EXHIBIT D

BOARD OF COUNTY COMMISSIONERS
Escambia County, Florida

AI-6637 **Public Hearings 13.**
BCC Regular Meeting
Meeting Date: 08/21/2014
Issue: 5:33 p.m. Public Hearing - Permit Renewal - Longleaf C&D Disposal Facility
From: Pat Johnson
Organization: Solid Waste
CAO Approval:

RECOMMENDATION:

5:33 p.m. Public Hearing for consideration of the renewal of a Permit to Construct and/or Operate a Construction and Demolition Debris Facility for Longleaf C&D Disposal Facility.

Recommendation: That the Board take the following action regarding the renewal of a Permit to Construct and/or Operate a Construction and Demolition Debris Facility for Longleaf C&D Disposal Facility, located at 2023 Longleaf Drive, Pensacola, Florida, owned by Waste Management, Inc.:

A. Ratify the scheduling and advertising of the 5:33 p.m., Public Hearing on August 21, 2014;

B. Authorize the renewal of a Permit to Construct and/or Operate a Construction and Demolition Debris Facility for Longleaf C&D Disposal Facility, located at 2023 Longleaf Drive, Pensacola, Florida, owned by Waste Management, Inc.; and

C. Authorize the Chairman to sign the Permit.

[Funding: Fund 401, Solid Waste Fund, Account Number 343402]

BACKGROUND:

At the June 3, 2014, 5:31 p.m. Public Hearing, the Board of County Commissioners voted unanimously to remand back to staff, the recommendation for the renewal of a Permit to Construct and/or Operate a Construction and Demolition Debris Facility for Longleaf C&D Disposal Facility. The Board also requested staff to provide results of an air quality test, and to get soil and water samples, so that citizens could be assured as to the conditions of the site.

The Escambia County Code of Ordinances Chapter 82, stipulates that each entity must obtain a permit from the Solid Waste Management Department in order to operate an infill facility in Escambia County. The Department Director of Solid Waste Management has determined that the facility satisfies the permitting criteria for an infill facility. A copy of the proposed permit renewal is attached.

EXHIBIT
D
PENSAD 800-631-6989

BUDGETARY IMPACT:

A Solid Waste Management Permit Application Fee of $1,000.00 has been deposited into the Fund 401, Solid Waste, Account Number 343402.

LEGAL CONSIDERATIONS/SIGN-OFF:

The County Attorney's Office has reviewed the permit for form and legal sufficiency by legal signoff.

PERSONNEL:

N/A

POLICY/REQUIREMENT FOR BOARD ACTION:

Ordinance 2006-24, enacted March 16, 2006, requires a Permit to Construct, Operate, Modify or Close a Construction and Demolition Debris or Land Clearing Disposal Management Facility.

IMPLEMENTATION/COORDINATION:

Following approval of this recommendation, a Permit shall be issued and distributed accordingly.

Attachments

Longleaf Permit 2014-2015
Longleaf Application 2014
Longleaf Comp Plan Review
Air Data Info 08_11_2014
Air Data Info 08_08_2014
Semi Ann Water Qual. Sampling Log
Inspection 07_14_2014
FDEP Onsite Inspection 06_25_2014
H2S Monitoring Log_WM
Longleaf Pit Map

Solid Waste Management Department
13009 Beulah Road
Cantonment, FL 32533
Phone: 850.937.2160

Patrick T. Johnson, Department Director

Permit to Construct and/or Operate a Construction and Demolition Debris Facility

Permittee:	Waste Management, Inc.
Facility Name:	Longleaf C&D Disposal Facility
Facility Type:	In-fill facility as reclamation activity for borrow pits existing prior to September 16, 2004
File Number:	2006-04-001CDD
Original Date of Issue:	April 26, 2006
Renewal Date:	August 21, 2014
Expiration Date:	August 20, 2015
Development Review #:	41-1S-30-1000-000-000
Date:	05/30/2001
Total Acreage of Facility:	40 Acres
Total Area Licensed for Disposal:	40 Acres

This permit is issued under the provision of Chapter 82, Article V. Division 3, Sections 82-224 through 82-240 of the Escambia County Code of Ordinances. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown in the application and approved drawing(s), plans, and other documents attached hereto or on file with the Division of Solid Waste Management, hereinafter called Department, and made a part hereof and specifically described as follows:

To construct and operate a Construction and Demolition Debris disposal facility located on a 40-acre site on Longleaf Drive east of SR297 in Escambia County Florida. Operation of the facility shall be in accordance with the permit renewal application received on March 25, 2014, and the general and specific conditions required in this permit.

General Permit Conditions – All Facilities

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to the authority of Chapter 82, Article V, Division 3, Sections 82-224 through 82-240, Escambia County Code of Ordinances. Permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. This permit does not constitute a waiver of or approval of any other federal, state or other county permit or license that may be required for other aspects of the total project, which are not addressed in the permit.

4. This permit does not relieve Permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted facility or from penalties therefore; nor does it allow Permittee to cause pollution in contravention of Florida Statues, County and Department rules.

5. Permittee shall properly operate and maintain the facility and systems of treatment and control, where applicable, that are installed and used by Permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit.

6. Permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

    a. Inspecting the facility, equipment, practices or operations regulated or required under this permit;
    b. Sampling and monitoring any substance or parameters at any location reasonably necessary to assure compliance with this permit or Department rules, and,
    c. Having access to and copying any records that must be kept under the conditions of this permit.

7. If for any reason, Permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, Permittee shall immediately provide the Department with the following information:

   a. A description of and cause of noncompliance, and
   b. The period of noncompliance, including exact dates and times; or if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

8. In accepting this permit, Permittee understands and agrees that all records, notes monitoring data and other information relating to the construction or operation of the permitted facility which are submitted to the department , may be used by the Department as evidence in any enforcement case involving the permitted facility arising under the Florida Statutes or County or Department rules.

9. Permittee agrees to comply with changes in Department rules after a reasonable time for compliance.

10. This permit is transferable only upon Department approval in accordance with applicable county rules. Permittee shall be liable for any noncompliance of the permitted activity until the Department approves the transfer of permit.

11. This permit is required to be kept at the facility, which is permitted during the entire period of construction or operation.

12. Permittee shall submit all comments or correspondence required by this permit to:

Patrick T. Johnson, Department Director
Solid Waste Management
13009 Beulah Road
Cantonment, FL 32533

Phone 850-937-2160
E-mail Pat_Johnson@co.escambia.fl.us

Copy to:

Doyle O. Butler
Engineering Project Coordinator
Department of Solid Waste Management
13009 Beulah Road
Cantonment, FL 32533

Phone 850-937-2160
E-mail DOBUTLER@co.escambia.fl.us

Specific Permit Conditions – Infill Facilities

1. **Facility Setback.**
Footprint setback shall be a minimum of 100 feet from the property boundary and shall be maintained throughout the operational life of the facility. Setback shall be applicable to all permitted disposal areas including temporary storage and / or drop-off points, equipment storage or maintenance areas and entrance and exit points. Section 82.226. (3)(c).

2. **Aerial and Vertical Height.**
Aerial and vertical height shall be limited to the average grade before commencement of operations with allowance for closure and capping to promote positive drainage and prevent ponding and stormwater intrusion into the debris pile. Section 82.226. (3)(d).

3. **Fencing and Access Control.**
Fencing is required on all property boundaries. Any boundary that abuts developed property or a public road shall be fenced with a minimum of six (6) feet of wood or other Department approved material that prevents visible observation of the permitted disposal area. Vegetative buffering in sufficient quantity may be deemed a substitute for solid fencing. Entrance and exit points shall be equipped with gates and locks to prevent unauthorized access during periods when the facility is closed. Natural barriers may be used for access control in lieu of fencing where deemed appropriate by the Department. Section 82.227. (3)(a).

4. **Cover Material and Application**
Cover shall be used at least bi-weekly on working faces in sufficient quantity and type to deprive debris of oxygen, to minimize the risk of fire and prevent emission of objectionable odors. Section 82.227. (3)(b).

5. **Operational Hours**
Operations are limited to Monday through Friday between 7:00 a.m. and 5:00 p.m. and Saturday 7:00 a.m. to 3:00 p.m. Notwithstanding the above, cover may be applied after the operational hours but in no case after sundown. Operations are prohibited on Thanksgiving, Christmas, New Year's Day and July 4th. Section 82.227. (3)(e).

6. **Volume Reduction**
Volume reduction may ***not*** be accomplished by means of chipping, shredding, or otherwise processing the debris. Volume reduction may only occur by picking or removing recyclables from the waste stream prior to disposal. Section 82.227. (3)(d).

7. **Dust Suppression.**
Active dust suppression is required to prevent dust migration off site. Section 82.227. (3)(f).

8. **Nuisance**
No person shall cause, suffer, allow or permit the discharge into the air of dust, fumes, gas, mist, odor, smoke or vapor, or any combination thereof, so as to constitute a nuisance as defined in county ordinance 2006-24. Section 82.225 (cc) and Section 82.227. (3)(c).

9. **Queuing**
Queuing or staging of vehicles, containers, or equipment on public roads or rights of way is prohibited. Section 82.227. (3)(g).

10. **Commercial General Liability Coverage**
The Permittee shall maintain Commercial General Liability insurance with One Million Dollars ($1,000,000.00) per occurrence and aggregate limits, including coverage parts of bodily injury, property damage, personal injury, product and completed operation, contractual liability and all additional requirements as specified in Section 86-233.

11. **Litter, Sediment and Traffic Control; Road Maintenance.**
The Permittee shall be responsible for maintaining the full length of road frontage and additional length of adjacent roadway as listed below, free from all liter and sediment generated as a result of transporting material into or out of the facility and all additional requirements as specified in Section 82.234.

Longleaf Drive and Kemp Road, .5 miles either side of facility entrance.

12. **Abatement Procedures**
Permittee shall consent to imposition of summary abatement procedures as hereinafter set forth in County Ordinance 2006-24, Section 82-240.

13. **Required Reports**
Permittee shall submit quarterly reports of tonnage of material received, average number of disposal vehicles enter the facility per month and remaining capacity.

14. **Permit Renewals**
Permittee shall submit an application, on Department provided forms, no later than 60 days before the expiration of the current permit. Applications submitted in accordance with this section, even if incomplete, shall be deemed complete, and the current permit will be extended until corrections are submitted. Notwithstanding the above, in no instance will permits be extended more than 180 days past the expiration date of the permit.

The permanent Department identification for this facility is 2006-04-001CDD. Please cite this number on all reports and correspondence concerning this facility. The Department telephone number for reporting emergencies is:

Monday – Friday: 850.937.2160
Weekends/Holidays: 850.937.2182

BOARD OF COUNTY COMMISSIONERS
ESCAMBIA COUNTY, FLORIDA

By:_____
Lumon J. May, Chairman

ATTEST: PAM CHILDERS
Clerk of the Circuit Court

By:_____
Deputy Clerk

This document approved as to form and legal sufficiency.
By: _____
Title: Asst. County Attorney
Date: Aug. 13, 2014

BCC Approved: _____

BCC Authorization Date: _____

Permit Issue Date: August 21, 2014

Permit Expiration Date: August 20, 2015

Issuing Officer: Patrick T. Johnson
Department Director, Solid Waste Management

_____
Signature

_____
Date

ESCAMBIA COUNTY

DEPARTMENT OF SOLID WASTE MANAGEMENT

APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE A CONSTRUCTION AND DEMOLITION DEBRIS OR LAND CLEARING DISPOSAL MANAGEMENT FACILITY

April 13, 2006

BCC 5:33 PH

Escambia County
Department of Solid Waste Management
APPLICATION FOR A PERMIT TO CONSTRUCT,
OPERATE, MODIFY OR CLOSE A C&DD WASTE MANAGEMENT FACILITY

A. GENERAL INFORMATION

1. Type of facility (check all that apply):

[ ] Regional
[ ] Rural
[✓] Infill
[ ] Transfer
[ ] Land Clearing Debris (LCD)

2. Type of application:

[ ] Construction
[ ] Operation
[✓] Construction/Operation
[ ] Closure

3. Classification of application:

[ ] New
[✓] Renewal
[ ] Substantial Modification
[ ] Intermediate Modification
[ ] Minor Modification

4. Facility name: Longleaf C&D Disposal Facility

5. ID Number: 2006-4-001CDD

6. Facility location (main entrance): 2023 Longleaf Drive

Pensacola, FL 32505

7. Location coordinates:

Section: 41 Township: 1S Range: 30W

Latitude: 30 ° 29 ' 4 " Longitude: 87 ° 17 ' 0 "

8. Applicant name (operating authority): Longleaf C&D Disposal Facility, Inc.

Mailing address: 2023 Longleaf Drive, Pensacola, FL 32505
Street or P.O. Box City County Zip

Contact person: Robert Boykin Telephone: (850) 564-2825

Title: District Manager Email: rboykin@wm.com

9. Authorized agent/consultant: _____

Mailing address: _____
Street or P.O. Box City County Zip

Contact person: _____ Telephone: (___) _____

Title: _____ Email: _____

10. Landowner (if different than applicant): _____

Mailing address: _____
Street or P. O. Box City County Zip

Contact person: _____ Telephone: (___) _____

Email: _____

11. Date site will be ready to be inspected for completion: _____

12. Expected life of the facility: 27 years

13. Estimated costs:

Total Construction: $ 492,000 Closing Costs: $ 836,345.50

14. Anticipated construction starting and completion dates:

From: May 2006 To: December 2040

15. Expected volume or weight of waste to be received: 200 yds^3/day.

B. DISPOSAL FACILITY GENERAL INFORMATION

1. Provide brief description of disposal facility design and operations planned under this application:

See information provided with original permit application.

See information provided with original permit application.

See information provided with original permit application.

See information provided with original permit application.

2. Facility site supervisor: Robert Boykin

Title: District Manager Telephone: (850) 564-2825

Email: rboykin@wm.com

3. Disposal area: Total 27.2 acres; Used 9.3 acres; Available 17.9 acres

4. Security to prevent unauthorized use: [✓] Yes ☐ No

5. Charge for waste received: varies $/yds^3 _____ $/ton

6. Surrounding land use, zoning:

[✓]	Residential	[✓]	Industrial
[ ]	Agricultural	[ ]	None
[ ]	Commercial	[ ]	Other Describe: _____

7. Types of waste received:

[✓] C & D debris [ ] Land Clearing Debris

8. Attendant: [✓] Yes [ ] No Trained operator: [✓] Yes [ ] No

9. Spotters: [✓] Yes [ ] No Number of spotters used: 1

10. Site located in: [ ] Floodplain [ ] Wetlands [✓] Other N/A

11. Property recorded as a Disposal Site in County Land Records: [ ] Yes [✓] No

12. Days of operation: Mon-Sat

13. Hours of operation: 7 AM TO 5 PM

14. Days Working Face covered: Weekly

15. Elevation of water table: 55-62 Ft. (NGVD 1929)

16. Storm Water:

Collected: [✓] Yes [ ] No

Type of treatment: Detention/Infiltration

Name and Class of receiving water: No Discharge

17. Required submittals for issuance of permit.
    a. Boundary survey signed and seal by a registered Florida surveyor.
    b. Site Plan - Provide a site plan, at a scale not greater than 200 feet to the inch, which shows the facility location and identifies the proposed waste and final residue storage areas, total acreage of the site, and any other features which are relevant to the prohibitions or location restrictions such as water bodies or wetlands on or within 500 feet of the site, and potable water wells on or within 1000 feet of the site.
    c. Operational Plan - Provide an operation plan for the facility which includes: (1) a description of general facility operations, the number of personnel responsible for the operations including their respective job descriptions, and the types of equipment that will be used at the facility; (2) procedures to ensure any unauthorized wastes received at the site will be properly managed; (3) a contingency plan to cover operation interruptions and emergencies such as fires, explosions, or natural disasters; (4) procedures to ensure operational records needed for the facility will be adequately prepared and maintained; and (5) procedures to ensure that the wastes and final residue will be managed to not be expected to cause pollution.

18. Development Review Committee process completed.

[ ] No [✓] Yes

Date: May 30, 2001

Project Number: _____

19. Development Order issued.

[ ] No [✓] Yes

Date: May 30, 2001

C. **CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER**

1. Applicant:
The undersigned applicant or authorized representative of Longleaf C&D Disposal Facility, Inc. is aware that statements made in this form and attached information are an application for a Construct/Operate C&D Disposal Facility Permit from the Department of Solid Waste Management and certifies that the information in this application is true, correct and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to comply with the provisions of County Ordinance 2006-24 and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.

Signature of Applicant or Agent	2023 Longleaf Drive Mailing Address
David Myhan, Area VP Name and Title (please type)	Pensacola, FL 32505 City, State, Zip Code
dmyhan@wm.com E-mail address (if available)	(601) 790-6115 Telephone Number

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

ering features of this C & DD waste management /examined by me and found to conform to le to such facilities. In my professional judgment, maintained and operated, will comply with all te of Florida and rules of the Department. It is ill provide the applicant with a set of instructions of tion of the facility.

	4040 Royal Drive, Suite 100 Mailing Address
Chanc W. Moore, P.E. Name and T[illegible]	Kennesaw, GA 30144 City, State, Zip Code
	cwmoore@terracon.com Email Address (if applicable)
67878 Florida Regi[illegible] (Please aff	(770) 924-9799 Telephone Number
	March 07, 2014 Date

CHANC W. MOORE LICENSE No 067878 STATE OF FLORIDA PROFESSIONAL ENGINEER

Terracon

March 17, 2014

Escambia County Solid Waste Management
13009 Beulah Road
Cantonment, FL 32533

ATTN: Mr. Brent Schneider, PE
Engineering & Environmental Manager

RE: **C&D Landfill Permit Renewal**
Longleaf C&D Disposal Facility

Dear Mr. Schneider:

On behalf of our client, Longleaf C&D Disposal Facility, Inc., please find enclosed a permit renewal application and check for $1,000 to cover the permit fee for the reference permit renewal. Attached is the Escambia County Department of Solid Waste Management *Application for a Permit to Construct, Operate, Modify, or Close a Construction and Demolition Debris or Land Clearing Disposal Management Facility* for renewal of the referenced facility's permit.

We appreciate your assistance with the successful administration of this facility. Should you have any questions about this permit application, please contact me at (423) 667-7654 or jjbreedlove@terracon.com or Mr. Brian Dolihite of Waste Management at (850) 259-4156 or bdolihite@wm.com.

Sincerely,
Terracon Consultants, Inc.

Jeffrey J. Breedlove, P.E.
Senior Consultant
jjbreedlove@terracon.com

encl.

RECEIVED
MAR 25 2014
SOLID WASTE
MANAGEMENT

Long Leaf Borrow Pit

Borrow pit. A site or parcel of property where soils, clays, gravel or similar materials are removed, or have been removed for use elsewhere. May also be referred to as a mining, mineral, or resource excavation and/or extraction site.

CON 1.5.1 **Erosion Control.** Escambia County will, through LDC provisions, address the use of appropriate erosion control measures during all construction and other land disturbance activities to minimize off-site migration of soil particles.

CON 1.5.2 **Extraction and Reclamation Limitations.** Resource extraction and reclamation activities are considered unique non-residential uses due to their transient nature and the eventual restoration of affected lands to post mining land uses. Escambia County will prohibit resource extraction activities within environmentally sensitive areas that cannot be completely restored; within wellhead protection areas; within the CHHA; within one-half mile of aquatic preserves, Class II waters, Shoreline Protection Zone 1, or Outstanding Florida Waters; and within all FLU categories, except Agriculture, Rural Community, Industrial, and Public. Additionally, resource extraction in the form of borrow pits will be prohibited abutting state and federal parks, within floodplains, or near existing residential uses, residential zoning districts, or subdivisions intendedCP12:5
primarily for residential use. Reclamation activities to restore previously mined lands to an intended post-mining land use may be allowed in any future land use category.

CON 1.5.2 **Extraction and Reclamation Limitations.** Resource extraction and reclamation activities are considered unique non-residential uses due to their transient nature and the eventual restoration of affected lands to post mining land uses. Escambia County will prohibit resource extraction activities within environmentally sensitive areas that cannot be completely restored; within wellhead protection areas; within the CHHA; within one-half mile of aquatic preserves, Class II waters, Shoreline Protection Zone 1, or Outstanding Florida Waters; and within all FLU categories, except Agriculture, Rural Community, Industrial, and Public. Additionally, resource extraction in the form of borrow pits will be prohibited abutting state and federal parks, within floodplains, or near existing residential uses, residential zoning districts, or subdivisions intendedCP12:5 primarily for residential use. Reclamation activities to restore previously mined lands to an intended post-mining land use may be allowed in any future land use category.

CON 1.5.3 **Extraction and Reclamation Compatibility.** Escambia County will permit extraction of soils and mineral resources and site reclamation only where compatible with adjacent land uses and where minimal resource degradation will occur. The determination of minimal degradation, if necessary, will be made in cooperation with the appropriate state or federal agencies regulating resource extraction and reclamation activities. The locations where these activities may be allowed, if not otherwise prohibited, will be determined based on geological constraints and will be regulated by the applicable zoning district and performance standards established for such activities within the LDC.

CON 1.5.4 **Extraction and Reclamation Review.** Escambia County will subject all new or expanded resource extraction and reclamation activities to a mandatory development review process to assess technical standards for public safety, environmental protection, and engineering design.

7.01.02.6 Areas approved through county permits for borrow pits or mineral extraction are exempt from the tree protection and landscaping provisions of this section.

7.07.07. Borrow pits (includes mining and resource extraction) and reclamation activities thereof.

A. *Setbacks for excavation.* Borrow pit slope commencement (i.e., the outermost edge of excavation) shall be located a minimum of 25 feet from the adjoining owner's property boundary and/or adjacent right-of-way (ROW). Setback provisions established herein include the required width for landscape screening and buffers subsequently noted herein. The following exceptions may apply:

1. *Back to back pits.* The setback for slope commencement excludes property boundary lines between active pits using the same excavation area.
2. *Slope angles.* Pits with a shallow excavation slope of 6:1 (i.e., six feet horizontal for each one foot vertical) may exceed the 50-foot setback up to the 20-foot minimum required width for landscape screening and buffer requirements. Steep pits allowed to exceed the required 2:1 slope ratio as provided in subsection C., below, shall require a 100-foot setback.
3. *Site specific requirements.* Increased setbacks may be required per the terms of the mandatory county development order to protect wellheads, environmental areas, and/or adjacent properties from adverse impacts (reference Comprehensive Plan Policies 7.A.5.2, 11.A.1.6, 11.B.2.9 and 11.B.3.1-9, among others).

B. *Reserved.*

C. *Excavation slope requirements.* The angle of repose for borrow pit/mining slopes shall be no greater than 2:1 (i.e., two feet horizontal for each one foot vertical) unless a professional engineer (P.E.) or professional geologist (P.G.) certifies that an angle of repose exceeding this ratio will prohibit any potential erosion or slumping, factoring into account the type of soil (i.e., clay, sand, etc.) and pertinent environmental conditions of the area.

D. *Traffic requirements.* See section 7.11.09. Pit access shall be limited to routes having the least impact on residential areas, and the use shall be subject to all traffic concurrency requirements. E. *Permits.* See Escambia County Code of Ordinances, part I, chapter 42, Article VIII, section 42-323. A county resource extraction permit is required for extraction, removal and transportation of material excavated from the site. Permits for filling and/or reclamation of pits after removal of usable materials are subject to additional federal, state and/or local regulations as governed by the applicable regulatory authority.

F. *Hours of operation.* Limited for pits and reclamation activities as indicated in section 7.07.01.D above.

G. *Fences and gates.* A substantially built, esthetically pleasing security fence with appropriate gates for access, not less than six feet above grade, is required along the outer perimeter of the excavated area, with exception of the pit access point(s). Additional security features, such as barbed wire above the fence top, are encouraged. Gates for access shall be locked at all times during nonoperating hours. Fences and gates shall be maintained in a reasonable condition to remain an effective barrier.

H. *Screening.* Portions of the pit visible from the public right-of-way or nearest residential use shall be screened with dense landscaping to achieve at least 75 percent opacity within two years. The landscape buffer shall be no less than ten feet in width at any given point and may be placed either inside or outside the required fence perimeter to achieve maximum dust and noise reduction and visible shielding. Earthen berms with a minimum height of three feet can be placed within this buffer area.

I. *Buffers.* In addition to the landscape screening noted above, a minimum ten-foot wide buffer is required parallel to, and inside, the required fence. Excavation, pit operations, parking, storage and disposal of debris are not permitted within the screening or buffer areas. The setback area may not be used for truck or equipment traffic, except as necessary to maintain the setback area and perimeter fence. Pit access point(s) shall be designed perpendicular to the

buffer/screening width with the least disturbance to the buffer/screening zone that allows safe vehicle and equipment access to the operating site.

J. *Signs.* "No Trespassing" signs are required at each pit access point(s), every 250 linear feet on the boundary fence, and at each corner, in letters not less than two inches in height. "No Trespassing" signs shall be maintained in legible condition.

K. *Reclamation activities.* Active reclamation activities shall be governed by the above performance standards until such time as complete reclamation has occurred in accordance with all federal, state, and local regulations and approved by the division manager, development services in accordance with the Escambia County Code of Ordinances, Part I, Chapter 42, Article VIII. Reclamation involving land clearing debris disposal shall only be permitted to the minimum height above ground level that allows for environmental safety and stormwater runoff consistent with the surrounding environment and intended post-mining land use not to exceed six feet. Groundwater monitoring wells may be required for specific types of debris disposal per the applicable federal and state regulations and the terms of the required county-approved reclamation plan.

L. *Exceptions for existing pits and/or reclamation activities thereof.*

1. *Setbacks/slopes.* Existing pit owners and/or operators with pits that do not meet the setback and/or slope requirements established above shall have 180 days from the date of adoption of this ordinance (Ordinance 2005-23) to apply for a development order that establishes the criteria for required setbacks and/or slopes.

2. *Traffic requirements.* Traffic requirements are waived for existing pits when strict application would deny access to pit operations.

3. *Permits.* Permit requirements are established in the Escambia County Code of Ordinances, Part I, Chapter 42, Article VIII.

4. *Hours of operation.* Limited as noted above. 5. *Fences, gates, screening, and buffers.* Existing pit owners and/or operators with pits that do not comply with the fence, gate, screening and buffering provisions above shall have 180 days from the date of the mandatory approved county development order to comply with the established provisions herein. Extensions for extenuating circumstances (e.g. large pits) may be approved per the terms of the mandatory development order on a case-by-case basis (reference Escambia County Code of Ordinances, Part I, Chapter 42, Article VIII).

M. *Reclamation of existing pits involving land clearing debris disposal.* If reclamation activities involving land clearing debris disposal at existing pits already exceeds ground level as of the date of adoption of this ordinance (Ordinance 2005-23), no further increase in vertical height shall be permitted unless the height increase is certified by a professional engineer (P.E.), using best management practices, to be necessary for stormwater considerations and/or environmental safety not to exceed the permitted height as of September 16, 2004. Any such certification for height increases above ground level shall be consistent with the surrounding environment and intended post-mining land use.

(Ord. No. 97-8, § 1, 2-27-1997; Ord. No. 97-18, § 2, 6-5-1997; Ord. No. 97-51, § 1, 10-2-1997; Ord. No. 2005-23, § 5, 7-7-2005; Ord. No. 2007-60, § 4, 10-4-2007)

Staff's Observation of Long Leaf

7.07.07.A Staff observed steep slopes and is unclear of the distance to the adjacent pit. There is minimum slope requirement for back to back pits. A 100 foot setback is required as well from all sloped areas that have a 2:1 ratio. Pits shall be located a minimum of 25 feet from the adjoining

owner's property boundary and/or adjacent right-of-way (ROW). Setback provisions established herein include the required width for landscape screening and buffers subsequently noted herein.

3. *Site specific requirements.* Increased setbacks may be required per the terms of the mandatory county development order to protect wellheads, environmental areas, and/or adjacent properties from adverse impacts (reference Comprehensive Plan Policies 7.A.5.2, 11.A.1.6, 11.B.2.9 and 11.B.3.1-9, among others).

Staff also observed and is unclear of the fence surrounding the whole property along with the screening and buffers that are required. A survey will be needed to determine the actual distance from the pit to the property line. Staff also noted a large amount of storage containers throughout the site and along the fence line which is in the buffer.

G. *Fences and gates.* A substantially built, esthetically pleasing security fence with appropriate gates for access, not less than six feet above grade, is required along the outer perimeter of the excavated area, with exception of the pit access point(s). Additional security features, such as barbed wire above the fence top, are encouraged. Gates for access shall be locked at all times during nonoperating hours. Fences and gates shall be maintained in a reasonable condition to remain an effective barrier.

H. *Screening.* Portions of the pit visible from the public right-of-way or nearest residential use shall be screened with dense landscaping to achieve at least 75 percent opacity within two years. The landscape buffer shall be no less than ten feet in width at any given point and may be placed either inside or outside the required fence perimeter to achieve maximum dust and noise reduction and visible shielding. Earthen berms with a minimum height of three feet can be placed within this buffer area.

I. *Buffers.* In addition to the landscape screening noted above, a minimum ten-foot wide buffer is required parallel to, and inside, the required fence. **Excavation, pit operations, parking, storage and disposal of debris are not permitted within the screening or buffer areas.** The setback area may not be used for truck or equipment traffic, except as necessary to maintain the setback area and perimeter fence. Pit access point(s) shall be designed perpendicular to the buffer/screening width with the least disturbance to the buffer/screening zone that allows safe vehicle and equipment access to the operating site.

Cheryl D Watson

From: KEITH T. WILKINS
Sent: Tuesday, August 12, 2014 3:53 PM
To: Cheryl D Watson
Cc: Pat T. Johnson; Chips Kirschenfeld
Subject: FW: Longleaf Permit
Attachments: Longleaf Air Data Field Sheets 081114.pdf; Airmap2.pdf

This is the most recent. We have cut back to Monday, Wednesday and Friday.

From: Dana Morton
Sent: Monday, August 11, 2014 2:47 PM
To: Dana Morton; Chips Kirschenfeld; KEITH T. WILKINS
Cc: Matt T. Kelly; Brent A Wipf; Timothy R. Day; Glenn C. Griffith; Christy J. Draper
Subject: RE: Longleaf Permit

Hydrogen Sulfide Screening at Longleaf C&D Facility (2023 Longleaf Dr.)
Date: 8/11/2014
Time: 1131 to 1214
Wind: 0 – 3.5 mph W-NW-N

No exceedances of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) at 0.070 ppm found was documented

Locations:

Main Gate on Longleaf Dr. (lat/long) N 30 29' 09.7"/W 087 17' 05.6"
Readings: 0.006 PPM

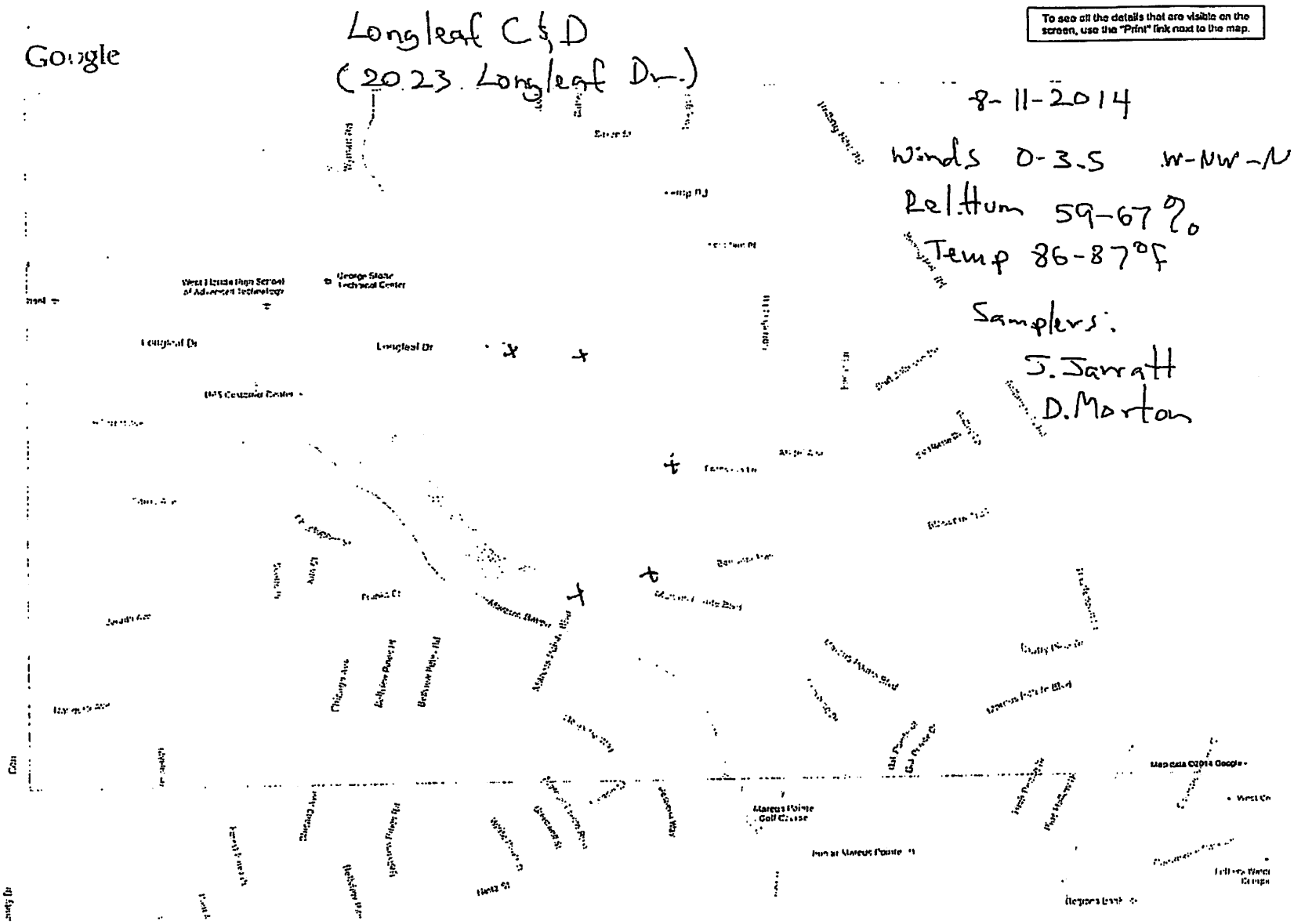
East Gate on Longleaf Dr. (lat/long) N 30 29' 09.6"/W 087 17' 00.2"
Readings: 0.005-0.006 PPM

End of Cornelius Ln. 6803 (lat/long) N 30 29' 00.1"/W 087 16' 50.7"
Readings: 0.004-0.005 PPM

End of Blossom Trail (lat/long) N 30 28' 53.5"/W 087 16' 38.3"
Readings: 0.005 PPM

3183 Marcus Point Blvd. (lat/long) N 30 28' 49.9"/W 087 17' 00.4"
Readings: 0.005-0.006 PPM

Dana Morton
Environmental Analyst: NPDES/MS4 Permit Monitoring Program
Water Quality & Land Management Division
Community & Environment Department
Central Office Complex
3363 West Park Place
Pensacola, FL 32505
Office: 850-595-1865



Longleaf C & D
(2023 Longleaf Dr.)

8-11-2014
Winds 0-3.5 W-NW-N
Relhum 59-67%
Temp 86-87°F
Samplers:
J. Jarratt
D. Morton

Longleaf C&D Pits

Air Quality Monitoring Log / Hydrogen Sulfide

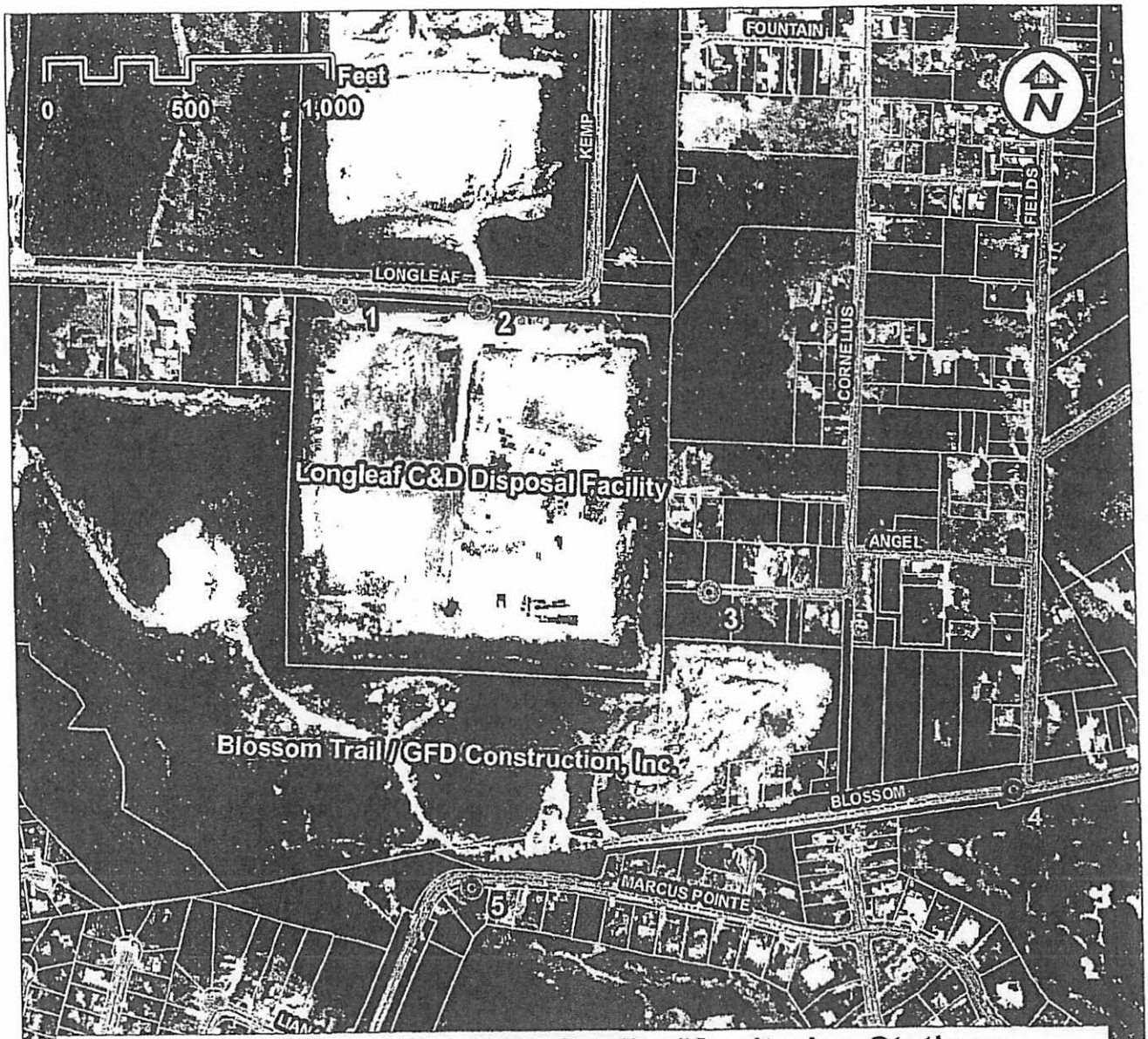
Station Location: | Date: 8-11-2014

Station Type: | Latitude: | Longitude:

Field Meter Model: Jerome 631-x | Meter Serial Number: 2536

Time	H_2S (ppm)	Temp °F	% Humidity	Wind Speed (mph)	Wind Direction	Time	H_2S (ppm)	Temp °F	% Humidity	Wind Speed (mph)	Wind Direction
Main Gate											
12:12	.006	86	59	3	WNW	11:50	.005	87	59	4	N
	field meter			1	NW		field meter			1.3	NW
12:13	.006	86	59	3	WNW	11:51	.005	87	59	4	N
	field meter			2	N		field meter			1.3	NW
12:14	.006	86	59	3	WNW	11:52	.005	87	59	1.3	NW
	field meter			.9	N		field meter			0	—
											End of Blossom Trail
1207	.005	86	61	0	NNE	11:31	.005	86	67	5	N
	field meter			3.5	NW		field meter			0	—
East Gate											
1208	.005	86	61	2	NNE	11:32	.005	86	67	5	N
	field meter			2.3	SW		field meter			.5	NNW
1209	.006	86	61	2	NNE	1133	.006	86	67	5	N
	.006			.5	W		field meter			.6	NNW
											3183 Entrance Point
1200	.004	86	65	4	N						
	field meter			.3	W						
1201	.005	86	65	4	N						
	field meter			0	—						
6803 Cornelius											
1203	.005	86	65	4	N						
	field meter			0	—						

Sampled By / Affiliation: D. Morton J Jarratt | Sampler(s) Signature: R. Dana Morton



Longleaf Drive Area Air Quality Monitoring Stations
Hydrogen Sulfide (H_2S) Monitoring
Data Collected August 8, 2014 / August 11, 2014

		8/8/2014 H_2S (PPM)		8/11/2014 H_2S (PPM)	
Point	Station	Low	High	Low	High
1	Main Gate On Longleaf Drive	0.005	**0.230**	0.006	0.006
2	East Gate on Longleaf Drive	0.004	0.006	0.005	0.006
3	End of Cornelius Lane	0.003	0.005	0.004	0.005
4	End of Blossom Trail	0.002	0.004	0.005	0.005
5	Marcus Point Blvd.	0.005	0.006	0.005	0.006
	Winds	0 - 2 mph Variable		0 - 3.5 mph W/NW/N	

BCC 5:33 PM

Google = Longleaf C.D. = (2023 Longleaf Dr.)

8-8-2014
Winds: 0-2 mph variable direction
Rel. Humid: 73-79%
Temp: 76-81° f
Samplers: Dana Morton
Jeri Brecken

Air Quality Monitoring Log / Hydrogen Sulfide

Station Location: Longleaf C+D pits (93916) Date: 8/8/14

Station Type: 2023 Longleaf Latitude: Longitude:

Field Meter Model: Jerome 631 Meter Serial Number: 2536

	Time	H_2S (ppm)	Temp °C	% Humidity	Wind Speed (mph)	Wind Direction	Time	H_2S (ppm)	Temp °C	% Humidity	Wind Speed (mph)	Wind Direction
Longleaf Main Gate	① 1147	0.005	77	79	2	SE	1211	0.003	79	73	0	SE
			Field	Meter	0	—			Field	Meter	0	—
	② 1148	0.230	77	79	2	SE	1212	0.005	79	73	0	SE
	~~9~~ 0.230		Field	Meter	0	—			Field	Meter	0	—
	③ 1149	0.005	77	79	2	SE	1213	0.004	79	73	1	SE
		8	Field	Meter	0.4	SW			Field	Meter	0	—
	④ 1150	0.005	77	79	2	SE	1224	0.002	76	91	0	SW
			Field	Meter	.4	SW			Field	Meter	0	—
	⑤ 1151	.005	77	79	2	SE	1227	0.004	76	91	0	SW
					0	—			Field	Meter	0	—
	⑥ 1152	0.006	77	78	[illegible]	SW	1228	0.002	76	91	0	SW
			Field	Meter	.4	SE			Field	Meter	0	—
Longleaf East Gate	1200	0.004	78	77	[illegible]	SE	1244	0.005	81	75	1	WNW
			Field	Meter	0	—			Field	Meter	0.2	NE
	1201	0.004	78	77	[illegible]	SE	1245	0.005	81	75	1	WNW
			Field	Meter	0	—			Field	Meter	0	—
	1202	0.006	78	77	[illegible]	SE	1246	0.006	81	75	1	WNW
			Field	Meter	0.8	NE			Field	Meter	0	—

L803 Cornelius Ln

End of Bloosom Trail (GPS Spot Pt)

3183 Marcus Pt Blvd

Sampled By / Affiliation: D. Morton / J. Bracken Sampler(s) Signature: R. Dana Morton

Longleaf Main Gate: Lat N 30°29'09.7"
Long W 087°17'05.6"

Longleaf East Gate: Lat N 30°29'09.6"
Long W087°17'00.2"

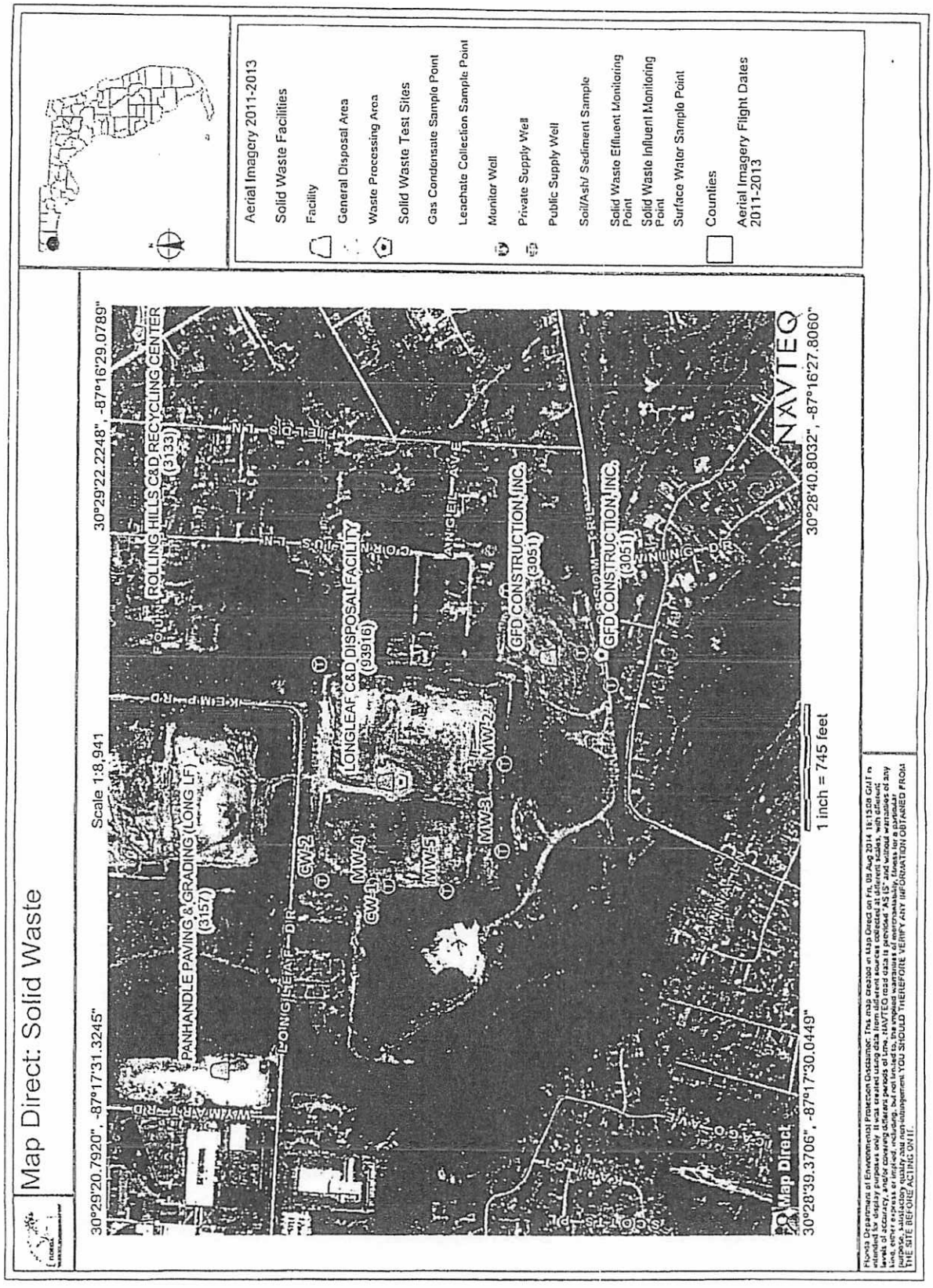
First line T/H/WS/WD from Weathersby Averages

L803 Cornelius: Lat N30°29'00.1"
Long W087°16'50.7"

End of Bloosom Tr: Lat N30°28'53.5"
Long W087°16'38.2"

3183 Marcus Pt BLVD: Lat N30°28'49.9"
Long W087°17'00.4"

BCC 5:33 PH



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Environmental Consultants
and Contractors

4041 Park Oaks Blvd.
Suite 100
Tampa, FL 33610-9501

813 621-0080
FAX 813 623-6757
www.scsengineers.com

SCS ENGINEERS

July 29, 2014
File No. 09214014.00

Ms. Dawn Templin, P.E.
Florida Department of Environmental Protection
160 W. Government Street, Suite 308
Pensacola, Florida 32502

Subject: 1st Semi-Annual 2014 Water Quality Monitoring Report
Longleaf C&D Disposal Facility (Permit # 0253281-006-SO)
WACS Number 93916

Dear Ms. Templin:

On behalf of Longleaf C&D Disposal Facility, Inc., SCS Engineers (SCS) is submitting the 1st Semi-Annual 2014 Water Quality Monitoring Report in accordance with the above referenced permit and Florida Administrative Code, Chapter 62-701.510(7).

If you have any questions or comments please contact us at (813) 621-0080 or Michele Lersch at (813) 786-6807.

Sincerely,

Ken E. Guilbeault, LEP
Senior Project Manager
SCS ENGINEERS

Joseph E. Mizerany
Project Director
SCS ENGINEERS

cc: Solid Waste Administrator, FDEP TAL
Michele Lersch, WM
Robert Boykin, WM

KEG/JEM:keg

SCS ENGINEERS

Longleaf C&D Disposal Facility
Semi-Annual
Water Quality Monitoring
Report
First Semi-Annual Monitoring 2014

Prepared for:

Longleaf C&D Disposal Facility, Inc.
2023 Longleaf Drive
Pensacola, Florida 32505

Prepared by:

SCS ENGINEERS
4041 Park Oaks Boulevard, Suite 100
Tampa, Florida 33610
(813) 621-0080

July 29, 2014
File No. 09214014.00

Longleaf C&D Disposal Facility
Semi-Annual
Water Quality Monitoring
Report
First Semi-Annual Monitoring Period 2014

Prepared for:

Longleaf C&D Disposal Facility, Inc.
2023 Longleaf Drive
Pensacola, Florida 32505

Prepared by:

SCS ENGINEERS
4041 Park Oaks Boulevard, Suite 100
Tampa, Florida 33610
(813) 621-0080

Joseph E. Mizerany, P.G.
PG License No. 001589

July 29, 2014
File No. 09214014.00

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(31) F.A.C.
Form Title Water Quality Monitoring Certification
Effective Date January 6, 2010
Incorporated in Rule 62-701.510(9) F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Longleaf C&D Disposal Facility

Address 2023 Longleaf Drive

City Pensacola Zip 32505 County Escambia

Telephone Number (850)474-8846

(2) WACS Facility ID NWD/17/00093916

(3) DEP Permit Number 0253281-006-SO

(4) Authorized Representative's Name Michele Lersch Title Env. Protection Manager

Address 4770 Hamilton Blvd.

City Theodore, AL Zip 36582 County Mobile

Telephone Number (813) 786-6807

Email address (if available) mlersch@wm.com

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

7-28-2014
(Date)

Michele H. Lersch
(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Professional Technical Support Services, Inc. (Pro-Tech)

Analytical Lab NELAC / HRS Certification # NELAP Certification E87667

Lab Name TestAmerica, Inc. (TestAmerica Denver)

Address 4955 Yarrow Street, Arvada, CO 80002

Phone Number (303) 736-0100

Email address (if available) danielle.Harrington@testamericainc.com

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: LONGLEAF		SITE LOCATION: PENSACOLA, FL	
WELL NO: MW-1	SAMPLE ID:		DATE: 06/17/2014

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 62.75 feet to 72.75 feet	STATIC DEPTH TO WATER (feet): 58.36	PURGE PUMP TYPE OR BAILER: BP
WELL ELEVATION TOC (ft NGVD): 126.98			GROUNDWATER ELEVATION (ft NGVD): 68.62	

WELL VOLUME PURGED: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.0006 gallons/foot X 72.75 feet) + 0.05 gallons = 0.79 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 67.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 67.75	PURGING INITIATED AT: 0715	PURGING ENDED AT: 0735	TOTAL VOLUME PURGED (gallons): 5.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) mmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0726	2.97	2.97	0.27	58.98	4.65	22.7	55	1.7	8.16	250		
0729	0.81	3.78	0.27	58.98	4.64	22.8	55	1.7	7.13	255		
0732	0.81	4.59	0.27	58.98	4.62	22.8	54	1.7	5.08	261		
0735	0.81	5.40	0.27	58.98	4.61	22.7	54	1.7	4.12	263	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (GAL/FT.): 1/8" = 0.0003; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMCESAR / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramcesar	SAMPLING INITIATED AT: 0736	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 67.75	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) FILTER SIZE: µm	
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	Filtration Equipment Type: DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	* SEE SAMPLE COC AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: LONGLEAF | SITE LOCATION: PENSACOLA, FL | DATE: 06/17/2014

WELL NO: MW-4 | SAMPLE ID:

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 2/8	WELL SCREEN INTERVAL DEPTH: 51.48 feet to 61.48 feet	STATIC DEPTH TO WATER (feet): 47.68	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 99.27 | GROUNDWATER ELEVATION (ft NGVD): 56.61

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0.3 gallons + (0.006 gallons/foot X 61.48 feet) + 0.05 gallons = 0.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 56.48	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 56.48	PURGING INITIATED AT: 0810	PURGING ENDED AT: 0831	TOTAL VOLUME PURGED (gallons): 5.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) mmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0822	3.12	3.12	0.26	43.00	6.45	25.0	2113	0.0	15.1	-129		
0825	0.78	3.90	0.26	43.00	6.45	24.9	2080	0.0	14.8	-131		
0828	0.78	4.68	0.26	43.00	6.44	24.9	2079	0.0	14.3	-133		
0831	0.78	5.46	0.26	43.00	6.44	25.0	2008	0.0	14.1	-134	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gallons/Foot): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMSEUR / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramseur	SAMPLING INITIATED AT: 0832	SAMPLING ENDED AT: NA

PUMP OR TUBING DEPTH IN WELL (feet): 56.48 | TUBING MATERIAL CODE: T | FIELD-FILTERED: Y (N) µm Filtration Equipment Type: | FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C.O.C AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN; NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: LONGLEAF		SITE LOCATION: PENSACOLA, FL	
WELL NO: MW-5	SAMPLE ID:		DATE: 06/17/2014

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 37.24 feet to 52.24 feet	STATIC DEPTH TO WATER (feet): 29.26	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (RNGVD): 87.26 GROUNDWATER ELEVATION (RNGVD): 58.00

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.006 gallons/foot X 52.24 feet) + 0.05 gallons = 0.66 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 47.24	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47.24	PURGING INITIATED AT: 0936	PURGING ENDED AT: 0957	TOTAL VOLUME PURGED (gallons): 5.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) mmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0948	2.88	2.88	0.24	30.31	6.62	23.0	831	0.19	11.3	-33.9		
0951	0.72	3.60	0.24	30.31	6.64	23.0	859	0.18	11.2	-34.5		
0954	0.72	4.32	0.24	30.31	6.62	23.1	837	0.19	11.5	-37.0		
0957	0.72	5.04	0.24	30.31	6.61	23.2	820	0.19	11.1	-36.2	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMSAUR / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramsaur	SAMPLING INITIATED AT: 0958	SAMPLING ENDED AT: NR

PUMP OR TUBING DEPTH IN WELL (feet): 49.24	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) sm Filtration Equipment Type:	FILTER SIZE:

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C.O.C AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; FPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: LONGLEAF		SITE LOCATION: PENSACOLA, FL	
WELL NO: CW-1	SAMPLE ID:		DATE: 06/17/2014

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 47.8 feet to 57.8 feet	STATIC DEPTH TO WATER (feet): 41.10		PURGE PUMP TYPE OR BAILER: ESP BP
WELL ELEVATION TOC (ft NGVD): 96.66			GROUNDWATER ELEVATION (ft NGVD): 55.56 NR		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= 0.2 gallons + (0.05 NR gallons/foot X 57.80 feet) + 0.05 gallons = 3.14 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 49.50 52.80 NR	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 49.50 52.80 NR	PURGING INITIATED AT: 0857	PURGING ENDED AT: 0916		TOTAL VOLUME PURGED (gallons): 4.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
0907	2.50	2.50	0.25	41.30	6.63	26.4	1638	0.10	6.44	-144		
0910	0.75	3.25	0.25	41.30	6.61	26.5	1632	0.10	5.38	-146		
0913	0.75	4.00	0.25	41.30	6.61	26.5	1632	0.10	5.17	-149		
0916	0.75	4.75	0.25	41.30	6.61	26.5	1635	0.10	4.98	-151	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMSEAUR / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramseaur	SAMPLING INITIATED AT: 0917		SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 49.5 52.80 NR	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:		FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N Replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C.O.C AND BOTTLE ORDER WORKSHEET.								

REMARKS: SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; FPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: LONGLEAF		SITE LOCATION: PENSACOLA, FL	
WELL NO: MW-3	SAMPLE ID:		DATE: 06/17/2014

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 45 feet to 59.55 feet	STATIC DEPTH TO WATER (feet): 35.18	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 94.41 GROUNDWATER ELEVATION (ft NGVD):

WELL VOLUME PURGED: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGED: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= 0.3 gallons + (0.006 gallons/foot X 59.55 feet) + 0.05 gallons = 0.71 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 54.55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 54.55	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1049	TOTAL VOLUME PURGED (gallons): 5.13

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) mmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1040	2.70	2.70	0.27	35.61	6.16	26.1	418	1.2	18.6	110.		
1043	0.81	3.51	0.27	35.61	6.16	26.3	418	1.2	18.3	114.		
1046	0.81	4.32	0.27	35.61	6.15	26.3	418	1.2	18.4	115.		
1049	0.81	5.13	0.27	35.61	6.15	26.3	419	1.2	18.4	116.	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0025; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMSEAUR / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramseaur	SAMPLING INITIATED AT: 1050	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 54.55	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) µm Filtration Equipment Type:	FILTER SIZE:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	# SEE SAMPLE COC AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: LONGLEAF		SITE LOCATION: PENSACOLA, FL	
WELL NO: MW-2	SAMPLE ID:		DATE: 06/17/2014

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 2/8	WELL SCREEN INTERVAL DEPTH: 60.29 feet to 70.29 feet	STATIC DEPTH TO WATER (feet): 41.60	PURGE PUMP TYPE OR BAILER: BP

WELL ELEVATION TOC (ft NGVD): 101.56 GROUNDWATER ELEVATION (ft NGVD): 59.96

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.3 gallons + (0.0026 gallons/foot X 90.29 feet) + 0.05 gallons = 0.77 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 65.29	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 65.29	PURGING INITIATED AT: 1145	PURGING ENDED AT: 1206		TOTAL VOLUME PURGED (gallons): 5.67

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) micromhos or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1157	3.24	3.24	0.27	42.22	4.78	23.7	26	2.3	7.12	267.		
1200	0.81	4.03	0.27	42.22	4.76	23.7	26	2.3	6.71	271.		
1203	0.81	4.84	0.27	42.22	4.75	23.6	26	2.3	5.11	275.		
1206	0.81	5.67	0.27	42.22	4.74	23.6	26	2.2	5.05	279.	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (G/L/FT): 1/8" = 0.0003; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: BEN RAMSEY, MS / PRO-TECH	SAMPLER(S) SIGNATURE(S): Ben Ramsey	SAMPLING INITIATED AT: 1207	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): 65.29	TUBING MATERIAL CODE: T	FIELD-FILTERED: Y (N) FILTER SIZE: µm Filtration Equipment Type:	
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	* SEE SAMPLE C.O.C AND BOTTLE ORDER WORKSHEET								

REMARKS: SHEEN: NO

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; FPPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 8000-24

GROUNDWATER SAMPLING LOG

SITE NAME: LONG LEAF		SITE LOCATION: PENSACOLA, FL	
WELL NO: EQUIPMENT BLANK	SAMPLE ID:		DATE: 06/17/2014

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: NA
WELL ELEVATION TOC (ft NGVD):		GROUNDWATER ELEVATION (ft NGVD):		

WELL VOLUME PURGED: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGED: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA	TOTAL VOLUME PURGED (gallons): NA

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) mmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR	ODOR
1100	NA	NA	NA	NA	7.01	21.9	i	3.1	0.01	118	NONE	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0003; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ben Ramsaur/KB Tech	SAMPLER(S) SIGNATURE(S): Ben Ramsaur	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: NR
PUMP OR TUBING DEPTH IN WELL (feet): NA	TUBING MATERIAL CODE: NA	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: µm
FIELD DECONTAMINATION: PUMP Y (N) NA	TUBING Y (N) Replaced	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLE PUMP FLOW RATE (mL per minute)	SAMPLING EQUIPMENT CODE
	* SEE SAMPLE C-O-C AND BOTTLE ORDER WORKSHEET								
	SAMPLE BOTTLES FILLED WITH DI WATER SUPPLIED BY TESTAMERICA								

REMARKS: BKGD: ND

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RPPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

INSPECTION CHECKLIST

Department of Solid Waste Management
13009 Beulah Road
Cantonment, Fl. 32533-8831
Phone: 850.937.2160

Facility Name: Long Leaf C&DD Facility
Inspection Date: July 14, 2014
Facility Address: 2023 Longleaf Drive
Inspection Participants: Horace Jones, P&Z Director; Andrew Holmer, P&Z; John Fisher, P&Z; Juan Lemos, P&Z; Tim Day, C&E; Brent Wipf, C&E, Brent Schneider, PE ESCWM; Steve Littlejohn, Code; Terrance Davis, Code
Inspector Signature: Brent Schneider

ITEM NO.	FILE REVIEW	Ok	Not Ok	Unk	N/A
1.1	For C&D and LCD disposal facilities, does the facility have a current plan for the method and sequence of filling wastes? (Per approved Operations Plan)	X			
1.2	Are the Required Reports (See Specific Permit Condition 14) being submitted? Permittee shall submit semi-annual reports of tonnage of material received, average number of disposal vehicles entering the facility per month and remaining capacity.	X			
1.3	Is Insurance Adequate? (See Section 82-233).	X			

ITEM NO.	WASTE PROHIBITIONS	Ok	Not Ok	Unk	N/A
2.1	Are only permitted waste types disposed at facility? (See Section 82-225)				X
2.2	Is the operational footprint setback maintained in accordance with Section 82-226?			X	
12.3	Are aerial and vertical operational heights maintained in accordance with Section 82-226?	X			
2.4	Is the active area located greater than 1,000 feet of a public water well or within 500 feet of a private potable well accordance with Section 82-226?	X			
2.5	Is required perimeter fencing in place in accordance with Section 82-227?	X			

ITEM NO.	FACILITY OPERATION AND MAINTENANCE	Ok	Not Ok	Unk	N/A
3.1	Is the operation plan substantially followed? (See Operations Plan)				X
3.2	Is the method and sequence of filling waste according to plans? (See Operations Plan)				X
3.3	Is the frequency, amount and quality of cover, as required? (See Section 82-227)				X
3.4	Is litter controlled and are litter control devices maintained? (See Specific Condition 12)				X
3.5	Are objectionable odors detected beyond the property boundary? (See Section 82-227)	X			
3.6	Is stormwater management system maintained and operated as required? (See County Stormwater Plan)	X			
3.7	Are approved dust control methods adequate? (See Section 82-227)				X

Notes: Site is temporarily closed and inactive. No odors were detected offsite.

Florida Department of
Environmental Protection
Inspection Checklist

FACILITY INFORMATION:

Facility Name: LONGLEAF C&D DISPOSAL FACILITY

On-Site Inspection Start Date: 06/25/2014

On-Site Inspection End Date: 06/25/2014

WACS No.: 93916

Facility Street Address: 2023 LONGLEAF DRIVE

City: PENSACOLA

County Name: ESCAMBIA

Zip: 32501

INSPECTION PARTICIPANTS:

(Include ALL Landfill and Department Personnel with Corresponding Titles)

Principal Inspector: Dawn K. Templin, Professional Engineer

Other Participants: Morgan Ray, Engineer; Suzanne Patrick, Cleanup Project Manager; Chad Nowling, Inspector; Brian Dolihite, Representative

INSPECTION TYPE:

Construction Completion Certification Inspection for C&D Debris Disposal Facility

ATTACHMENTS TO THE INSPECTION CHECK LIST:

This Cover Page to the Inspection Checklist may include any or all of the following attachments as appropriate.

COMMENTS:

06/25/2014

On June 19, 2014, a construction completion inspection was conducted at the Longleaf C&D Debris Disposal Facility. Brian Dolihite, of Waste Management, Inc., met us on-site and accompianed the Department during the inspection.

The purpose of the inspection was to verify that the closure of Cells 1, 2 and 3 was conducted in accordance with the Permit Modification issued October 11, 2013. The closure design includes a geomembrane and soil cap.

Based on the report and site inspection, it appears closure has been conducted in accordance with the facility's permit and the applicable Rules of Chapter 62-701, F.A.C.

During the inspection, it was noted that there are several roll offs containing waste tires and solid waste, as noted in the photos below. The solid waste in the containers must be disposed of at an authorized solid waste facility. Please inform the Department when the waste is removed from the facility.

Photo 1: Exposed geomembrane cap on slope of cells
Photo 2: Final cover with vegetation on top of cells
Photo 3: Rolloff container containing waste tires
Photo 4: Rolloff containers containing tires, yard trash and various other debris

ATTACHMENTS:

Photo 1

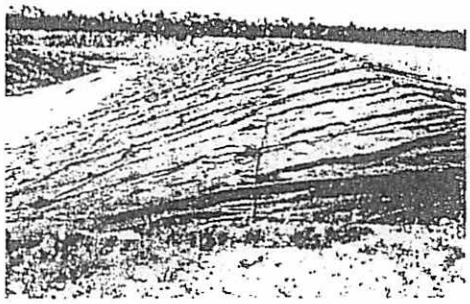


Photo 2

Photo 3

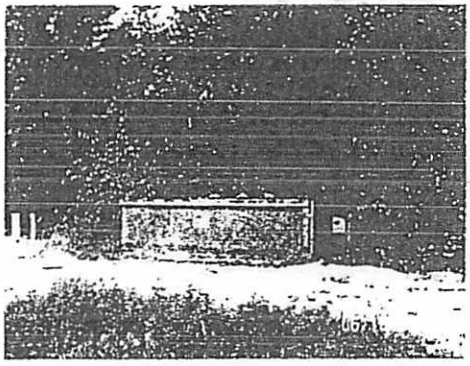
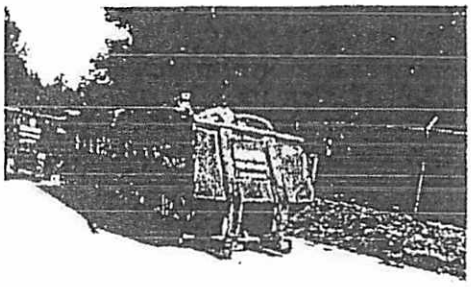


Photo 4



Inspection Date: 6/25/2014

Signed:

Dawn K. Templin	Professional Engineer
PRINCIPAL INSPECTOR NAME	**PRINCIPAL INSPECTOR TITLE**
D.K.Templin	FDEP / 6/26/2014
PRINCIPAL INSPECTOR SIGNATURE	**ORGANIZATION** / **DATE**
Morgan Ray	Engineer
INSPECTOR NAME	**INSPECTOR TITLE**
NO SIGNATURE	FDEP
INSPECTOR SIGNATURE	**ORGANIZATION**
Suzanne Patrick	Cleanup Project Manager
INSPECTOR NAME	**INSPECTOR TITLE**
NO SIGNATURE	FDEP
INSPECTOR SIGNATURE	**ORGANIZATION**
Chad Nowling	Inspector
INSPECTOR NAME	**INSPECTOR TITLE**
NO SIGNATURE	FDEP
INSPECTOR SIGNATURE	**ORGANIZATION**
Brian Dolihite	Representative
REPRESENTATIVE NAME	**REPRESENTATIVE TITLE**
NO SIGNATURE	Waste Management, Inc.
REPRESENTATIVE SIGNATURE	**ORGANIZATION**

Supervisor: Dawn K. Templin **Inspection Approval Date:** 06/26/2014

NOTE: By signing this document, the Site Representative only acknowledges receipt of this Inspection Report and is not admitting to the accuracy of any of the items identified by the Department as "Not Ok" or areas of concern.

Templin, Dawn

From: Lersch, Michele <Mlersch@wm.com>
Sent: Monday, May 19, 2014 10:19 AM
To: Templin, Dawn
Cc: Noel, Mark; Dolihite, Brian
Subject: Q2-2014 Methane Monitoring_Longleaf C&D Dispcsal Facility_permit 0253281-006-SO_WACS 93916
Attachments: 2014_Q2 MM report_longleaf C&D.pdf; MM locations map_Longleaf C&D.pdf

Ms. Templin:
In accordance with Florida Administrative Code 62-701.530(2)(c) and the above referenced permit, attached please find the
Second Quarter-2014 Combustible Gas Monitoring Report for the Longleaf C&D Disposal Facility.
Based on the attached report, the facility complies with the requirements of Rule 62-701.530 FAC for the April-June 2014 period.
If you have any questions or require additional information, please contact me at (813) 786-6807.
Sincerely,
-Michele

Michele Lersch
Environmental Protection Manager
mlersch@wm.com
WM of Gulf Coast Area
4770 Hamilton Blvd.
Theodore, AL 36582
(813) 786-6807

Longleaf C and D Disposal Facility
2023 Longleaf Drive
Pensacola, FL 32505

WASTE MANAGEMENT

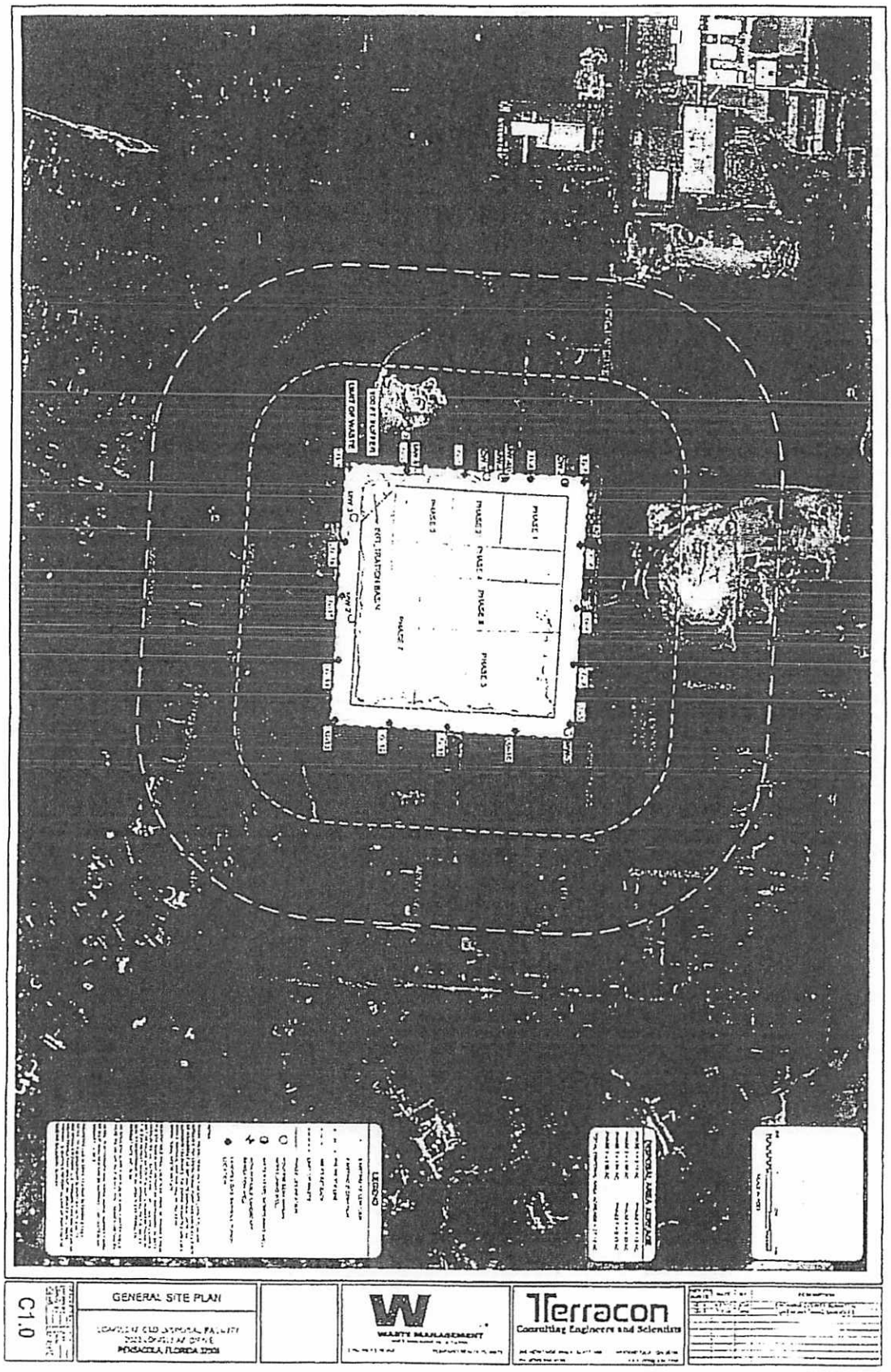
LANDFILL GAS MONITORING LOG

Analyst:	Judson Barfield	Date:	5/14/2014
Gas Meter Instrument:	LandTec GEM 2000 NAV	Serial No:	GM 12014/09
Date Last Calibrated:	3/6/2014	Model No:	GM2K2-E010-L
Weather Conditions:	Rain, Thunderstorms / Wind 8 mph SW / 72 degrees F		
Barometric Pressure:	29.95"	Source:	www.weather.com

Monitoring Point	Time	% Methane	% LEL	Notes
LG-1	3:50:33PM	0	0	
LG-2	3:51:42PM	0	0	
LG-3	3:18:16PM	0	0	
LG-4	3:15:48PM	0	0	
LG-5	3:20:56PM	0	0	
LG-6	3:22:42PM	0	0	
LG-7	3:24:14PM	0	0	
LG-8	3:34:45PM	0	0	
LG-9	3:36:28PM	0	0	
LG-10	3:59:02PM	0	0	
LG-11	3:38:43PM	0	0	
LG-12	3:40:42PM	0	0	
LG-13	3:42:25PM	0	0	
LG-14	3:45:00PM	0	0	
LG-15	3:46:44PM	0	0	
LG-16	3:48:40PM	0	0	
Scale House	4:00:45PM	0	0	

Comments:

Signature: Judson Barfield, Gas Technician I



From:	Brent A Wipf
Sent:	Wednesday, August 20, 2014 5:37 PM
To:	Dana Morton; Chips Kirschenfeld; KEITH T. WILKINS; Pat T. Johnson
Cc:	Matt T. Kelly; Timothy R. Day; Glenn C. Griffith; Christy J. Draper; Jack R. Brown; Cheryl D Watson
Subject:	RE: Longleaf C&D Pit
Attachments:	Longleaf Air Monitoring field sheets 082014.pdf

Hydrogen Sulfide Screening at Longleaf C&D Facility (2023 Longleaf Dr.)
Date: 8/20/2014
Time: 1040 to 1243
Wind: 0-7 mph SE-NW (generally WSW)

No exceedances of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) at 0.070 ppm found was documented

Locations:

Main Gate on Longleaf Dr. (lat/long) N 30 29' 09.7"/W 087 17' 05.6"
Readings: 0.005 PPM

East Gate on Longleaf Dr. (lat/long) N 30 29' 09.6"/W 087 17' 00.2"
Readings: 0.005 PPM

End of Cornelius Ln. 6803 (lat/long) N 30 29' 00.1"/W 087 16' 50.7"
Readings: 0.004-0.005 PPM

End of Blossom Trail (lat/long) N 30 28' 53.5"/W 087 16' 38.3"
Readings: 0.004-0.005 PPM

3183 Marcus Point Blvd. (lat/long) N 30 28' 49.9"/W 087 17' 00.4"
Readings: 0.002-0.004 PPM

brent wipf
Environmental Programs Manager
Water Quality & Land Management Division
Community & Environment Department
3363 West Park Place
Pensacola, FL 32505

Telephone#: (850) 595-3445
Fax#: (850) 595-3634

From: Brent A Wipf
Sent: Monday, August 18, 2014 2:52 PM
To: Dana Morton; Chips Kirschenfeld; KEITH T. WILKINS
Cc: Matt T. Kelly; Timothy R. Day; Glenn C. Griffith; Christy J. Draper; Jack R. Brown
Subject: RE: Longleaf C&D Pit

Hydrogen Sulfide Screening at Longleaf C&D Facility (2023 Longleaf Dr.)
Date: 8/18/2014
Time: 0957 to 1142
Wind: 3-11 mph S-W (generally SW)

No exceedances of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) at 0.070 ppm found was documented

Locations:

Main Gate on Longleaf Dr. (lat/long) N 30 29' 09.7"/W 087 17' 05.6"
Readings: 0.003 PPM

East Gate on Longleaf Dr. (lat/long) N 30 29' 09.6"/W 087 17' 00.2"
Readings: 0.003-0.004 PPM

End of Cornelius Ln. 6803 (lat/long) N 30 29' 00.1"/W 087 16' 50.7"
Readings: 0.002 PPM

End of Blossom Trail (lat/long) N 30 28' 53.5"/W 087 16' 38.3"
Readings: 0.001-0.002 PPM

3183 Marcus Point Blvd. (lat/long) N 30 28' 49.9"/W 087 17' 00.4"
Readings: 0.001-0.002 PPM

brent wipf
Environmental Programs Manager
Water Quality & Land Management Division
Community & Environment Department
3363 West Park Place
Pensacola, FL 32505

Telephone#: (850) 595-3445
Fax#: (850) 595-3634

From: Brent A Wipf
Sent: Friday, August 15, 2014 12:45 PM
To: Dana Morton; Chips Kirschenfeld; KEITH T. WILKINS
Cc: Matt T. Kelly; Timothy R. Day; Glenn C. Griffith; Christy J. Draper; Jack R. Brown
Subject: RE: Longleaf C&D Pit

Hydrogen Sulfide Screening at Longleaf C&D Facility (2023 Longleaf Dr.)
Date: 8/15/2014
Time: 0812 to 1122
Wind: 0-6 mph N-SE (generally N)

No exceedances of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) at 0.070 ppm found was documented

Locations:

Main Gate on Longleaf Dr. (lat/long) N 30 29' 09.7"/W 087 17' 05.6"
Readings: 0.007 PPM

East Gate on Longleaf Dr. (lat/long) N 30 29' 09.6"/W 087 17' 00.2"
Readings: 0.004-0.006 PPM

End of Cornelius Ln. 6803 (lat/long) N 30 29' 00.1"/W 087 16' 50.7"
Readings: 0.006-0.007 PPM

End of Blossom Trail (lat/long) N 30 28' 53.5"/W 087 16' 38.3"
Readings: 0.004-0.007 PPM

3183 Marcus Point Blvd. (lat/long) N 30 28' 49.9"/W 087 17' 00.4"
Readings: 0.007-0.008 PPM

East Fence Line (lat/long) N 30 29' 3.67" / W 87 16' 53.47
Readings: 0.003-0.005 PPM

Southeast Fence Line (lat/long) N 30 28' 57.21" / W 87 16' 52.87"
Readings: 0.005-0.007 PPM

South Fence Line (lat/long) N 30 28' 57.64" / W 87 16' 58.25"
Readings: 0.006-0.007 PPM

Southwest Fence Line (lat/long) N 30 28' 59.78" / W 87 17' 7"
Readings: 0.005-0.007 PPM

West Fence Line (lat/long) N 30 28' 59.78" / W 87 17' 7.49"
Readings: 0.006-0.008 PPM (slight H2S odor detected)

West North West Fence Line (lat/long) N 30 29' 4.51" / W 87 17' 7.16"
Readings: 0.006-0.007 PPM

brent wipf
Environmental Programs Manager
Water Quality & Land Management Division
Community & Environment Department

3363 West Park Place
Pensacola, FL 32505

Telephone#: (850) 595-3445
Fax#: (850) 595-3634

From: Brent A Wipf
Sent: Wednesday, August 13, 2014 5:23 PM
To: Dana Morton; Chips Kirschenfeld; KEITH T. WILKINS
Cc: Matt T. Kelly; Timothy R. Day; Glenn C. Griffith; Christy J. Draper; Jack R. Brown
Subject: RE: Longleaf C&D Pit

Hydrogen Sulfide Screening at Longleaf C&D Facility (2023 Longleaf Dr.)
Date: 8/13/2014
Time: 1547 to 1622
Wind: 2-9 mph NNW-SSW

No exceedances of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) at 0.070 ppm found was documented

Locations:

Main Gate on Longleaf Dr. (lat/long) N 30 29' 09.7"/W 087 17' 05.6"
Readings: 0.006 PPM

East Gate on Longleaf Dr. (lat/long) N 30 29' 09.6"/W 087 17' 00.2"
Readings: 0.005-0.006 PPM

End of Cornelius Ln. 6803 (lat/long) N 30 29' 00.1"/W 087 16' 50.7"
Readings: 0.003-0.004 PPM

End of Blossom Trail (lat/long) N 30 28' 53.5"/W 087 16' 38.3"
Readings: 0.005 PPM

3183 Marcus Point Blvd. (lat/long) N 30 28' 49.9"/W 087 17' 00.4"
Readings: 0.005 PPM

brent wipf
Environmental Programs Manager
Water Quality & Land Management Division
Community & Environment Department
3363 West Park Place
Pensacola, FL 32505

Telephone#: (850) 595-3445
Fax#: (850) 595-3634

From: Dana Morton
Sent: Monday, August 11, 2014 2:47 PM
To: Dana Morton; Chips Kirschenfeld; KEITH T. WILKINS
Cc: Matt T. Kelly; Brent A Wipf; Timothy R. Day; Glenn C. Griffith; Christy J. Draper
Subject: RE: Longleaf Permit

Hydrogen Sulfide Screening at Longleaf C&D Facility (2023 Longleaf Dr.)
Date: 8/11/2014
Time: 1131 to 1214
Wind: 0 – 3.5 mph W-NW-N

No exceedances of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) at 0.070 ppm found was documented

Locations:

Main Gate on Longleaf Dr. (lat/long) N 30 29' 09.7"/W 087 17' 05.6"
Readings: 0.006 PPM

East Gate on Longleaf Dr. (lat/long) N 30 29' 09.6"/W 087 17' 00.2"
Readings: 0.005-0.006 PPM

End of Cornelius Ln. 6803 (lat/long) N 30 29' 00.1"/W 087 16' 50.7"
Readings: 0.004-0.005 PPM

End of Blossom Trail (lat/long) N 30 28' 53.5"/W 087 16' 38.3"
Readings: 0.005 PPM

3183 Marcus Point Blvd. (lat/long) N 30 28' 49.9"/W 087 17' 00.4"
Readings: 0.005-0.006 PPM

Dana Morton
Environmental Analyst: NPDES/MS4 Permit Monitoring Program
Water Quality & Land Management Division
Community & Environment Department
Central Office Complex
3363 West Park Place
Pensacola, FL 32505
Office: 850-595-1865
Mobile: 850-554-4228
Email: dmorton@myescambia.com

From: Dana Morton
Sent: Friday, August 08, 2014 2:29 PM
To: Chips Kirschenfeld; KEITH T. WILKINS

Cc: Matt T. Kelly; Brent A Wipf; Timothy R. Day; Glenn C. Griffith; Christy J. Draper
Subject: RE: Longleaf Permit

Hydrogen Sulfide Screening at Longleaf C&D Facility (2023 Longleaf Dr.)
Date: 8/8/2014
Time: 1147 to 1202
Wind: 0 – 2 mph and variable

<u>One exceedance of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) at 0.070 ppm found was documented</u>

Locations:

Main Gate on Longleaf Dr. (lat/long) N 30 29' 09.7"/W 087 17' 05.6"
Readings: 0.005-0.23 PPM Note: Six reading were made (0.005, 0.230, 0.005, 0.005, 0.005, and 0.005) One brief gust across the pit yielded the elevated reading.

East Gate on Longleaf Dr. (lat/long) N 30 29' 09.6"/W 087 17' 00.2"
Readings: 0.004-0.006 PPM

End of Cornelius Ln. 6803 (lat/long) N 30 29' 00.1"/W 087 16' 50.7"
Readings: 0.003-0.005 PPM

End of Blossom Trail (lat/long) N 30 28' 53.5"/W 087 16' 38.3"
Readings: 0.002-0.004 PPM

3183 Marcus Point Blvd. (lat/long) N 30 28' 49.9"/W 087 17' 00.4"
Readings: 0.005-0.006 PPM

Dana Morton
Environmental Analyst: NPDES/MS4 Permit Monitoring Program
Water Quality & Land Management Division
Community & Environment Department
Central Office Complex
3363 West Park Place
Pensacola, FL 32505
Office: 850-595-1865
Mobile: 850-554-4228
Email: dmorton@myescambia.com

From: Chips Kirschenfeld
Sent: Friday, August 08, 2014 8:39 AM
To: KEITH T. WILKINS
Cc: Dana Morton; Matt T. Kelly; Brent A Wipf; Timothy R. Day; Glenn C. Griffith; Christy J. Draper
Subject: Re: Longleaf Permit

Dana, please collect air samples at Longleaf today and Monday, thanks.

Sent from my iPad

Air Quality Monitoring Log / Hydrogen Sulfide

Station Location: Longleaf | Date: 8/20/14

Station Type: | Latitude: | Longitude:

Field Meter Model: Jerome 631x | Meter Serial Number: 2536

Time	H_2S (ppm)	Temp °F	% Humidity	Wind Speed (mph)	Wind Direction	Time	H_2S (ppm)	Temp °C	% Humidity	Wind Speed (mph)	Wind Direction
1040	0.002	86	69	5	WNW						
1041	0.002	86	69	7	W						
1042	0.004	87	69	7	WSW						
1228	0.005	90	56	3	WSW						
1229	0.005	90	55	3	SW						
1230	0.004	90	54	0	WSW						
1232	0.004	91	55	5	NW						
1233	0.004	91	56	6	W						
1234	0.005	91	56	4	NW						
1238	0.005	91	56	4	NW						
1239	0.005	91	59	5	SW						
1240	0.005	91	61	3	SW						
1241	0.005	90	63	4	S						
1242	0.005	90	63	3	SE						
1243	0.005	90	62	2	SW						
End											

Sampled By / Affiliation: BWilf / Escambia County | Sampler(s) Signature:

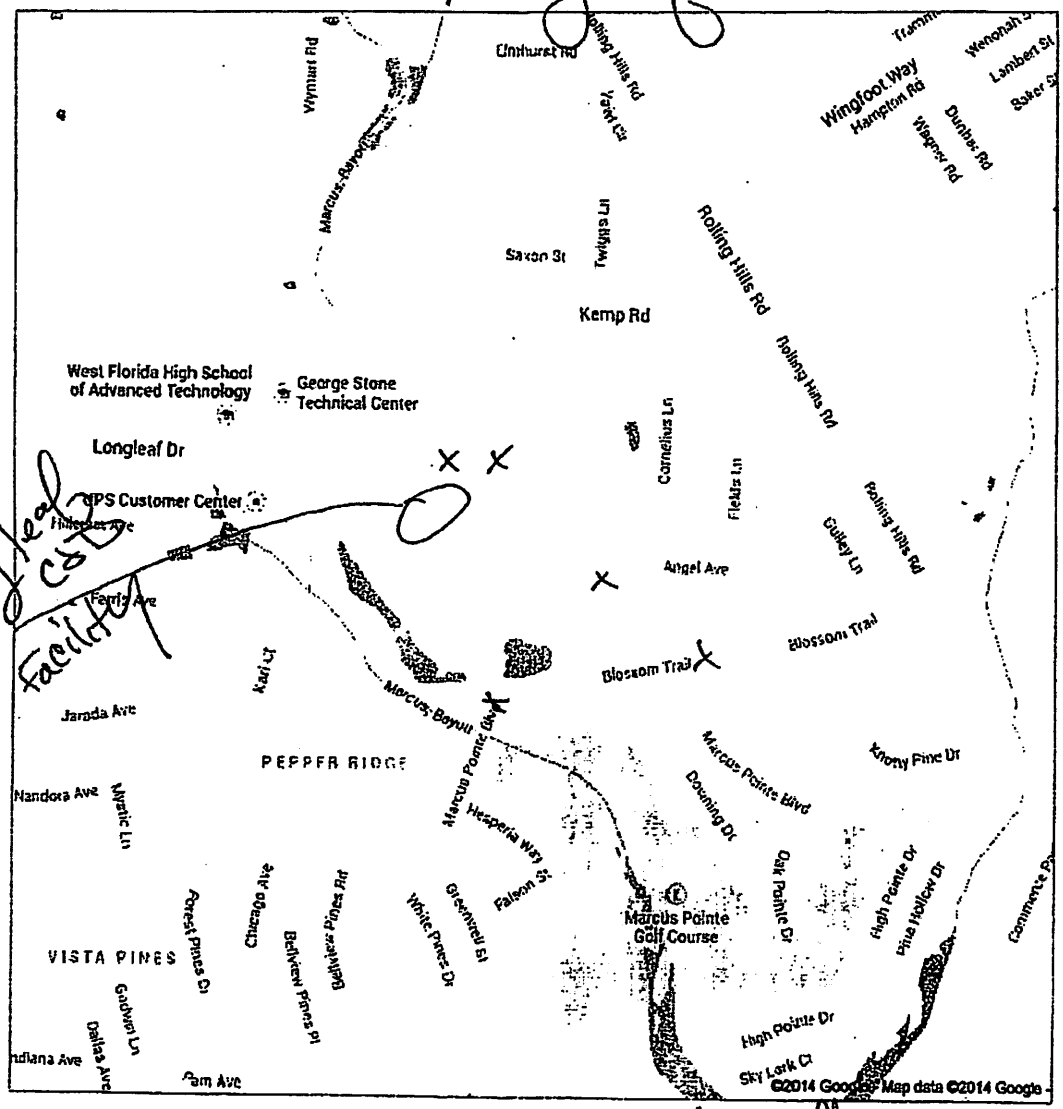
Notes: No H_2S odors detected.

No exceedances of Agency for Toxic substances and Disease Registry Minimum Risk Level (MRL) @ 0.070ppm Found.

8/20/14

Google

Longleaf



Longleaf CSD Facility

Winds - 0-7 mph SE-NW (generally WSW)
RH - 54-69%
Temp - 86-91°
Samplers - Brent Wipf
Notes: No H_2S odors detected.
No exceedances of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) @ 0.070 ppm Found.

Air Quality Monitoring Log / Hydrogen Sulfide

Station Location: Longleaf | Date: 8/18/2014

Station Type: | Latitude: | Longitude:

Field Meter Model: Jerome 631x | Meter Serial Number: 2536

Time	H_2S (ppm)	Temp °F (C)	% Humidity	Wind Speed (mph)	Wind Direction	Time	H_2S (ppm)	Temp °C	% Humidity	Wind Speed (mph)	Wind Direction
0957	0.001	86	71	3	S						
0958	0.002	86	71	4	SW						
0959	0.002	86	70	4	SSW						
1124	0.001	88	64	5	SSW						
1125	0.002	88	65	9	S						
1126	0.002	88	65	8	SSW						
1129	0.002	88	65	11	SW						
1130	0.002	87	65	7	WSW						
1131	0.002	87	67	8	WSW						
1136	0.003	87	69	3	W						
1137	0.003	87	69	3	W						
1138	0.003	87	68	8	WSW						
1140	0.003	87	68	9	WSW						
1141	0.001	87	68	9	WSW						
1142	0.003	87	69	11	SW						
		End									

Mobile Bus. Blvd.

End of Blossom

End of Cornelius

Manual gate

Spot gate

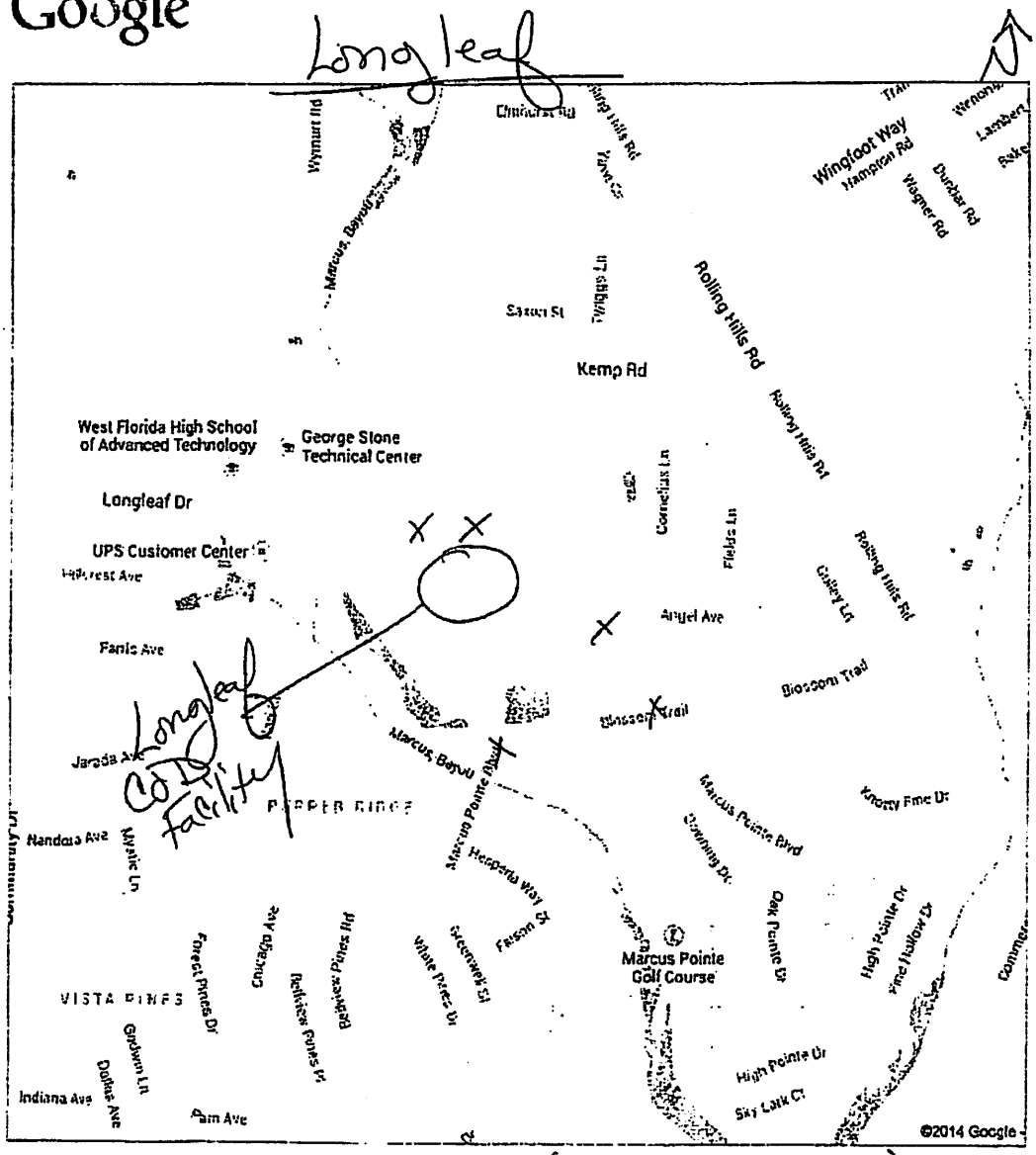
Sampled By / Affiliation: BWP&T / Escambia County | Sampler(s) Signature:

Notes: No H_2S odors detected.

No exceedances of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) @ 0.07ppm Fed.

X-sample locations

Google



Longleaf CO Facility

Winds - 3-11 mph S-W (generally SW)
RH - 65-71%
Temp - 86-88° F
Samplers - Brent Wipf BW
Notes: No H_2S odors detected.
No exceedances of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) @ 0.070 ppm found.

Air Quality Monitoring Log / Hydrogen Sulfide

Station Location: Longleaf | Date: 8/15/14

Station Type: | Latitude: | Longitude:

Field Meter Model: Jerome 631 x | Meter Serial Number: 2536

Time	H_2S (ppm)	Temp °F	% Humidity	Wind Speed (mph)	Wind Direction	Time	H_2S (ppm)	Temp °F	% Humidity	Wind Speed (mph)	Wind Direction
0812	0.004	78°	65	5	NNW	0855	0.008	79	53	4	NNW
0814	0.005	76°	63	2	WNW	0856	0.007	79	53	4	N
0816	0.006	76°	63	2	NW	0908	0.006	79	53	3	NNW
0823	0.003	77	62	2	NNW	0909	0.007	80	53	4	NNW
0824	0.005	77	62	1	NNW	0910	0.007	80	53	4	NNW
0825	0.005	77	62	1	W	0911	0.007	80	52	2	N
0831	0.005	77	61	0	NW	0915	0.007	81	52	4	NE
0832	0.005	77	61	0	NW	0916	0.007	81	52	3	NNE
0833	0.007	77	61	5	NW	0917	0.007	81	52	3	N
0834	0.006	77	59	2	NNW	0926	0.004	81	52	3	NW
0837	0.007	77	59	2	NW	0927	0.006	81	53	3	NNW
0838	0.007	78	59	1	NNW	0928	0.007	81	53	2	NW
0839	0.006	78	59	2	SE	0932	0.006	81	52	4	N
841	0.006	78	59	2	NNW	0933	0.007	81	53	3	NNE
0845	0.005	79	55	0	NNW	0934	0.007	81	53	4	NNE
0846	0.007	80	55	2	NNW	1120	0.007	86	44	2	NNE
0847	0.005	80	54	0	NNE	1121	0.008	86	44	2	NNE
0848	0.005	80	54	2	N	1132	0.007	86	44	3	N
0852	0.006	80	54	6	NNW			End			
0853	0.007	79	53	4	NNW						
0854	0.007	79	54	4	NNW						

Sampled By / Affiliation: B. Wipf / Escambia County | Sampler(s) Signature:

Note: * slight sulfur odor detected

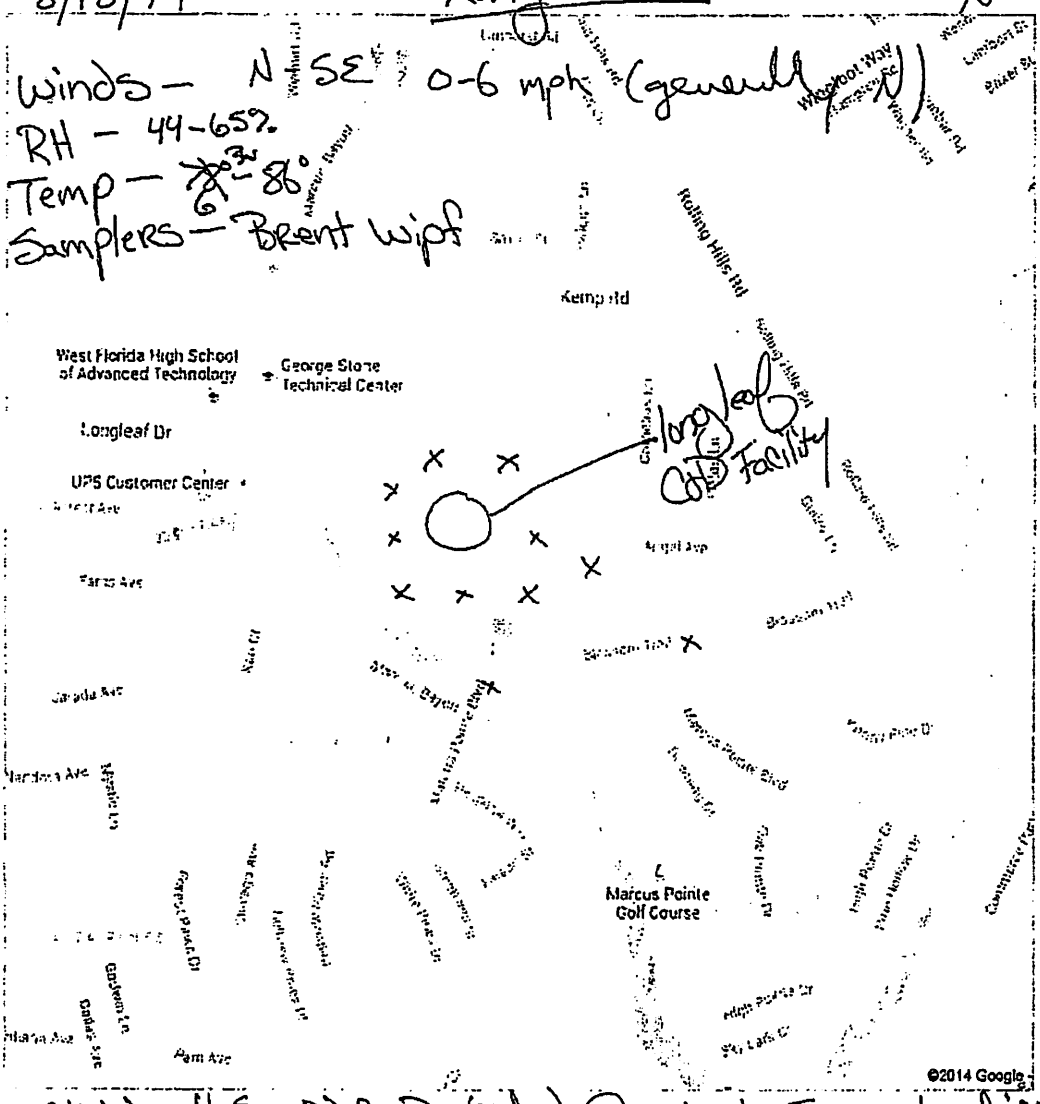
No exceedences of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) @ 0.070 ppm Found.

Google
8/15/14

Longleaf

N

Winds – N SE 0-6 mph (generally N)
RH – 44-65%
Temp – ~~72~~ 82-88°
Samplers – Brent Wipf



Notes: Slight H_2S odor Detected @ West Fence location

Stations Inside Longleaf Fenceline:

East Fenceline – 30° 29' 3.67" 87° 16' 53.47"
SouthEast Fenceline – 30° 28' 57.21" 87° 16' ~~58.25~~ 52.87
South Fenceline – 30° 28' 57.64" 87° 16' 58.25"
Southwest Fenceline – 30° 28' 57.73 87° 17' 7"
West Fenceline – 30° 28' 59.78" 87° 17' 7.49"
West Northwest Fenceline – 30° 29' 4.51" 87° 17' 7.16"

No exceedences of Agency for Toxic Substances and Disease Registry Minimum Risk Level (MRL) @ 0.070 ppm found.

https://maps.google.com/maps?hl=en&ie=UTF8&ll=30.483463,-87.282665&spn=0.008025,0.016469&t=... 8/13/2014