Analysis Method: EPA 9095B
Analysis Description: 9095 PAINT FILTER LIQUID TEST
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92676252001

SAMPLE DUPLICATE: 4085667

Parameter	Units	92678212002 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids		PASS	PASS			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 786929
QC Batch Method: EPA 350.1 Rev 2.0 1993 Mod.
Analysis Method: EPA 350.1 Rev 2.0 1993 Mod.
Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92676252001

METHOD BLANK: 4079931 Matrix: Solid
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	8.8	07/15/23 11:29	

LABORATORY CONTROL SAMPLE: 4079932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	500	518	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4079933 4079934

Parameter	Units	92676116001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/kg	6390	2150	2000	9910	9200	164	141	90-110	7	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 787236
QC Batch Method: EPA 351.2 Rev 2.0 1993
Analysis Method: EPA 351.2 Rev 2.0 1993
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92676252001

METHOD BLANK: 4081100 Matrix: Solid
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	07/18/23 03:27	

LABORATORY CONTROL SAMPLE: 4081101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	1040	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081102 4081103

Parameter	Units	92675970001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	1330	2710	2580	4500	4330	117	116	90-110	4	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

QC Batch: 786119
QC Batch Method: EPA 353.2 Rev 2.0 1993
Analysis Method: EPA 353.2 Rev 2.0 1993
Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92676252001

METHOD BLANK: 4075858 Matrix: Solid
Associated Lab Samples: 92676252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/kg	ND	4.0	07/12/23 00:16	
Nitrogen, Nitrite	mg/kg	ND	4.0	07/12/23 00:16	
Nitrogen, NO2 plus NO3	mg/kg	ND	4.0	07/12/23 00:16	

LABORATORY CONTROL SAMPLE: 4075859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/kg	15	15.3	102	90-110	
Nitrogen, Nitrite	mg/kg	10	10.2	102	90-110	
Nitrogen, NO2 plus NO3	mg/kg	25	25.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4075860 4075861

Parameter	Units	92676367001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/kg	ND	74.2	73.7	96.2	90.9	130	123	90-110	6	10	
Nitrogen, Nitrite	mg/kg	ND	49.6	49.1	56.0	55.5	109	108	90-110	1	10	
Nitrogen, NO2 plus NO3	mg/kg	ND	124	123	152	146	109	105	90-110	4	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H2	Extraction or preparation conducted outside EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
T3	Insufficient sample received from client to perform the analysis per EPA method requirements.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Shoal Creek Sludge Cake
Pace Project No.: 92676252

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92676252001	**Shoal Creek Sludge Cake**	8151A	2095963	EPA 8151A	2095963
92676252001	**Shoal Creek Sludge Cake**	EPA 3510C	786360	EPA 8081B	786822
92676252001	**Shoal Creek Sludge Cake**	EPA 3050B	785522	EPA 6010D	785557
92676252001	**Shoal Creek Sludge Cake**	EPA 3010A	785967	EPA 6010D	786044
92676252001	**Shoal Creek Sludge Cake**	EPA 7470A	786472	EPA 7470A	786540
92676252001	**Shoal Creek Sludge Cake**	EPA 7471B	785930	EPA 7471B	786230
92676252001	**Shoal Creek Sludge Cake**	EPA 9045D	785708		
92676252001	**Shoal Creek Sludge Cake**	EPA 3510C	786607	EPA 8270E	786900
92676252001	**Shoal Creek Sludge Cake**	EPA 8260D	787523		
92676252001	**Shoal Creek Sludge Cake**	SW-846	785989		
92676252001	**Shoal Creek Sludge Cake**	EPA 9071B	857226	EPA 9071B	857287
92676252001	**Shoal Creek Sludge Cake**	EPA 9095B	788098		
92676252001	**Shoal Creek Sludge Cake**	TKN+NO3+NO2 Calculation	787544		
92676252001	**Shoal Creek Sludge Cake**	EPA 350.1 Rev 2.0 1993 Mod.	786929	EPA 350.1 Rev 2.0 1993 Mod.	786948
92676252001	**Shoal Creek Sludge Cake**	EPA 351.2 Rev 2.0 1993	787236	EPA 351.2 Rev 2.0 1993	787350
92676252001	**Shoal Creek Sludge Cake**	EPA 353.2 Rev 2.0 1993	786119	EPA 353.2 Rev 2.0 1993	786120

CLAYTON COUNTY Water AUTHORITY

Water Reclamation Laboratory
688 Flint River Rd.
Jonesboro, GA. 30238
(770) 478-7496 Fax (770) 478-7301
Permit #: GA0038423 / GA02-008

Date	Time	Sample Description	Pres.	Composite/Grab	Analysis										
					503 Parameters	Paint Filter	TPH (Total petroleum Hydrocarbons	TCLP Metals	TCLP Volatiles	TCLP Semi-Volatiles	Total Metals	Total Phosphorus	TCLP Herbicides	TCLP Pesticides	
7-7-23	9:39	Shoal Creek Sludge Cake	Ice	G	X	X	X	X	X	X	X	X	X	X	

Sampled By: Joshua Cisco Date: 7-7-23 Time: 9:39

Relinquished By: Joshua Cisco Date: 7-7-23 Time: 2:33

Received By: [signature] Date: 7-7-23 Time: 1434

Relinquished By: Date: Time:

Received By: Date: Time:

Additional Information:

WO# : 92676252

92676252

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Clayton County Wat

WO#: 92676252

PM: MP **Due Date: 07/20/23**

CLIENT: GA-ClaytonWW

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Clier ☐ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 7-1-23 AY

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 10.1 **Correction Factor:** Add/Subtract (°C) -0-

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 10.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☐ Yes	☑ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO# : 92676252

PM: MP Due Date: 07/20/23

CLIENT: GA-ClaytonWW

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	ZPLC	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																									1				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

January 22, 2024

Jennifer Brandon
Clayton Co Water Authority
688 Flint River Road
Jonesboro, GA 30238

RE: Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

Dear Jennifer Brandon:

Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Tony Somerville, Clayton Co Water Authority

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92706115001	**Pellitizing Sludge Cake**	Solid	12/29/23 09:25	12/29/23 10:13

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92706115001	**Pellitizing Sludge Cake**	EPA 8151A	MFM	3	PAN
		EPA 6010D	DRB	7	PASI-GA
		EPA 6010D	DRB	7	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 7471B	VB	1	PASI-GA
		EPA 9045D	TLB1	1	PASI-GA
		EPA 8270E	PKS	18	PASI-C
		EPA 8260D	SAS	14	PASI-C
		SW-846	KDF	1	PASI-C
		SM 2540G	DLS	1	PAN
		EPA 9071B	WAW	1	PAN
		EPA 9095B	YEG	1	PASI-A
		TKN+NO3+NO2 Calculation	MDW	1	PASI-A
		EPA 350.1 Rev 2.0 1993 Mod.	NCF	1	PASI-A
		EPA 351.2 Rev 2.0 1993	MFO	1	PASI-A
		EPA 353.2 Rev 2.0 1993	NCF	3	PASI-A

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

Sample: Pellitizing Sludge Cake **Lab ID: 92706115001** Collected: 12/29/23 09:25 Received: 12/29/23 10:13 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chlorinated Herb. (GC) 8151A	Analytical Method: EPA 8151A Preparation Method: 8151A Leachate Method/Date: 1311; 01/10/24 10:13 Initial pH: 6.02; Final pH: 5.01 Pace National - Mt. Juliet							
2,4,5-TP (Silvex)	ND	mg/L	0.00200	1	01/11/24 15:02	01/13/24 05:56	93-72-1	
2,4-D	ND	mg/L	0.00200	1	01/11/24 15:02	01/13/24 05:56	94-75-7	
Surrogates								
2,4-DCAA (S)	80.8	%	14.0-158	1	01/11/24 15:02	01/13/24 05:56	19719-28-9	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/kg	4.7	1	01/04/24 14:22	01/08/24 18:36	7440-38-2	
Barium	**164**	mg/kg	1.6	1	01/04/24 14:22	01/08/24 18:36	7440-39-3	
Cadmium	ND	mg/kg	1.6	1	01/04/24 14:22	01/08/24 18:36	7440-43-9	
Chromium	**16.9**	mg/kg	1.6	1	01/04/24 14:22	01/08/24 18:36	7440-47-3	
Lead	**19.2**	mg/kg	4.0	1	01/04/24 14:22	01/08/24 18:36	7439-92-1	
Selenium	ND	mg/kg	7.9	1	01/04/24 14:22	01/08/24 18:36	7782-49-2	
Silver	ND	mg/kg	1.6	1	01/04/24 14:22	01/08/24 18:36	7440-22-4	
6010D ATL ICP, TCLP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 01/16/24 10:23 Pace Analytical Services - Peachtree Corners, GA							
Arsenic	ND	mg/L	0.30	1	01/16/24 13:04	01/17/24 19:45	7440-38-2	
Barium	ND	mg/L	0.50	1	01/16/24 13:04	01/17/24 19:45	7440-39-3	
Cadmium	ND	mg/L	0.10	1	01/16/24 13:04	01/17/24 19:45	7440-43-9	
Chromium	ND	mg/L	0.10	1	01/16/24 13:04	01/17/24 19:45	7440-47-3	
Lead	ND	mg/L	0.25	1	01/16/24 13:04	01/17/24 19:45	7439-92-1	
Selenium	ND	mg/L	0.40	1	01/16/24 13:04	01/17/24 19:45	7782-49-2	
Silver	ND	mg/L	0.10	1	01/16/24 13:04	01/17/24 19:45	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 01/16/24 10:23 Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.0050	1	01/16/24 11:30	01/16/24 14:49	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/kg	0.39	1	01/05/24 09:00	01/05/24 13:08	7439-97-6	
9045 pH Soil	Analytical Method: EPA 9045D Pace Analytical Services - Peachtree Corners, GA							
pH at 25 Degrees C	**5.6**	Std. Units	0.10	1		12/30/23 12:32		H3
8270E TCLP RVE	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Leachate Method/Date: EPA 1311; 01/02/24 12:00 Initial pH: 5.33; Final pH: 5 Pace Analytical Services - Charlotte							
1,4-Dichlorobenzene	ND	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	106-46-7	R1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

Sample: Pellitizing Sludge Cake **Lab ID: 92706115001** Collected: 12/29/23 09:25 Received: 12/29/23 10:13 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E TCLP RVE	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Leachate Method/Date: EPA 1311; 01/02/24 12:00 Initial pH: 5.33; Final pH: 5 Pace Analytical Services - Charlotte							
2,4-Dinitrotoluene	ND	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	87-68-3	R1
Hexachlorobenzene	ND	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	118-74-1	
Hexachloroethane	ND	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	67-72-1	R1
2-Methylphenol(o-Cresol)	ND	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	95-48-7	
3&4-Methylphenol(m&p Cresol)	**1130**	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	15831-10-4	M1
Nitrobenzene	ND	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	98-95-3	
Pentachlorophenol	ND	ug/L	100	1	01/03/24 11:02	01/05/24 13:02	87-86-5	
Pyridine	ND	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	110-86-1	M1
2,4,5-Trichlorophenol	ND	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	50.0	1	01/03/24 11:02	01/05/24 13:02	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	64	%	10-133	1	01/03/24 11:02	01/05/24 13:02	4165-60-0	
2-Fluorobiphenyl (S)	46	%	10-130	1	01/03/24 11:02	01/05/24 13:02	321-60-8	
Terphenyl-d14 (S)	70	%	10-193	1	01/03/24 11:02	01/05/24 13:02	1718-51-0	
Phenol-d6 (S)	56	%	10-130	1	01/03/24 11:02	01/05/24 13:02	13127-88-3	
2-Fluorophenol (S)	62	%	10-130	1	01/03/24 11:02	01/05/24 13:02	367-12-4	
2,4,6-Tribromophenol (S)	72	%	10-166	1	01/03/24 11:02	01/05/24 13:02	118-79-6	
8260D MSV TCLP	Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 01/03/24 14:06 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	100	20		01/04/24 14:34	71-43-2	
2-Butanone (MEK)	**3250**	ug/L	200	20		01/04/24 14:34	78-93-3	
Carbon tetrachloride	ND	ug/L	100	20		01/04/24 14:34	56-23-5	
Chlorobenzene	ND	ug/L	100	20		01/04/24 14:34	108-90-7	
Chloroform	ND	ug/L	100	20		01/04/24 14:34	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	100	20		01/04/24 14:34	106-46-7	
1,2-Dichloroethane	ND	ug/L	100	20		01/04/24 14:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	20		01/04/24 14:34	75-35-4	
Tetrachloroethene	ND	ug/L	100	20		01/04/24 14:34	127-18-4	
Trichloroethene	ND	ug/L	100	20		01/04/24 14:34	79-01-6	
Vinyl chloride	ND	ug/L	100	20		01/04/24 14:34	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	20		01/04/24 14:34	17060-07-0	
Toluene-d8 (S)	112	%	70-130	20		01/04/24 14:34	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	20		01/04/24 14:34	460-00-4	
Percent Moisture	Analytical Method: SW-846 Pace Analytical Services - Charlotte							
Percent Moisture	**84.5**	%	0.10	1		01/02/24 15:46		N2
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: 2540 G Pace National - Mt. Juliet							
Total Solids	**15.3**	%		1	01/11/24 11:35	01/12/24 19:08		H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

Sample: Pellitizing Sludge Cake **Lab ID: 92706115001** Collected: 12/29/23 09:25 Received: 12/29/23 10:13 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Wet Chemistry 9071B	Analytical Method: EPA 9071B Preparation Method: 9071B Pace National - Mt. Juliet							
Total Petroleum Hydrocarbons	**298**	mg/kg	100	1	01/14/24 09:27	01/17/24 17:38		
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095B Pace Analytical Services - Asheville							
Free Liquids	**PASS**		1.0	1		01/15/24 12:16		T3
Total Nitrogen Calculation	Analytical Method: TKN+NO3+NO2 Calculation Pace Analytical Services - Asheville							
Nitrogen	**71700**	mg/kg	40.0	1		01/16/24 14:51	7727-37-9	
350.1 Ammonia	Analytical Method: EPA 350.1 Rev 2.0 1993 Mod. Preparation Method: EPA 350.1 Rev 2.0 1993 Mod. Pace Analytical Services - Asheville							
Nitrogen, Ammonia	**4180**	mg/kg	60.9	1	01/03/24 23:44	01/04/24 06:18	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Rev 2.0 1993 Preparation Method: EPA 351.2 Rev 2.0 1993 Pace Analytical Services - Asheville							
Nitrogen, Kjeldahl, Total	**71700**	mg/kg	2690	10	01/04/24 16:13	01/05/24 04:48	7727-37-9	
353.2 Nitrogen, NO2/NO3	Analytical Method: EPA 353.2 Rev 2.0 1993 Preparation Method: EPA 353.2 Rev 2.0 1993 Pace Analytical Services - Asheville							
Nitrogen, NO2 plus NO3	ND	mg/kg	25.5	1	01/03/24 00:00	01/03/24 01:45		H1,H2
Nitrogen, Nitrate	ND	mg/kg	25.5	1	01/03/24 00:00	01/03/24 01:45	14797-55-8	
Nitrogen, Nitrite	ND	mg/kg	25.5	1	01/03/24 00:00	01/03/24 01:45	14797-65-0	H1,H2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 2205084
QC Batch Method: 8151A
Analysis Method: EPA 8151A
Analysis Description: Chlorinated Herb. (GC) 8151A
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92706115001

METHOD BLANK: R4022963-1 Matrix: Solid
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.00200	01/13/24 01:01	
2,4-D	mg/L	ND	0.00200	01/13/24 01:01	
2,4-DCAA (S)	%	68.4	14.0-158	01/13/24 01:01	

LABORATORY CONTROL SAMPLE: R4022963-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	0.0500	0.0378	75.6	50.0-125	P9
2,4-D	mg/L	0.0500	0.0483	96.6	50.0-120	
2,4-DCAA (S)	%			68.2	14.0-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4023858-1 R4023858-2

Parameter	Units	L1685972-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	mg/L	ND	0.0500	0.0500	0.0499	0.0605	99.8	121	50.0-125	19.2	20	E,P9
2,4-D	mg/L	ND	0.0500	0.0500	0.0593	0.0714	119	143	50.0-120	18.5	20	E,MH

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 823439
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92706115001

METHOD BLANK: 4259846 Matrix: Solid
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.9	01/08/24 17:28	
Barium	mg/kg	ND	0.96	01/08/24 17:28	
Cadmium	mg/kg	ND	0.96	01/08/24 17:28	
Chromium	mg/kg	ND	0.96	01/08/24 17:28	
Lead	mg/kg	ND	2.4	01/08/24 17:28	
Selenium	mg/kg	ND	4.8	01/08/24 17:28	
Silver	mg/kg	ND	0.96	01/08/24 17:28	

LABORATORY CONTROL SAMPLE: 4259847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	96.2	81.4	85	80-120	
Barium	mg/kg	96.2	89.6	93	80-120	
Cadmium	mg/kg	96.2	89.0	93	80-120	
Chromium	mg/kg	96.2	90.9	95	80-120	
Lead	mg/kg	96.2	82.3	86	80-120	
Selenium	mg/kg	96.2	85.7	89	80-120	
Silver	mg/kg	96.2	89.7	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4259848 4259849

Parameter	Units	92705399001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	ND	45.4	45.4	41.9	42.5	92	93	75-125	1	20	
Barium	mg/kg	17.7	45.4	45.4	45.2	44.6	60	59	75-125	1	20	M1
Cadmium	mg/kg	0.48	45.4	45.4	43.9	43.1	96	94	75-125	2	20	
Chromium	mg/kg	0.81	45.4	45.4	43.9	43.5	95	94	75-125	1	20	
Lead	mg/kg	7.6	45.4	45.4	43.0	40.5	78	73	75-125	6	20	M1
Selenium	mg/kg	ND	45.4	45.4	45.9	48.7	101	107	75-125	6	20	
Silver	mg/kg	1.0	45.4	45.4	42.1	38.1	91	82	75-125	10	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 825746
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL TCLP
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92706115001

METHOD BLANK: 4269552 Matrix: Water
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.30	01/17/24 19:36	
Barium	mg/L	ND	0.50	01/17/24 19:36	
Cadmium	mg/L	ND	0.10	01/17/24 19:36	
Chromium	mg/L	ND	0.10	01/17/24 19:36	
Lead	mg/L	ND	0.25	01/17/24 19:36	
Selenium	mg/L	ND	0.40	01/17/24 19:36	
Silver	mg/L	ND	0.10	01/17/24 19:36	

LABORATORY CONTROL SAMPLE: 4270486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	10	10.0	100	80-120	
Barium	mg/L	10	9.5	95	80-120	
Cadmium	mg/L	10	10	100	80-120	
Chromium	mg/L	10	9.8	98	80-120	
Lead	mg/L	10	9.8	98	80-120	
Selenium	mg/L	10	10.2	102	80-120	
Silver	mg/L	10	9.8	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4270484 4270485

Parameter	Units	92706644003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	10	10	9.8	9.9	97	99	75-125	1	20	
Barium	mg/L	ND	10	10	9.7	9.9	97	99	75-125	2	20	
Cadmium	mg/L	ND	10	10	9.8	9.8	98	98	75-125	0	20	
Chromium	mg/L	0.30	10	10	9.8	9.8	95	95	75-125	1	20	
Lead	mg/L	ND	10	10	9.7	9.9	97	99	75-125	2	20	
Selenium	mg/L	ND	10	10	9.6	9.5	96	95	75-125	1	20	
Silver	mg/L	ND	10	10	9.7	9.8	97	98	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 825725
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury TCLP, ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92706115001

METHOD BLANK: 4269552 Matrix: Water
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0050	01/16/24 14:44	

LABORATORY CONTROL SAMPLE: 4270380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.017	0.015	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4270378 4270379

Parameter	Units	92706644004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.017	0.017	0.017	0.015	98	89	75-125	9	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 823629
QC Batch Method: EPA 7471B
Analysis Method: EPA 7471B
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92706115001

METHOD BLANK: 4260707 Matrix: Solid
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.25	01/05/24 12:40	

LABORATORY CONTROL SAMPLE: 4260708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.32	0.32	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4260709 4260710

Parameter	Units	92705483001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.47	0.44	0.45	0.44	93	96	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 822711
QC Batch Method: EPA 9045D
Analysis Method: EPA 9045D
Analysis Description: 9045 pH
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92706115001

SAMPLE DUPLICATE: 4256622

Parameter	Units	92706036004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.5	6.4	2	10	H3

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 823394
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV TCLP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92706115001

METHOD BLANK: 4259548 Matrix: Water
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	01/04/24 10:43	
1,2-Dichloroethane	ug/L	ND	5.0	01/04/24 10:43	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/04/24 10:43	
2-Butanone (MEK)	ug/L	ND	10.0	01/04/24 10:43	
Benzene	ug/L	ND	5.0	01/04/24 10:43	
Carbon tetrachloride	ug/L	ND	5.0	01/04/24 10:43	
Chlorobenzene	ug/L	ND	5.0	01/04/24 10:43	
Chloroform	ug/L	ND	5.0	01/04/24 10:43	
Tetrachloroethene	ug/L	ND	5.0	01/04/24 10:43	
Trichloroethene	ug/L	ND	5.0	01/04/24 10:43	
Vinyl chloride	ug/L	ND	5.0	01/04/24 10:43	
1,2-Dichloroethane-d4 (S)	%	92	70-130	01/04/24 10:43	
4-Bromofluorobenzene (S)	%	101	70-130	01/04/24 10:43	
Toluene-d8 (S)	%	100	70-130	01/04/24 10:43	

LABORATORY CONTROL SAMPLE: 4259547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	21.9	110	69-131	
1,2-Dichloroethane	ug/L	20	22.5	113	70-130	
1,4-Dichlorobenzene	ug/L	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	40	37.0	93	67-133	
Benzene	ug/L	20	22.2	111	70-130	
Carbon tetrachloride	ug/L	20	21.8	109	70-130	
Chlorobenzene	ug/L	20	20.5	103	70-130	
Chloroform	ug/L	20	23.2	116	70-130	
Tetrachloroethene	ug/L	20	21.3	106	70-130	
Trichloroethene	ug/L	20	22.0	110	70-130	
Vinyl chloride	ug/L	20	19.9	100	66-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4259549 4259550

Parameter	Units	92705849001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	20	20	ND	ND	80	88	64-162		30	
1,2-Dichloroethane	ug/L	ND	20	20	ND	ND	71	76	68-145		30	
1,4-Dichlorobenzene	ug/L	ND	20	20	ND	ND	81	69	70-140		30	M1
2-Butanone (MEK)	ug/L	ND	40	40	ND	ND	72	66	57-156		30	
Benzene	ug/L	ND	20	20	ND	ND	66	74	68-144		30	M1
Carbon tetrachloride	ug/L	ND	20	20	ND	ND	46	62	70-147		30	M1
Chlorobenzene	ug/L	ND	20	20	ND	ND	65	74	70-143		30	M1
Chloroform	ug/L	ND	20	20	ND	ND	65	86	67-148		30	M1
Tetrachloroethene	ug/L	ND	20	20	ND	ND	62	63	70-145		30	M1
Trichloroethene	ug/L	ND	20	20	ND	ND	66	67	70-152		30	M1
Vinyl chloride	ug/L	ND	20	20	ND	ND	59	66	51-178		30	
1,2-Dichloroethane-d4 (S)	%						111	110	70-130			
4-Bromofluorobenzene (S)	%						101	102	70-130			
Toluene-d8 (S)	%						104	102	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 823127
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E
Analysis Description: 8270E TCLP MSSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92706115001

METHOD BLANK: 4257077 Matrix: Water
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	50.0	01/05/24 15:16	
2,4,5-Trichlorophenol	ug/L	ND	50.0	01/05/24 15:16	
2,4,6-Trichlorophenol	ug/L	ND	50.0	01/05/24 15:16	
2,4-Dinitrotoluene	ug/L	ND	50.0	01/05/24 15:16	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	01/05/24 15:16	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	01/05/24 15:16	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	01/05/24 15:16	
Hexachlorobenzene	ug/L	ND	50.0	01/05/24 15:16	
Hexachloroethane	ug/L	ND	50.0	01/05/24 15:16	
Nitrobenzene	ug/L	ND	50.0	01/05/24 15:16	
Pentachlorophenol	ug/L	ND	100	01/05/24 15:16	
Pyridine	ug/L	ND	50.0	01/05/24 15:16	
2,4,6-Tribromophenol (S)	%	109	10-166	01/05/24 15:16	
2-Fluorobiphenyl (S)	%	75	10-130	01/05/24 15:16	
2-Fluorophenol (S)	%	74	10-130	01/05/24 15:16	
Nitrobenzene-d5 (S)	%	92	10-133	01/05/24 15:16	
Phenol-d6 (S)	%	57	10-130	01/05/24 15:16	
Terphenyl-d14 (S)	%	122	10-193	01/05/24 15:16	

LABORATORY CONTROL SAMPLE: 4258329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	202	40	10-130	
2,4,5-Trichlorophenol	ug/L	500	342	68	36-150	
2,4,6-Trichlorophenol	ug/L	500	313	63	30-151	
2,4-Dinitrotoluene	ug/L	500	355	71	46-160	
2-Methylphenol(o-Cresol)	ug/L	500	337	67	32-130	
3&4-Methylphenol(m&p Cresol)	ug/L	500	309	62	29-130	
Hexachloro-1,3-butadiene	ug/L	500	239	48	10-130	
Hexachlorobenzene	ug/L	500	382	76	40-139	
Hexachloroethane	ug/L	500	211	42	10-130	
Nitrobenzene	ug/L	500	343	69	33-136	
Pentachlorophenol	ug/L	1000	505	50	19-156	
Pyridine	ug/L	500	298	60	10-130	
2,4,6-Tribromophenol (S)	%			102	10-166	
2-Fluorobiphenyl (S)	%			78	10-130	
2-Fluorophenol (S)	%			69	10-130	
Nitrobenzene-d5 (S)	%			93	10-133	
Phenol-d6 (S)	%			53	10-130	

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REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

LABORATORY CONTROL SAMPLE: 4258329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			103	10-193	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4258330 4258331

Parameter	Units	92706115001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	500	500	112	166	22	33	10-130	39	30	R1
2,4,5-Trichlorophenol	ug/L	ND	500	500	313	295	63	59	10-174	6	30	
2,4,6-Trichlorophenol	ug/L	ND	500	500	301	278	60	56	10-173	8	30	
2,4-Dinitrotoluene	ug/L	ND	500	500	361	321	72	64	29-168	12	30	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	247	275	49	55	10-130	11	30	
3&4-Methylphenol(m&p Cresol)	ug/L	1130	500	500	1030	1060	-21	-13	10-132	3	30	M1
Hexachloro-1,3-butadiene	ug/L	ND	500	500	98.5	150	20	30	10-130	42	30	R1
Hexachlorobenzene	ug/L	ND	500	500	318	287	64	57	27-145	10	30	
Hexachloroethane	ug/L	ND	500	500	103	158	21	32	10-130	42	30	R1
Nitrobenzene	ug/L	ND	500	500	253	279	51	56	10-145	10	30	
Pentachlorophenol	ug/L	ND	1000	1000	831	755	83	75	10-178	10	30	
Pyridine	ug/L	ND	500	500	11J	234	2	47	10-130		30	M1
2,4,6-Tribromophenol (S)	%						84	65	10-166			
2-Fluorobiphenyl (S)	%						51	46	10-130			
2-Fluorophenol (S)	%						45	47	10-130			
Nitrobenzene-d5 (S)	%						59	61	10-133			
Phenol-d6 (S)	%						37	37	10-130			
Terphenyl-d14 (S)	%						95	67	10-193			

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REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 822909
QC Batch Method: SW-846
Analysis Method: SW-846
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92706115001

SAMPLE DUPLICATE: 4257449

Parameter	Units	92706135001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	95.0	95.1	0	25	N2

SAMPLE DUPLICATE: 4257450

Parameter	Units	92706115001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	84.5	84.7	0	25	N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 2205361
QC Batch Method: 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92706115001

METHOD BLANK: R4024263-1 Matrix: Solid
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	ND		01/12/24 19:08	

LABORATORY CONTROL SAMPLE: R4024263-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	47.1	94.1	90.0-110	

SAMPLE DUPLICATE: R4024263-3

Parameter	Units	L1694664-02 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	1.45	1.47	1.37	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 2208314
QC Batch Method: 9071B
Analysis Method: EPA 9071B
Analysis Description: Wet Chemistry 9071B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92706115001

METHOD BLANK: R4023708-1 Matrix: Solid
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	100	01/17/24 17:38	

LABORATORY CONTROL SAMPLE & LCSD: R4023708-2 R4023708-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	2000	1700	1650	85.0	82.5	80.0-120	2.99	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 825526
QC Batch Method: EPA 9095B
Analysis Method: EPA 9095B
Analysis Description: 9095 PAINT FILTER LIQUID TEST
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92706115001

SAMPLE DUPLICATE: 4269661

Parameter	Units	92706590001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids		PASS	PASS			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 823323
QC Batch Method: EPA 350.1 Rev 2.0 1993 Mod.
Analysis Method: EPA 350.1 Rev 2.0 1993 Mod.
Analysis Description: 350.1 Ammonia
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92706115001

METHOD BLANK: 4259312 Matrix: Solid
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	10.0	01/04/24 06:11	

LABORATORY CONTROL SAMPLE: 4259313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	500	480	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4259314 4259315

Parameter	Units	92705908001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/kg	752	486	504	1310	1160	115	81	90-110	12	10	M1,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 823445
QC Batch Method: EPA 351.2 Rev 2.0 1993
Analysis Method: EPA 351.2 Rev 2.0 1993
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92706115001

METHOD BLANK: 4259868 Matrix: Solid
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	01/05/24 03:41	

LABORATORY CONTROL SAMPLE: 4259869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	1030	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4259870 4259871

Parameter	Units	92705908001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	68500	1940	1940	70700	76500	110	409	90-110	8	10	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

QC Batch: 823047
QC Batch Method: EPA 353.2 Rev 2.0 1993
Analysis Method: EPA 353.2 Rev 2.0 1993
Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92706115001

METHOD BLANK: 4258002 Matrix: Solid
Associated Lab Samples: 92706115001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/kg	ND	4.0	01/03/24 01:43	
Nitrogen, Nitrite	mg/kg	ND	4.0	01/03/24 01:43	
Nitrogen, NO2 plus NO3	mg/kg	ND	4.0	01/03/24 01:43	

LABORATORY CONTROL SAMPLE: 4258003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/kg	15	15.1	101	90-110	
Nitrogen, Nitrite	mg/kg	10	10.0	100	90-110	
Nitrogen, NO2 plus NO3	mg/kg	25	25.2	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4258004 4258005

Parameter	Units	92706115001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/kg	ND	95	96.9	92.4	93.6	97	97	90-110	1	10	
Nitrogen, Nitrite	mg/kg	ND	63.3	64.6	63.0	64.0	91	91	90-110	2	10	H1
Nitrogen, NO2 plus NO3	mg/kg	ND	159	161	155	158	97	97	90-110	1	10	H1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H1	Analysis conducted outside the recognized method holding time.
H2	Extraction or preparation conducted outside EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P9	RPD between the primary and confirmatory analysis exceeded 40%.
R1	RPD value was outside control limits.
T3	Insufficient sample received from client to perform the analysis per EPA method requirements.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pellitizing Sludge Cake
Pace Project No.: 92706115

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92706115001	**Pellitizing Sludge Cake**	8151A	2205084	EPA 8151A	2205084
92706115001	**Pellitizing Sludge Cake**	EPA 3050B	823439	EPA 6010D	823546
92706115001	**Pellitizing Sludge Cake**	EPA 3010A	825746	EPA 6010D	825819
92706115001	**Pellitizing Sludge Cake**	EPA 7470A	825725	EPA 7470A	825741
92706115001	**Pellitizing Sludge Cake**	EPA 7471B	823629	EPA 7471B	823659
92706115001	**Pellitizing Sludge Cake**	EPA 9045D	822711		
92706115001	**Pellitizing Sludge Cake**	EPA 3510C	823127	EPA 8270E	823730
92706115001	**Pellitizing Sludge Cake**	EPA 8260D	823394		
92706115001	**Pellitizing Sludge Cake**	SW-846	822909		
92706115001	**Pellitizing Sludge Cake**	2540 G	2205361	SM 2540G	2205361
92706115001	**Pellitizing Sludge Cake**	9071B	2208314	EPA 9071B	2208314
92706115001	**Pellitizing Sludge Cake**	EPA 9095B	825526		
92706115001	**Pellitizing Sludge Cake**	TKN+NO3+NO2 Calculation	825789		
92706115001	**Pellitizing Sludge Cake**	EPA 350.1 Rev 2.0 1993 Mod.	823323	EPA 350.1 Rev 2.0 1993 Mod.	823337
92706115001	**Pellitizing Sludge Cake**	EPA 351.2 Rev 2.0 1993	823445	EPA 351.2 Rev 2.0 1993	823610
92706115001	**Pellitizing Sludge Cake**	EPA 353.2 Rev 2.0 1993	823047	EPA 353.2 Rev 2.0 1993	823053

CLAYTON COUNTY Water AUTHORITY

Water Reclamation Laboratory
688 Flint River Rd.
Jonesboro, GA. 30238
(770) 478-7496 Fax (770) 478-7301
Permit #: GA0038423 / GA02-008

Date	Time	Sample Description	Pres.	Composite/Grab	Analysis										
					503 Parameters	Paint Filter	TPH (Total petroleum Hydrocarbons	TCLP Metals	TCLP Volatiles	TCLP Semi-Volatiles	Total Metals	Total Phosphorus			
12-29-23	9:25	Pelletizing Sludge Cake	Ice	G	X	X	X	X	X	X	X	X			

Sampled By: Joshua West Date: 12-29-23 Time: 9:25

Relinquished By: Joshua West Date: 12-29-23 Time: 10:13

Received By: [signature] Date: 12-29-23 Time: 10/3

Relinquished By: Date: Time:

Received By: Date: Time:

Additional Information:

WO# : 92706115

92706115

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

aboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mechanicsville** ☐ **Atlanta** ☑ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: Clayton County Water Authority

Project #

WO#: 92706115

PM: MP **Due Date: 01/10/24**

CLIENT: GA-ClaytonWW

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 11/14 JCL

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:

☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 19.5 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 19.8

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☑ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: SL				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92706115

PM: MP Due Date: 01/10/24

CLIENT: GA-ClaytonWW

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	2 pH C	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																									2				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

ATTACHMENT B

Special Waste Profile – Recertification

REPUBLIC SERVICES

Sustainability in Action

10/4/2022

Clayton County Water Authority
Attn: Kendra Stanciel
688 Flint River Rd.
Jonesboro, Ga 30238

RE: **Grease, Grit, Sludge**
Profile Waste Code Number
3708 11 0819
Expiration Date – **10/21/2025**

Dear Kendra:

Thanks for allowing Republic Services, Inc. the opportunity to serve you**.**

The above- mentioned waste stream has been recertified and approved for continuous disposal at Pine Ridge Landfill.

In order to handle this waste more efficiently, your cooperation with the following procedures will be greatly appreciated:

1. A manifest must accompany each load; it must be accurately completed and signed before shipment.

Again, thank you for your cooperation and consideration in using Pine Ridge Landfill.

Should you have any questions regarding this matter, please do not hesitate in giving me a call.

Sincerely,

Paula Adams

Paula Adams
Republic Services, Inc.
Special Waste Sales Executive
padams@republicservices.com

ATTACHMENT C

Vendor Information Form

CLAYTON COUNTY WATER AUTHORITY
FINANCE DEPARTMENT
1600 BATTLE CREEK ROAD | MORROW, GEORGIA 30260
Phone: (770) 960-5880 | Web Site: www.ccwa.us

VENDOR INFORMATION FORM

Purpose of this Form: The *Vendor Information Form* is used by the Clayton County Water Authority (CCWA) to add Vendors/Suppliers to its financial database system and add business designations when applicable.

Important Note: What name will appear on the Invoice? Invoice name shall be reflected on the *Vendor Information Form* and match the *W-9 Form*.

PURCHASING DATA			
NIGP CODE(s):		CCWA REQUESTING DEPARTMENT CONTACT:	
VENDOR INFORMATION			
VENDOR NAME:			
PRINCIPAL CONTACT:		EMAIL ADDRESS:	PHONE NO.
MAILING ADDRESS		REMIT TO ADDRESS	
Street		Street	
City		City	
State	Zip Code	State	Zip Code
PAYMENT REMITTANCE INFORMATION			
PAYMENT TERMS: ☐ NET 30		**PAYMENT TYPE:** ☐ PAPER CHECK ☐ ACH PAYMENT (If selected, *ACH Authorization Form* will be e-mailed to the awarded vendor).	
BUSINESS CLASSIFICATION			
☐ CCWA SLBE ☐ WBE ☐ MBE ☐ DBE ☐ Other SBE ☐ Veteran-Owned Business			

FOR OFFICE USE ONLY: CCWA Procurement & Contract Specialist shall e-mail the awarded vendor's *Vendor Information Form* and *W-9 Form* to ccwa_newvendorrequest@ccwa.us.

ATTACHMENT D

W-9 Form

Form **W-9**
(Rev. March 2024)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give form to the requester. Do not send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See ***Specific Instructions*** on page 3.

1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)

2 Business name/disregarded entity name, if different from above.

3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor ☐ C corporation ☐ S corporation ☐ Partnership ☐ Trust/estate

☐ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) . . . .

Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) _____

3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions . . . . . ☐

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____

(Applies to accounts maintained outside the United States.)

5 Address (number, street, and apt. or suite no.). See instructions.

Requester's name and address (optional)

6 City, state, and ZIP code

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

			–		–				

or

Employer identification number

		–							

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	**Signature of U.S. person**	**Date**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

must obtain your correct taxpayer identification number (TIN), which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

• Form 1099-INT (interest earned or paid).

• Form 1099-DIV (dividends, including those from stocks or mutual funds).

• Form 1099-MISC (various types of income, prizes, awards, or gross proceeds).

• Form 1099-NEC (nonemployee compensation).

• Form 1099-B (stock or mutual fund sales and certain other transactions by brokers).

• Form 1099-S (proceeds from real estate transactions).

• Form 1099-K (merchant card and third-party network transactions).

• Form 1098 (home mortgage interest), 1098-E (student loan interest), and 1098-T (tuition).

• Form 1099-C (canceled debt).

• Form 1099-A (acquisition or abandonment of secured property).

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

Caution: If you don't return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding*, later.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued);

2. Certify that you are not subject to backup withholding; or

3. Claim exemption from backup withholding if you are a U.S. exempt payee; and

4. Certify to your non-foreign status for purposes of withholding under chapter 3 or 4 of the Code (if applicable); and

5. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting is correct. See *What Is FATCA Reporting*, later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

• An individual who is a U.S. citizen or U.S. resident alien;

• A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;

• An estate (other than a foreign estate); or

• A domestic trust (as defined in Regulations section 301.7701-7).

Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding. Payments made to foreign persons, including certain distributions, allocations of income, or transfers of sales proceeds, may be subject to withholding under chapter 3 or chapter 4 of the Code (sections 1441–1474). Under those rules, if a Form W-9 or other certification of non-foreign status has not been received, a withholding agent, transferee, or partnership (payor) generally applies presumption rules that may require the payor to withhold applicable tax from the recipient, owner, transferor, or partner (payee). See Pub. 515, Withholding of Tax on Nonresident Aliens and Foreign Entities.

The following persons must provide Form W-9 to the payor for purposes of establishing its non-foreign status.

• In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the disregarded entity.

• In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the grantor trust.

• In the case of a U.S. trust (other than a grantor trust), the U.S. trust and not the beneficiaries of the trust.

See Pub. 515 for more information on providing a Form W-9 or a certification of non-foreign status to avoid withholding.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person (under Regulations section 1.1441-1(b)(2)(iv) or other applicable section for chapter 3 or 4 purposes), do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515). If you are a qualified foreign pension fund under Regulations section 1.897(l)-1(d), or a partnership that is wholly owned by qualified foreign pension funds, that is treated as a non-foreign person for purposes of section 1445 withholding, do not use Form W-9. Instead, use Form W-8EXP (or other certification of non-foreign status).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a saving clause. Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if their stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first Protocol) and is relying on this exception to claim an exemption from tax on their scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include, but are not limited to, interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third-party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester;

2. You do not certify your TIN when required (see the instructions for Part II for details);

3. The IRS tells the requester that you furnished an incorrect TIN;

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only); or

5. You do not certify to the requester that you are not subject to backup withholding, as described in item 4 under "*By signing the filled-out form*" above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate Instructions for the Requester of Form W-9 for more information.

See also *Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding*, earlier.

What Is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all U.S. account holders that are specified U.S. persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you are no longer tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

• **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note for ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040 you filed with your application.

• **Sole proprietor.** Enter your individual name as shown on your Form 1040 on line 1. Enter your business, trade, or "doing business as" (DBA) name on line 2.

• **Partnership, C corporation, S corporation, or LLC, other than a disregarded entity.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

• **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. Enter any business, trade, or DBA name on line 2.

• **Disregarded entity.** In general, a business entity that has a single owner, including an LLC, and is not a corporation, is disregarded as an entity separate from its owner (a disregarded entity). See Regulations section 301.7701-2(c)(2). A disregarded entity should check the appropriate box for the tax classification of its owner. Enter the owner's name on line 1. The name of the owner entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2. If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, enter it on line 2.

Line 3a

Check the appropriate box on line 3a for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3a.

IF the entity/individual on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation.
• Individual or • Sole proprietorship	Individual/sole proprietor.
• LLC classified as a partnership for U.S. federal tax purposes or • LLC that has filed Form 8832 or 2553 electing to be taxed as a corporation	Limited liability company and enter the appropriate tax classification: P = Partnership, C = C corporation, or S = S corporation.
• Partnership	Partnership.
• Trust/estate	Trust/estate.

Line 3b

Check this box if you are a partnership (including an LLC classified as a partnership for U.S. federal tax purposes), trust, or estate that has any foreign partners, owners, or beneficiaries, and you are providing this form to a partnership, trust, or estate, in which you have an ownership interest. You must check the box on line 3b if you receive a Form W-8 (or documentary evidence) from any partner, owner, or beneficiary establishing foreign status or if you receive a Form W-9 from any partner, owner, or beneficiary that has checked the box on line 3b.

Note: A partnership that provides a Form W-9 and checks box 3b may be required to complete Schedules K-2 and K-3 (Form 1065). For more information, see the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

If you are required to complete line 3b but fail to do so, you may not receive the information necessary to file a correct information return with the IRS or furnish a correct payee statement to your partners or beneficiaries. See, for example, sections 6698, 6722, and 6724 for penalties that may apply.

Line 4 Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

• Generally, individuals (including sole proprietors) are not exempt from backup withholding.

• Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.

• Corporations are not exempt from backup withholding for payments made in settlement of payment card or third-party network transactions.

• Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space on line 4.

1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2).

2—The United States or any of its agencies or instrumentalities.

3—A state, the District of Columbia, a U.S. commonwealth or territory, or any of their political subdivisions or instrumentalities.

4—A foreign government or any of its political subdivisions, agencies, or instrumentalities.

5—A corporation.

6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or territory.

7—A futures commission merchant registered with the Commodity Futures Trading Commission.

8—A real estate investment trust.

9—An entity registered at all times during the tax year under the Investment Company Act of 1940.

10—A common trust fund operated by a bank under section 584(a).

11—A financial institution as defined under section 581.

12—A middleman known in the investment community as a nominee or custodian.

13—A trust exempt from tax under section 664 or described in section 4947.

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
• Interest and dividend payments	All exempt payees except for 7.
• Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
• Barter exchange transactions and patronage dividends	Exempt payees 1 through 4.
• Payments over $600 required to be reported and direct sales over $5,000[1]	Generally, exempt payees 1 through 5.[2]
• Payments made in settlement of payment card or third-party network transactions	Exempt payees 1 through 4.

[1] See Form 1099-MISC, Miscellaneous Information, and its instructions.

[2] However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) entered on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37).

B—The United States or any of its agencies or instrumentalities.

C—A state, the District of Columbia, a U.S. commonwealth or territory, or any of their political subdivisions or instrumentalities.

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i).

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i).

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state.

G—A real estate investment trust.

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940.

I—A common trust fund as defined in section 584(a).

J—A bank as defined in section 581.

K—A broker.

L—A trust exempt from tax under section 664 or described in section 4947(a)(1).

M—A tax-exempt trust under a section 403(b) plan or section 457(g) plan.

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, enter "NEW" at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have, and are not eligible to get, an SSN, your TIN is your IRS ITIN. Enter it in the entry space for the Social security number. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester*, later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at *www.SSA.gov*. You may also get this form by calling 800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/EIN*. Go to *www.irs.gov/Forms* to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to *www.irs.gov/OrderForms* to place an order and have Form W-7 and/or Form SS-4 mailed to you within 15 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and enter "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, you will generally have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon. See also *Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding*, earlier, for when you may instead be subject to withholding under chapter 3 or 4 of the Code.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third-party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account[1]
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor[2]
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee[1]
b. So-called trust account that is not a legal or valid trust under state law	The actual owner[1]
6. Sole proprietorship or disregarded entity owned by an individual	The owner[3]
7. Grantor trust filing under Optional Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))**	The grantor*
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity[4]
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing Form 1041 or under the Optional Filing Method 2, requiring Form 1099 (see Regulations section 1.671-4(b)(2)(i)(B))**	The trust

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name on line 1, and enter your business or DBA name, if any, on line 2. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

[4] List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.)

* **Note:** The grantor must also provide a Form W-9 to the trustee of the trust.

** For more information on optional filing methods for grantor trusts, see the Instructions for Form 1041.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information, such as your name, SSN, or other identifying information, without your permission to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax return preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity, or a questionable credit report, contact the IRS Identity Theft Hotline at 800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 877-777-4778 or TTY/TDD 800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to *phishing@irs.gov*. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 800-366-4484. You can forward suspicious emails to the Federal Trade Commission at *spam@uce.gov* or report them at *www.ftc.gov/complaint*. You can contact the FTC at *www.ftc.gov/idtheft* or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see *www.IdentityTheft.gov* and Pub. 5027.

Go to *www.irs.gov/IdentityTheft* to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

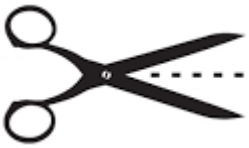
Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and territories for use in administering their laws. The information may also be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payors must generally withhold a percentage of taxable interest, dividends, and certain other payments to a payee who does not give a TIN to the payor. Certain penalties may also apply for providing false or fraudulent information.

ATTACHMENT E

Bid Package Label

PACKAGE LABEL

Please use the label below to properly mark your proposal package, which will help route it to the proper location timely.



DELIVER TO: **CLAYTON COUNTY WATER AUTHORITY**
1600 Battle Creek Road
Morrow, GA 30260
***Attention*: PROCUREMENT**

RESIDUAL BIOSOLIDS MANAGEMENT
2024-WR-23

Due Date and Time: Tuesday, August 20, 2024, at 3:00 p.m.. local time

VENDOR NAME: _____

Address: _____

City, State, Zip: _____

GA Utility License No: _____
(if applicable)