

**PROPOSED PERMIT MAJOR MODIFICATION
FACT SHEET**

**Alabama State Port Authority
Mobile, Alabama
EPA I.D. Number ALD 058 221 326**

A draft Alabama Hazardous Wastes Management and Minimization Act (AHWMMA) hazardous waste facility permit has been prepared for the Alabama State Port Authority (ASPA) facility identified as the former Alabama Wood Treating Corporation (AWTC) site. This hazardous waste facility was a former wood treating facility and is located in Mobile, Alabama. This fact sheet has been prepared to briefly advise the public of the principle permitting, legal and policy issues of the draft permit.

I. PERMIT PROCESS

The purpose of the permitting process is to allow the State and the public to evaluate ASPA's ability to comply with the hazardous waste management requirements of the AHWMMA, as amended. ASPA must comply with hazardous waste management conditions set forth in the permit during the effective period of the permit, which is ten (10) years from the last permit renewal.

II. PROCEDURES FOR REACHING A FINAL DECISION

ADEM Admin. Code r. 335-14-8-.08(6)(b)1. requires that the public be given a 45-day comment period for each draft permit or major permit modification. The comment period will begin on July 31, 2019, which is the date of publication of the public notice in major local newspaper(s) of general circulation, and will end on September 23, 2019. The public notice will also be broadcast over local radio station(s).

Any person interested in commenting on the application or draft permit must do so within the 45-day comment period discussed above.

All persons wishing to comment on any of the permit conditions or the permit application should submit their comments in writing to the Alabama Department of Environmental Management, Permits and Services Division, 1400 Coliseum Blvd. (zip 36110-2059), P.O. Box 301463 (zip 36130-1463) Montgomery, Alabama, ATTENTION: Mr. Russell A. Kelly.

ADEM will consider all written comments received during the comment period while making a permit decision for this facility. When the Department makes its final permit decision, notice will be given to the applicant and each person who has submitted written comments or requested notice of the final permit decision.

III. FACILITY DESCRIPTION

The Alabama State Port Authority has applied for a hazardous waste facility permit under the requirements of the AHWMMA for post-closure care including corrective action and groundwater monitoring. The Alabama State Port Authority, located on 68 Virginia Street, Mobile, Alabama

36603, was issued a permit on September 13, 1991 to perform post-closure care on two solid waste management units (SWMUs) closed with waste in place.

The former Alabama Wood Treating Corporation (AWTC) site is approximately 14 acres located in a heavily industrialized zone along the Mobile River. ASPA purchased the former AWTC in 1976 and is the present owner of the facility. Active wood treating operations occurred at the site for approximately 80 years before ceasing in 1985. During the operational period, several facility configurations and operations existed on the site. The operations conducted at the site include the following: coal tar refining, creosote product storage, creosote wood treating, and pentachlorophenol wood treating. Two regulated units, SWMUs 2 and 7 were closed in 1990 with residual waste in place. In addition to the two regulated units, SWMUs 4, 5, 6, and 8 were identified as requiring corrective measures. SWMUs 4, 5, 6, and 8 previously functioned as a plant operations and storage area, wood product storage area, drainage ditch, and creosote unloading area, respectively. The storage tanks, vats, pressure vessels, and associated building structures and foundations were dismantled and removed during site closure.

Creosote and pentachlorophenol were used as wood preserving agents during active operation at the former AWTC site and resulted in the contamination of site soil and groundwater. Presently, the property is undergoing groundwater corrective action for the recovery of creosote wastes (hazardous waste code U051).

The remedial activities outlined in the Corrective Measures Implementation Plan (CMIP) allowed the site to be redeveloped, and the majority of the site is now used as a fully-operational container terminal where cargo containers are shipped via ship, truck, and/or freight car. Of the four SWMUs requiring corrective measures, SWMU 6 West is the only one that is not part of the container terminal.

Waste management practices at this facility require the issuance of an AHWMMMA Hazardous Waste Facility Permit. Creosote dense non-aqueous phase liquid (DNAPL) is present in groundwater at most SWMUs at the former AWTC site, either in residual or free-product form. Two DNAPL recovery systems are currently in place at the site. DNAPL is periodically collected for disposal or recycle. The permit also imposes requirements for corrective action of contaminated soils and groundwater at the site, including provisions requiring any other SWMU at the facility be addressed, should others be identified at a later time.

IV. SUMMARY OF PROPOSED MODIFICATIONS

The proposed modification to the ASPA Permit includes the removal of a sold parcel of contiguous property and the correction of minor errors shown on the contiguous property maps displayed on Figure 22 of the Permit Application and Figure 3 of the CMIP. The parcel of land, which includes a portion of both the former Frascati Property and Area of Concern (AOC) 6, was transferred from ASPA to Merchants Alabama, LLC on September 20, 2018 via a Statutory Warranty Deed. The subject property is outlined in the Lawler and Company Property Boundary Survey.

V. CHANGES TO THE EXISTING PERMIT

The specific changes to the permit are explained below.

<u>Section/Appendix</u>	<u>Reason</u>
Permit, Brown Cover Page	Addition of Modification 3 Issuance Date
Permit, Signatory Sheet	Addition of Modification 3 Amendment Dates
Permit, Table of Contents	Addition of Modification 3 Amendment Dates
Permit Application, Certification Statement	Signature and date required for Modification 3 revisions
Permit Application, Figures	Figure 22 will be modified to remove a sold portion of the contiguous property and to correct minor errors on the facility boundary line.
CMIP, Certification Statement	Signature and date required for Modification 3 revisions
CMIP, Figures	Figure 3 will be modified to remove a sold portion of the contiguous property and to correct minor errors on the facility boundary line.

VI. TECHNICAL CONTACT

For questions regarding the technical content of this proposed permit modification, please contact:

Kaneshia Townsend
Remediation Engineering Section
Governmental Hazardous Waste Branch, Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd 36110-2059
P.O. Box 301463 36130-1463
Montgomery, Alabama
334-394-4356

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

NOTICE OF PROPOSED MODIFICATION OF THE HAZARDOUS WASTE PERMIT UNDER THE ALABAMA HAZARDOUS WASTES MANAGEMENT AND MINIMIZATION ACT (AHWMMA) AND REQUEST FOR COMMENTS

PUBLIC NOTICE – 421

Mobile County

Alabama State Port Authority (ASPA) of Mobile, Alabama submitted to ADEM an application for modification of its Hazardous Waste Permit for the solid waste management units that were used to manage hazardous wastes at its facility (**EPA I.D. Number ALD 058 221 326**) located at **68 Virginia Street, Mobile, Alabama 36603**. The Department has determined the facility's modification application to be complete and has prepared a draft permit in accordance with State regulations.

ASPA currently leases out the land for use as a container terminal where cargo containers are transshipped between different vessels or vehicles. ASPA is the owner, and the Mobile Container Terminal operates the facility. The permit modification was requested to revise the facility boundary to remove sold portions of the contiguous property from the permit and to correct minor errors displayed on the contiguous property map. In addition, the proposed permit modification includes provisions that require any other solid waste management units and areas of concern at the facility to be addressed.

Copies of the fact sheet, permit modification application and draft AHWMMA permit are available for public inspection electronically via <http://adem.alabama.gov/newsEvents/publicNotices.cnt> and at the following location Monday – Friday (except legal holidays) during the hours of 8:00 a.m. to 5:00 p.m. A nominal fee for copying and/or mailing may be charged. Arrangements for copying should be made in advance.

**Russell A. Kelly, Chief
Permits and Services Division
ADEM
1400 Coliseum Blvd.
Montgomery, Alabama 36110-2400
[Mailing address: P.O. Box 301463; Zip 36130-1463]
(334) 271-7714**

Persons wishing to comment may do so, in writing, to the Department's named contact above within 45 days following the publication date of this notice. In order to affect final decisions, comments must offer technically substantial information that is applicable to the proposed permit.

A written request for a public hearing may also be filed within that 45-day period and must state the nature of the issues proposed to be raised in the hearing. The Director shall hold a public hearing upon receipt of a significant number of technical requests.

After consideration of all written comments, review of any public hearing record, and consideration of the requirements of the AHWMMA, the Federal Resource, Conservation and Recovery Act (RCRA) and applicable regulations, the Department will make a final determination. The Department will develop a response to comments, which will become part of the public record and will be available to persons upon request. Notice will be sent to any person requesting notice of the final action.

The Department maintains a list of interested individuals who are mailed legal notices regarding proposed permits. If you wish to receive such notices, contact the Permits & Services Division via telephone (334-271-7714), e-mail (permitsmail@adem.alabama.gov), or postal service (P.O. Box 301463, Montgomery, AL 36130-1463).

This notice is hereby given this **31st day of July, 2019** by authorization of the Alabama Department of Environmental Management.



**Lance R. LeFleur
Director**

Nondiscrimination Statement: The Department does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in the administration of its programs.

HAZARDOUS WASTE FACILITY PERMIT

PERMITTEE: ALABAMA STATE PORT AUTHORITY

PHYSICAL ADDRESS: 68 Virginia Street
Mobile, Alabama 36603

PERMIT NUMBER: ALD 058 221 326

UNITS PERMITTED: Post Closure Care – 2 UNITS

ISSUANCE DATE: September 30, 2014
Modification 1 – August 13, 2018
Modification 2 – August 24, 2018
Modification 3 – To Be Determined

EXPIRATION DATE: September 30, 2024

This Permit is issued pursuant with the Code of Alabama 1975, §§ 22-30-1-et. seq., as amended, and regulations adopted thereunder and the Hazardous Wastes Management and Minimization Act and in accordance with the plans and specifications and applications filed with the Department subject to the conditions appended hereto, all of which are considered a part of this Permit. This Permit shall be subject to all applicable laws of the State of Alabama, rules and regulations and orders of the Department of Environmental Management and shall be effective from the date of issuance.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
HAZARDOUS WASTE PERMIT

<u>Permittee:</u>	<u>Permit Number:</u>	<u>ALD 058 221 326</u>
<u>OWNER and Operator:</u>	<u>Identification Number:</u>	<u>ALD 058 221 326</u>
<u>Alabama State Port Authority</u>		
<u>P.O. Box 1588</u>		
<u>Mobile, Alabama 36633-1588</u>		
<u>Mobile County</u>		

Pursuant to the Alabama Hazardous Wastes Management and Minimization Act (AHWMMA), Code of Ala. 1975, Section 22-30-1, et. seq., as amended, and attendant regulations promulgated thereunder by the Alabama Department of Environmental Management (ADEM or the Department), a permit is issued to Alabama State Port Authority (ASPA) for the former Alabama Wood Treating Corporation (AWTC) for the facility located in Mobile, Alabama, at latitude N 30° 40' 08" and longitude W 88° 02' 20".

The Permittee must comply with all terms and conditions of this permit, which consists of the conditions set forth herein (including those in any attachments), and the regulations applicable to the Permittee's facility contained in Chapters 335-14-1, 335-14-2, 335-14-5, 335-14-8, and 335-14-9 of the ADEM Administrative Code of Regulations (hereinafter referred to as the "ADEM Admin. Code r."). Applicable regulations are those which are in effect on the date of issuance of this permit.

This permit is based on the assumption that the information submitted in the permit application attached to the Permittee's letter dated February 22, 2013, as modified by subsequent amendments dated October 25, 2013, July 31, 2014, August 13, 2014, December 18, 2015, August 23, 2016, May 18, 2017, October 4, 2017, November 13, 2017, November 21, 2017, January 5, 2018, March 9, 2018, June 8, 2018, June 12, 2019, and June 26, 2019 (hereby incorporated by reference and hereafter referred to as the Application) is accurate and that the facility will be constructed and operated as specified in the Application. Any inaccuracies found in this information could lead to the termination or modification of this permit in accordance with ADEM Admin. Code r. 335-14-8-.04(2), 335-14-8-.04(3), and 335-14-8-.04(4) and could lead to potential enforcement action. The Permittee must inform ADEM of any deviation from or changes in the information provided in the Application that would affect the Permittee's ability to comply with the applicable regulations or permit conditions.

This permit is effective as of September 30, 2014, as amended on August 13, 2018, August 24, 2018, and [Date TBD], and shall remain in effect until September 30, 2024 unless revoked and reissued, or terminated under ADEM Admin. Code r. 335-14-8-.04(2) and 335-14-8-.04(4) or continued in accordance with ADEM Admin. Code r. 335-14-8-.05(2).

Alabama Department of Environmental Management

Date Signed

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Documents Incorporated By Reference:

Part A and Part B Permit Application submitted on February 22, 2013, as modified by subsequent amendments dated October 25, 2013, July 13, 2014, August 13, 2014, December 18, 2015, August 23, 2016, May 18, 2017, October 4, 2017, November 13, 2017, November 21, 2017, and January 5, 2018, March 9, 2018, June 8, 2018, June 12, 2019, and June 26, 2019.

Corrective Measures Implementation Plan submitted on December 18, 2002, as modified by subsequent amendments dated February 13, 2003, March 4, 2008, April 2011, August 13, 2014, December 18, 2015, and March 9, 2018, May 3, 2018, June 8, 2018, June 18, 2018, June 12, 2019, and June 26, 2019.

Corrective Measures Implementation Report submitted on July 25, 2005, as modified by subsequent amendments dated June 30, 2011 and October 14, 2014.

Technical Plan Alabama Wood Treating Corporation SWMU 6 West Site Ezra Trice Bypass Rail Tracks Construction Project dated April 14, 2011.

PART I

STANDARD AND GENERAL FACILITY CONDITIONS

I.A. EFFECT OF PERMIT

Issuance of this permit does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any action brought under the AHWMMMA, or any other law governing the protection of public health or the environment, for any imminent and substantial endangerment to human health, welfare, or the environment.

I.B. SEVERABILITY

The provisions of this permit are severable and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

I.C. DUTIES AND REQUIREMENTS

1. Duty to Comply

The Permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance, other than noncompliance authorized by an emergency permit, constitutes a violation of the AHWMMMA, and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

2. Duty to Reapply

a. If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit.

b. The Permittee must submit an application for a new permit for both post-closure and Solid Waste Management Unit (SWMU) corrective measures at least 180 calendar days before the expiration of this permit. The Permittee must reapply in order to fulfill the 30-year post-closure care period required by ADEM Admin. Code r. 335-14-5-.07(8)(a)1. The Department may shorten or extend the post-closure care period applicable to the hazardous waste facility in accordance with ADEM Admin. Code r. 335-14-5-.07(8)(a)2. and 335-14-8-.03(1)(b).

3. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to Mitigate

In the event of noncompliance with this permit, the Permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.

5. Proper Operation and Maintenance

The Permittee shall, at all times, properly operate and maintain all facilities and systems of treatment, monitoring, and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance (O&M) includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

6. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause as specified in ADEM Admin. Code r. 335-14-8-.04(2), 335-14-8-.04(3), and 335-14-8-.04(4). The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay any permit condition.

7. Property Rights

Issuance of this permit does not convey any property rights of any sort, nor any exclusive privilege.

8. Duty to Provide Information

The Permittee shall furnish to the Department, within a reasonable time as determined by the Department, any relevant information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

9. Inspection and Entry

The Permittee shall allow duly designated officers and employees of the Department or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter at reasonable times upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and,
 - d. Sample or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the AHWMMMA, any substances or parameters at any location. The Permittee shall have the opportunity to split samples during sampling.
10. Monitoring and Records
- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample of the waste to be analyzed must be the appropriate method from ADEM Admin. Code r. 335-14-2-Appendix I or the methods specified in Table 8 of the permit application. Laboratory methods must be those specified in Test Methods for Evaluating Solid Waste: Physical/Chemical Methods SW-846 (latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Standard Methods for the Examination of Water and Wastewater (latest edition), the methods specified in Table 8 of the permit application, or an alternative method approved by ADEM. [ADEM Admin. Code r. 335-14-8-.03(1)(j)1.]
 - b. The Permittee shall maintain at the facility records of all monitoring information including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, the certification required by ADEM Admin. Code r. 335-14-5-.05(4)(b)9., records of all data used to prepare documents required by this permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the certification, application, sample, measurement, report or record, or until corrective action is completed, whichever date is later. This period may be extended by the Department at any time and is automatically extended during the course of any unresolved enforcement action regarding this facility. [ADEM Admin. Code r. 335-14-5-.05(5)(b) and 335-14-8-.03(1)(j)2.]
 - c. The Permittee shall maintain, at the facility, records of all groundwater monitoring wells, piezometers, and associated groundwater surface elevations throughout the post-closure care period. These records shall include the surveyed location, surveyed elevation, surveyed elevation reference point, total depth, screened interval, construction details, well log, and all other pertinent information for each well and piezometer.
 - d. Records for monitoring information shall include:
 - i. The date(s), exact place, and times of sampling or measurements;
 - ii. The names of individual(s) who performed the sampling or measurements;

- iii. The date(s) analyses were performed;
 - iv. The names of individual(s) who performed the analyses;
 - v. The analytical techniques or methods used; and,
 - vi. The results of such analyses.
- e. The following documents and information shall be maintained throughout the post-closure care period at the Facility.
- i. Complete copy of this permit and the permit application.
 - ii. Operating record as required by ADEM Admin. Code r. 335-14-5-.05(4) and this permit.
 - iii. Copies of all plans, reports, inspection schedules, inspection logs as required by ADEM Admin. Code r. 335-14-5 and this permit.

11. Signatory Requirements

All applications, reports or information required by this permit and submitted to the Department shall be signed and certified in accordance with ADEM Admin. Code r. 335-14-8-.02(2) and 335-14-8-.03(1)(k).

12. Reporting Requirements

a. Planned Changes

The Permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility and any solid waste management units identified under Part IV of this permit.

b. Anticipated Noncompliance

The Permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

c. Transfer of Permits

This permit may be transferred to a new owner or operator only if it is modified or revoked and reissued pursuant to ADEM Admin. Code r. 335-14-8-.04(1) or 335-14-8-.04(3)(a)1.(vii). Before transferring ownership or operation of the facility during its post-closure period, the Permittee shall notify the new owner or operator, in writing, of the requirements of ADEM Admin. Code r. 335-14-5 and 335-14-8 and this permit.

d. Monitoring Reports

Monitoring results shall be reported at the intervals specified elsewhere in this permit.

e. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted to the Department no later than 14 calendar days following each schedule date.

f. Twenty-Four Hour Reporting

i. The Permittee shall report to the Department any noncompliance with this permit that may endanger human health or the environment. Any such information shall be reported orally within 24 hours from the time the Permittee becomes aware of the circumstances. This report shall include, but is not limited to, the following:

- (I) Information concerning the release of any hazardous waste which may endanger public drinking water supplies; and,
- (II) Information concerning the release or discharge of any hazardous waste, or hazardous waste constituents, or of a fire or explosion at the facility, which could threaten the environment or human health outside the facility.

ii. The description of the occurrence and its cause shall include:

- (I) Name, address, and telephone number of the owner or operator;
- (II) Name, address, telephone number, and EPA Identification Number of the facility;
- (III) Date, time, and type of incident;
- (IV) Name and quantity of material(s) involved;
- (V) The extent of injuries, if any;
- (VI) An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and,
- (VII) Estimated quantity and disposition of recovered material that resulted from the accident.

iii. A written submission shall also be provided within 5 calendar days of the time that the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the periods of noncompliance (including exact dates and times); whether the noncompliance has been corrected, and if not, the anticipated

time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

g. Other Noncompliance

The Permittee shall report to the Department all instances of noncompliance not otherwise required by Permit Conditions I.C.12.d., I.C.12.e., or I.C.12.f. at the time any other reports required by this permit are submitted. The reports shall contain the information required by Permit Condition I.C.12.f.

h. Other Information

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information. In addition, upon request, the Permittee shall furnish to the Department any information related to compliance with this permit.

13. Certification of Construction

The Permittee may not commence treatment, storage or disposal of hazardous waste or contaminated media at any new or modified portion of the facility until the Permittee has submitted to the Department, by certified mail or hand-delivery, a letter (together with the certification by the Construction Quality Assurance (CQA) officer required by ADEM Admin. Code r. 335-14-5-.02(10)(d) and any other certifications required by this permit or ADEM Admin. Code r. 335-14) signed by the Permittee and an Alabama-registered professional engineer, stating that the facility has been constructed or modified in compliance with this permit where appropriate; and,

a. The Department has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of this permit; or

b. The Department has either waived the inspection or has not notified the Permittee, within 15 calendar days of the notification from the Permittee, of its intent to inspect. [ADEM Admin. Code r. 335-14-8-.03(1)(1)2.]

14. The Permittee shall assure that all measures necessary to maintain and/or achieve compliance with all applicable requirements of ADEM Admin. Code r. 335-14 are taken during the active life of the facility and throughout the post-closure care period, corrective action period, and the term of this permit.

15. In the event that circumstances beyond the Permittee's control arise to prevent achievement of any deadline set forth by this permit, the Permittee may immediately, upon the occurrence thereof, request an extension by sending a written request to the Department explaining the need for the extension. The Department may, after consideration of the circumstances, grant the extension. Requests for extensions may require a permit modification pursuant to ADEM Admin. Code r. 335-14-8-.04(2) or (3).

I.D. DEFINITIONS

For the purposes of this permit, terms used herein shall have the same meaning as those in ADEM Admin. Code r. 335-14-1, 335-14-2, 335-14-5, and 335-14-8, unless this permit specifically provides otherwise. Where terms are not defined in the regulations or this permit, a standard dictionary reference or the generally accepted scientific or industrial meaning of the term shall define the meaning associated with such terms.

"Area of concern" (AOC), for the purposes of this permit, includes any area having a probable release of a hazardous waste or hazardous constituent which is not from a solid waste management unit and is determined by the Department to pose a current or potential threat to human health or the environment. Such areas of concern may require investigations and remedial action as required under Section 3005(c)(3) of the Resource Conservation and Recovery Act and ADEM Admin. Code r. 335-14-8-.03(3)(b)2. in order to ensure adequate protection of human health and the environment.

"Contamination," for the purposes of this permit, refers to the presence of any hazardous constituent in a concentration that exceeds the naturally occurring concentration of that constituent in the immediate vicinity of the facility (*i.e.*, areas not affected by the facility).

"Extent of contamination," for the purposes of this permit, is defined as the horizontal and vertical areas in which the concentrations of hazardous constituents in the environmental media being investigated are above detection limits or background concentrations indicative of the region, whichever is appropriate as determined by the Department.

"Hazardous constituents," for the purposes of this permit, are those substances listed in ADEM Admin. Code r. 335-14-2-Appendix VIII and/or ADEM Admin. Code r. 335-14-5-Appendix IX and include hazardous constituents released from solid waste, hazardous waste, and hazardous waste constituents that are reaction by-products.

"Land Use Controls," for the purposes of this permit, is as defined by ADEM Admin. Code r. 335-5-1-.03.

"Method detection limit" (MDL), for the purposes of this permit, means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

"Mixed waste," for the purposes of this permit, means a solid waste that is a mixture of hazardous waste (as defined in ADEM Admin. Code r. 335-14-2-.01(3)) and radioactive waste (as defined in 10 CFR 61.2). The radioactive component of mixed waste is subject to regulation by the Atomic Energy Act (AEA)/Nuclear Regulatory Commission (NRC). The non-radioactive chemically hazardous component of mixed waste is subject to regulation by the AHWMA and ADEM Admin. Code r. 335-14.

"Operating day," for the purposes of this permit, means any day on which hazardous waste is treated, stored, or disposed of in a unit. For example, each day that a hazardous waste storage unit contains hazardous waste is an operating day; as is each day that a disposal unit contains or receives hazardous waste, or each day that hazardous waste is treated in a treatment unit.

"Release," for the purposes of this permit, includes any spilling, leaking, pouring, emitting, emptying, discharging, injecting, escaping, leaching, pumping, or disposing into the environment of any hazardous waste or hazardous constituent.

"Solid waste management unit" (SWMU), for the purposes of this permit, includes any unit that has been used for the treatment, storage or disposal of solid waste at any time, irrespective of whether the unit is or ever was intended for the management of solid waste. RCRA-regulated hazardous waste management units are also solid waste management units. SWMUs include areas that have been contaminated by routine and systematic releases of hazardous waste or hazardous constituents, excluding one-time accidental spills that are immediately remediated and cannot be linked to solid waste management activities (e.g., product or process spills).

"Storm event," for the purposes of this permit, is defined as a 1-year, 24-hour storm event or rainfall that measures 1-inch or greater in 1 hour or less. Rainfall measurements may be taken at the site, or the closest official weather monitoring station may be used.

I.E. EXPIRATION AND CONTINUATION OF PERMIT

This permit and all conditions herein will remain in effect beyond this permit's expiration date if the Permittee has submitted a new application as required by Permit Condition I.C.2. and, through no fault of the Permittee, the Department has not issued a new permit.

I.F. WASTE MINIMIZATION

1. Certification Requirements

Pursuant to ADEM Admin. Code r. 335-14-5-.05(4)(b)9., the Permittee must certify, no less often than annually, that:

- a. The Permittee has a program in place to reduce the volume and toxicity of hazardous waste to the degree determined by the Permittee to be economically practicable; and,
- b. The proposed method of treatment, storage or disposal is the most practicable method available to the Permittee and that it minimizes the present and future threat to human health and the environment.

2. Recording Requirements

The Permittee shall maintain copies of this certification in the facility operating record as required by ADEM Admin. Code r. 335-14-5-.05(4).

I.G. COST ESTIMATES

1. The Permittee shall maintain detailed written cost estimates, in current dollars, at the location specified in Permit Condition I.C.10.e. and on file with ADEM in accordance with ADEM Admin. Code r. 335-14-5-.08(3), (5), and (10).
2. All cost estimates must be updated annually as required by ADEM Admin. Code r. 335-14-5-.08(3)(b), 335-14-5-.08(5)(b), and 335-14-5-.08(10)(b).
3. The cost estimate shall be maintained and submitted in the form designated by the Department.
4. The Permittee must update the cost estimate no later than 30 calendar days after the Department has approved a modification to the Closure Plan, Post-Closure Plan, or Corrective Action Plan, or any other plan required or referenced by this permit, if the change in the plan results in an increase in the amount of the cost estimate.

I.H. FINANCIAL ASSURANCE (RESERVED)

I.I. PERMIT MODIFICATIONS

The Permittee shall request a permit modification whenever changes in operating plans or facility design affect any plan (*e.g.*, closure, groundwater monitoring, post-closure, or corrective action) required or referenced by this permit. The Permittee must submit a written request for a permit modification, pursuant to the requirements of ADEM Admin. Code r. 335-14-8-.04(2), at least 60 calendar days prior to the proposed change in the facility design or operation.

I.J. REPORTS, NOTIFICATIONS, AND SUBMISSIONS TO THE DEPARTMENT

One (two for documents required to be placed on public notice) hard copy and one electronic (an optical character recognition or text-searchable) copy of all reports, notifications, or other submissions that are required by this permit should be sent via certified mail or given to:

Chief, Land Division
Alabama Department of Environmental Management
P.O. Box 301463 (Zip 36130-1463)
1400 Coliseum Boulevard (Zip 36110-2059)
Montgomery, Alabama

and

Director, RCRA Division
USEPA Region 4
Atlanta Federal Center
61 Forsyth Street SW
Atlanta, Georgia 30303-3104

PART II
POST-CLOSURE CARE

II.A. POST-CLOSURE CARE PERIOD

The post-closure care period shall extend for a period of thirty (30) years after the date of issuance of a post-closure permit unless shortened or extended pursuant to ADEM Admin. Code r. 335-14-5-.07(8). The post-closure care period shall automatically extend through the end of the compliance period specified in Part III. of this permit.

II.B. POST-CLOSURE PROCEDURES AND USE OF PROPERTY

1. Post-Closure Activities

The Permittee shall conduct post-closure care activities, in accordance with Sections 5 and 6 of the permit application and as required by ADEM Admin. Code r. 335-14-5-.07 and 335-14-5-.14(11)(d), for each hazardous waste management unit listed in Table II.1. Post-closure care shall commence upon the effective date of this permit and shall continue throughout the post-closure care period.

2. Security

The Permittee shall comply with the security provisions of ADEM Admin. Code r. 335-14-5-.02(5) and as described in Section 6 of the permit application.

3. Disturbance of Closed Unit(s)

The Permittee shall not allow the disturbance of the integrity of the final cover, liners, any components of the containment system, or the function of the facility's monitoring systems during the post-closure care period for any unit identified in Table II.1.

4. The Permittee shall:

- a. Maintain the integrity and effectiveness of the landfills' final cover, including making repairs to the cap, as necessary, to correct the effects of settling, subsidence, erosion, or other events;
- b. Maintain and monitor the groundwater monitoring system and comply with all other applicable requirements of ADEM Admin. Code r. 335-14-5-.06 and Part III. of this permit;
- c. Prevent run-on and run-off from eroding or otherwise damaging the final cover; and,
- d. Protect and maintain surveyed benchmarks used in complying with the surveying and recordkeeping requirements of ADEM Admin. Code r. 335-14-5-.14(10).

II.C. INSPECTIONS

1. The Permittee shall inspect the components, structures, and equipment at the site in accordance with the inspection schedule as described in Section 6 of the permit application, the post-closure care plan as described in Sections 5 and 6 of the permit application, and as required by ADEM Admin. Code r. 335-14-5-.07.

2. Monitoring and Inspection

The Permittee shall inspect the closed hazardous waste management units listed in Table II.1 at least annually and after storms to detect any evidence of deterioration or improper operation as described in Section 6 of the permit application and as required under ADEM Admin. Code r. 335-14-5-.07 and 335-14-5-.14. The inspections shall specifically include evaluation of the following items:

- a. Integrity of the final cover (erosion, ponding, subsidence, cracking, *etc.*);
 - b. Run-on and run-off control system;
 - c. Groundwater monitoring wells; and,
 - d. Survey benchmarks.
3. The Permittee shall inspect the solid waste management units at the facility in accordance with Appendix C of the Corrective Measures Implementation (CMI) Work Plan and Condition II.C.2.
 4. The Permittee shall conduct site inspections at least semi-annually of all contiguous properties that are owned or operated by Alabama State Port Authority.

TABLE II.1.
POST-CLOSURE CARE UNITS

UNIT NAME [*]	UNIT DESCRIPTION	CLOSED-IN-PLACE CAPACITY (QUANTITY)	DESCRIPTION OF UNIT ^{**}	LOCATION OF UNIT ^{**}
SWMU 2	Surface Impoundment	106 cu. yds. ¹	Section 2	Figure 3
SWMU 7	Overflow Impoundment Area	106 cu. yds. ¹	Section 2	Figure 3

1. The Certification of Closure contained in Appendix C of the permit application indicates that a total of 106 cubic yards of material that was once in contact with K001 waste was closed in place. The assumption is that this is a total amount for both regulated units and not the individual amounts.

* SWMUs 2 and 7 were closed under a singled engineered cap.

** Location in permit application containing description (text) and location (figure) of unit.

PART III

GROUNDWATER MONITORING AND CORRECTIVE ACTION

III.A. REQUIRED PROGRAM(S)

1. Groundwater monitoring shall consist of the General Groundwater Monitoring Program of Permit Condition III.B. and the Compliance Monitoring Program contained in Permit Condition III.D and the Corrective Action Monitoring Program contained in Permit Condition III.E.
2. The Permittee shall commence groundwater monitoring as required by this permit not later than 120 calendar days after the effective date of this permit.

III.B. GENERAL GROUNDWATER MONITORING PROGRAM

1. Well Location, Installation and Construction

The Permittee shall install and/or maintain a groundwater monitoring system to comply with the requirements of ADEM Admin. Code r. 335-14-5-.06(8), 335-14-5-.06(9), 335-14-5-.06(10), and 335-14-5-.06(11) as applicable and as specified below:

- a. The Permittee shall maintain all groundwater monitoring wells at the facility as identified in Table III.1. of this permit, at the locations specified on Figure 8B of the permit application, and any other groundwater monitoring wells specified by Permit Condition III.B.1.h.
 - i. All groundwater monitoring wells shall be maintained in accordance with the plans and specifications presented in Section 5 of the permit application and/or CMI Plan, and in accordance with ADEM Admin. Code r. 335-14-5-.06.
 - ii. A groundwater monitoring well shall not be removed from any monitoring program specified in this permit without an approved permit modification pursuant to Permit Condition I.I.
 - iii. If a groundwater monitoring well is damaged, the Permittee shall immediately notify the Department in writing, which includes a description of the well repair activities to be conducted. The well repair procedures must be approved by the Department prior to implementation. Within 30 calendar days after the well is repaired, the Permittee shall submit a written notification to the Department that the well repair activities were conducted in accordance with the approved procedures.
 - iv. If a groundwater monitoring well is deleted from the monitoring program(s) required by this permit in accordance with Permit Conditions III.B.1.a.ii. and I.I., it shall be abandoned within 90 calendar days after deletion using procedures to be approved by the Department. Within 30 calendar days after the well is abandoned, the Permittee shall submit a

written notification to the Department that the well abandonment activities were conducted in accordance with the approved procedures.

- b. Groundwater monitoring wells 7-S, 7-IR, 7-D, 8-S, 8-I, 8-D, 9-I, 15-S, 15-I, 15-D, 16-I, 16-D, 31-I, 31-D, 32-S, and 32-I shall be maintained as point of compliance wells as specified in Table III.1. of this permit and as shown on Figure 8B of the permit application.
- c. Monitoring wells 6-S, 6-I, 11-S, 11-I, 12-I, 13-I, 17-D, 18-DR, 21-I, 23-I, 23-D, 25-I, and 26-I shall be maintained as effectiveness wells as specified in Table III.1. of this permit and as shown on Figure 8B of the permit application..
- d. The Permittee shall maintain groundwater monitoring well 19-SR as the background monitoring well for the entire facility as specified in Table III.1. of this permit and as shown on Figure 8B of the permit application.
- e. Monitoring wells 9-I, 16-I, 16-D, 32-S, 32-I, 31-IR, and 31-DR shall be maintained and sampled annually as boundary wells for the entire facility as specified in Table III.1. of this permit and as shown on Figure 8B of the permit application..
- f. Monitoring wells 4-D, 4-DK, 17-S, 18-IR, 20-I, 21-S, RW-1, RW-3, RW-4, RW-5, RW-6, RW-7, and RW-8 shall be maintained as DNAPL product recovery wells as specified in Table III.1. of this permit and as shown on Figure 8B of the permit application.
- g. Piezometers PZ-1-S, PZ-1-D, PZ-13-D, PZ-16-S, PZ-19-I, and PZ-30-D shall be maintained and sampled semi-annually to obtain groundwater elevations to be used for the annual determination of groundwater flow rate and direction as required by ADEM Admin. Code R 335-14-5-.6(8)(f).
- h. The Permittee shall install and maintain additional groundwater monitoring wells as necessary to assess changes in the rate and extent of any plume of contamination or as otherwise deemed necessary to maintain compliance with ADEM Admin. Code r. 335-14-5-.06(6), 335-14-5-.06(8), 335-14-5-.06(9), 335-14-5-.06(10), and 335-14-5-.06(11), as applicable. A plan in the form of a permit modification request specifying the design, location and installation of any additional monitoring wells should be submitted to the Department at least 90 calendar days prior to installation which, at a minimum, shall include:
 - i. Well construction techniques including casing depths and proposed total depth of well(s);
 - ii. Well development method(s);
 - iii. A complete description of well construction materials;
 - iv. A schedule of implementation for construction; and,

- v. Provisions for determining the lithologic characteristics, hydraulic conductivity, grain size distribution, and porosity for the applicable aquifer unit(s) at the location of the new well(s).

2. General Groundwater Monitoring Requirements

- a. The Permittee shall determine the groundwater surface elevation from all monitoring wells listed in Table III.1. of this permit at least annually and each time a sampling event is conducted. The results of these determinations should be submitted in accordance with Permit Condition III.B.6. Elevation data should be recorded and reported as mean sea level (MSL) and referenced to an appropriate North American Vertical Datum (NAVD) benchmark.
- b. The Permittee shall determine the groundwater flow rate and direction in the underlying aquifer(s) at least annually and submit the results in accordance with Permit Condition III.B.6.
- c. The Permittee shall determine background concentrations of hazardous constituents and other chemical parameters required to be monitored by this permit in accordance with Section 5 of the permit application and ADEM Admin. Code r. 335-14-5-.06(8)(g).

3. Groundwater Protection Standard

- a. The groundwater protection standard, as required under ADEM Admin. Code r. 335-14-5-.06(3), shall consist of Table III.3 of this permit which lists the hazardous constituents and their respective concentration limits.
- b. The groundwater protection standard applies to all hazardous waste or hazardous constituent releases as deemed appropriate by the Department to protect human health and the environment.

4. Compliance Period

- a. The compliance period, during which the groundwater protection standard specified in Permit Condition III.B.3. applies, shall begin at the time of the first sampling event of the compliance monitoring program (Permit Condition III.D.), or the corrective action monitoring program (Permit Condition III.E.), whichever is earlier.
- b. The compliance period shall continue (after beginning pursuant to Permit Condition III.B.4.a.) until the groundwater protection standard as defined by Permit Condition III.B.3.a. has not been exceeded for a period of three consecutive years.
- c. If the Permittee is engaged in a corrective action program pursuant to Permit Condition III.E., then the compliance period shall continue as required by ADEM Admin. Code r. 335-14-5-.06(7)(c) until the groundwater protection standard has

not been exceeded for a period of three consecutive years after corrective action has been terminated and this permit has been modified, in accordance with Permit Condition III.I., to implement a compliance monitoring program pursuant to Permit Condition III.D. or a detection monitoring program pursuant to Permit Condition III.C., as required by ADEM Admin. Code r. 335-14-5-.06(11)(f).

5. Sampling and Analysis Procedures

The Permittee shall use the following techniques and procedures when obtaining and analyzing samples from the groundwater monitoring wells described in Permit Condition III.B.1. to provide a reliable indication of the quality of the groundwater as required under ADEM Admin. Code r. 335-14-5-.06(8)(d), (e), and (g):

- a. Samples shall be collected, preserved, and shipped (when shipped off-site for analysis) in accordance with the procedures specified in Section 5.9.2 of the permit application.
- b. Samples shall be analyzed according to the procedures specified in Section 5.9.2 of the permit application, the most recent edition of SW-846 or other appropriate methods approved by the Department. Analytical method detection limits shall be less than or equal to the concentration limits specified in Table III.2 or III.3, unless otherwise approved in writing by the Department.
- c. Samples shall be tracked and controlled using the chain-of-custody procedures specified in Section 5.9.2 of the permit application.
- d. Statistical analyses used to evaluate the groundwater monitoring data shall be as described in Section 5.9.3 of the permit application and ADEM Admin. Code r. 335-14-5-.06(8)(h).
- e. All samples collected in accordance with this permit shall not be filtered prior to analysis.

6. Recordkeeping and Reporting

- a. The Permittee shall keep and maintain all monitoring, testing, and analytical data obtained in accordance with Permit Conditions III.B., III.C., III.D., and III.E. as required by Permit Condition I.C.10.
- b. The Permittee shall submit to the Department a written report to include all analytical sampling data, established background values, statistical evaluations, groundwater elevations, associated potentiometric maps, and the annual groundwater flow rate and direction determinations. The analytical method and the method detection limit (MDL) for each constituent must be integrated into all reports of analysis. The report shall be submitted within 60 calendar days after the first sampling event and on an annual basis thereafter. Copies of this report shall be kept at the facility in accordance with Permit Conditions I.C.10.c. and I.C.10.e.
- c. The Permittee shall submit progress reports to the Department describing implementation of groundwater monitoring and/or corrective action activities at

the site as required by Part III of this permit on a quarterly basis. The first progress report shall be submitted to the Department within 90 calendar days after the effective date of this permit. The progress reports shall continue until such time as the required monitoring and/or corrective action systems and activities required by this permit are fully constructed and operational. In the event that additional monitoring and/or corrective action requirements are imposed through a permit modification, in accordance with Permit Condition I.I., the quarterly reporting requirement shall resume, commencing upon the effective date of the permit modification and continuing until the required monitoring and/or corrective action systems and activities are again fully constructed and operational.

III.C. DETECTION MONITORING PROGRAM (RESERVED)

III.D. COMPLIANCE MONITORING PROGRAM

The requirements of this Condition are applicable to SWMUs 2, 4, 5, 6, 7, and 8. Except as specified otherwise in this permit, the Compliance Monitoring Program shall be implemented in accordance with Section 5 of the permit application and ADEM Admin. Code r. 335-14-5-.06(10).

1. Monitoring Requirements

In addition to the general groundwater monitoring requirements specified in Permit Condition III.B.2., the Permittee shall:

- a. Sample all point of compliance, boundary, and background wells and analyze for the constituents listed in Table III.3. of this permit, on an annual basis in accordance with Permit Condition III.B.5. throughout the compliance monitoring period. The annual sampling event is scheduled for the month of June.
- b. Sample and analyze for temperature (degrees F or C), specific conductance (Mhos/cm), and pH (standard units), at all background and point of compliance monitoring well locations each time the well is sampled in accordance with Permit Condition III.B.5. The data obtained should be submitted as raw data in the reports required by Permit Condition III.B.6.
- c. Sample point of compliance, boundary, and background wells and analyze, in accordance with Permit Condition III.B.5., for the constituents listed in ADEM Admin. Code r. 335-14-5-Appendix IX, at the beginning of the compliance period and thereafter on an annual basis throughout the compliance period. See Table 9 of the Permit Application for the specific sampling schedule for each groundwater well.

2. Reporting and Response Requirements

In addition to the recordkeeping and reporting requirements specified in Permit Condition III.B.6., the Permittee shall perform statistical evaluation of monitoring well analytical

data for each monitoring event pursuant to Permit Condition III.B.5. and ADEM Admin. Code r. 335-14-5-.06(10)(d).

- a. If the Permittee determines, pursuant to Permit Conditions III.D.1.c. and III.B.5. and ADEM Admin. Code r. 335-14-5-.06(10)(d) and 335-14-5-.06(10)(g), that any constituent(s) listed in ADEM Admin. Code r. 335-14-5-Appendix IX but not listed in Table III.3 of this permit is detected at any point of compliance or background well, he or she must comply with ADEM Admin. Code r. 335-14-5-.06(10)(g).
- b. If the Permittee determines pursuant to Permit Conditions III.B.5. and III.D.1. and ADEM Admin. Code r. 335-14-5-.06(10)(d) that any concentration limits listed in Table III.3. of this permit exceeded in any monitoring well at the point of compliance, he or she must comply with ADEM Admin. Code r. 335-14-5-.06(10)(h):

III.E. CORRECTIVE ACTION MONITORING PROGRAM

The requirements of this Condition are applicable to to SWMUs 2, 4, 5, 6, 7, and 8. Except as specified otherwise in this permit, the Corrective Action Monitoring Program shall be implemented in accordance with Section 6 of the permit application and ADEM Admin. Code r. 335-14-5-.06(11).

1. Monitoring Systems

The Permittee shall implement and maintain the compliance monitoring well system as specified in Permit Condition III.D.

2. Corrective Action Program

The Permittee shall conduct a corrective action program for DNAPL recovery as specified below and as described in Section 6 of the permit application.

- a. The Permittee shall conduct a Corrective Action Program to remove or treat in place all hazardous constituents that exceed their respective groundwater protection standards as described in Table III.3. of this permit at the point of compliance, between the point of compliance and the down-gradient facility property boundary, and beyond the facility boundary in accordance with ADEM Admin. Code r. 335-14-5-.06(11)(e)2.
- b. Pursuant to ADEM Admin. Code r. 335-14-5-.06(11)(c) and 335-14-5-.06(11)(e)3., the Permittee shall continue to implement the corrective action program as described in Section 6 of the permit application.
- c. The Permittee shall handle or treat groundwater in accordance with Section 6 of the permit application.

3. Monitoring Requirements

In addition to the general groundwater monitoring requirements

specified in Permit Condition III.B.2., the Permittee shall:

- a. Conduct groundwater monitoring as required by Permit Condition III.D.
- b. Monitor effectiveness wells for the presence of DNAPL on a semi-annual basis. Each effectiveness well will be sampled and analyzed as required by Permit Conditions III.D.1.a. and III.D.1.b. following the removal of DNAPL free product. See Section 6 and Table 9 of the permit application regarding DNAPL analysis for selected effectiveness wells.
- c. Recovery wells shall be operated and maintained in accordance with Appendix C of the CMIP.
- d. When evaluating the monitoring results to determine the effectiveness of the corrective measures, in accordance with Permit Condition III.E.4., the Permittee shall:
 - i. Determine if the corrective action system effectively addresses the entire plume of contamination;
 - ii. Determine if the concentration of the hazardous constituents are decreasing (pH increasing or decreasing toward neutrality, as applicable) in the effectiveness wells specified in Permit Condition III.A.1 (following the removal of free product from each individual monitoring well);
 - iii. Determine if hazardous waste or hazardous constituents are being released into the environment; and,
 - iv. Determine if hazardous constituents have been detected in the boundary wells specified in Permit Condition III.A.1.

4. Reporting and Response Requirements

In addition to the recordkeeping and reporting requirements specified in Permit Condition III.B.6.:

- a. The Permittee shall report the effectiveness of the corrective action program annually, as required under ADEM Admin. Code r. 335-14-5-.06(11)(g). These reports shall be submitted to the Department within 60 calendar days of each annual anniversary of this permit after corrective action is initiated and continue until corrective action is completed. The Permittee must provide data from groundwater monitoring along with an analysis of that data and any conclusions regarding the effectiveness of the program in accordance with Permit Condition III.E.3.d. If the analysis of the data warrants any change to the corrective action program, the Permittee must include these revisions in the annual report, which will be followed-up within 90 calendar days with an application for permit modification in accordance with Permit Condition I.I.
- b. If corrective action is terminated under Permit Condition III.B.4.c., the Permittee must sample all background, point of compliance, effectiveness and boundary

sampling locations for the compounds listed in ADEM Admin. Code r. 335-14-5-Appendix IX. Based upon the sampling results, the Permittee may petition the Department, in accordance with Permit Condition I.I., for a permit modification to implement either a detection monitoring program or a compliance monitoring program.

TABLE III.1

MONITORING WELL DESIGNATIONS

WELL NUMBER	WELL TYPE*	WELL LATITUDE	WELL LONGITUDE	UNIT(S) MONITORED	WELL DEPTH (ft)	GROUND ELEVATION (ft. NAVD)	TOP-OF-CASING ELEVATION (ft. NAVD 88)	SCREENED INTERVAL (ft. MSL)	MONITORED ZONE**
4-D	REC	30°40'02.67"	88°02'26.57"	SWMUs 2, 4, 5, 6, 7 & 8	103.3	13.97	13.27	-80.4 to -90.4	Deep
4-DK	REC	30°40'02.67"	88°02'26.38"	SWMUs 2, 4, 5, 6, 7 & 8	100	13.93	12.77	-82.1 to -92.1	Deep
6-S	EFF	30°40'05.10"	88°02'21.18"	SWMUs 2, 4, 5, 6, 7 & 8	19.5	13.68	12.08	-4.3 to -9.3	Upper
6-I	EFF	30°40'05.07"	88°02'21.13"	SWMUs 2, 4, 5, 6, 7 & 8	62.5	13.75	12.09	-42.6 to -52.6	Intermediate
7-S	POC	30°40'08.79"	88°02'08.80"	SWMUs 2, 4, 5, 6, 7 & 8	15	15.41	14.49	2.9 to -7.4	Upper
7-IR	POC	30°40'08.8"	88°02'08.94"	SWMUs 2, 4, 5, 6, 7 & 8	62	15.50	14.90	-42.8 to -52.8	Intermediate
7-D	POC	30°40'08.78"	88°02'08.64"	SWMUs 2, 4, 5, 6, 7 & 8	96.1	15.31	14.52	-76.4 to -86.4	Deep
8-S	POC	30°40'00.24"	88°02'12.15"	SWMUs 2, 4, 5, 6, 7 & 8	15.5	14.87	14.16	6.67 to -3.33	Upper
8-I	POC	30°40'00.24"	88°02'12.22"	SWMUs 2, 4, 5, 6, 7 & 8	70	14.86	14.37	-48.1 to -58.1	Intermediate
8-D	POC	30°40'00.21"	88°02'12.06"	SWMUs 2, 4, 5, 6, 7 & 8	96	14.75	14.17	-76.3 to -86.1	Deep
8-DK	POC	30°40'00.11"	88°02'12.19"	SWMUs 2, 4, 5, 6, 7 & 8	128	14.83	14.31	-105.52 to -115.52	Deep
9-I	BDY/POC	30°39'56.44"	88°02'15.88"	SWMUs 2, 4, 5, 6, 7 & 8	62.5	10.10	TBD†	-40.4 to -50.4	Intermediate
11-S	EFF	30°40'09.96"	88°02'21.14"	SWMUs 2, 4, 5, 6, 7 & 8	15.5	15.11	14.51	6.03 to -3.97	Upper
11-I	EFF	30°40'09.96"	88°02'21.05"	SWMUs 2, 4, 5, 6, 7 & 8	50	14.93	14.44	-30.9 to -40.9	Intermediate

TABLE III.I
(cont.)

WELL NUMBER	WELL TYPE*	WELL LATITUDE	WELL LONGITUDE	UNIT(S) MONITORED	WELL DEPTH (ft)	GROUND ELEVATION (ft. NAVD)	TOP-OF-CASING ELEVATION (ft. NAVD 88)	SCREENED INTERVAL (ft. MSL)	MONITORED ZONE**
12-I	EFF	30°40'09.19"	88°02'13.64"	SWMUs 2, 4, 5, 6, 7 & 8	50	10.10	12.55	-31 to -41	Intermediate
13-I	EFF	30°40'07.4"	88°02'16.20"	SWMUs 2, 4, 5, 6, 7 & 8	50	15.70	13.74	-30.8 to -40.8	Intermediate
15-S	POC	30°40'04.42"	88°02'10.16"	SWMUs 2, 4, 5, 6, 7 & 8	15	14.16	13.56	2.5 to -7.5	Upper
15-I	POC	30°40'04.38"	88°02'10.16"	SWMUs 2, 4, 5, 6, 7 & 8	48.5	14.24	13.55	-31 to -41	Intermediate
15-D	POC	30°40'04.49"	88°02'10.15"	SWMUs 2, 4, 5, 6, 7 & 8	91	14.15	13.56	-73.2 to -83.01	Deep
16-I	BDY/ POC	30°39'54.82"	88°02'23.45"	SWMUs 2, 4, 5, 6, 7 & 8	50	7.30	TBD†	-32.2 to -43.2	Intermediate
16-D	BDY/ POC	30°39'54.81"	88°02'23.45"	SWMUs 2, 4, 5, 6, 7 & 8	106	7.40	TBD†	-85.8 to -95.8	Deep
17-S	REC	30°40'01.84"	88°02'31.87"	SWMUs 2, 4, 5, 6, 7 & 8	15	7.80	10.10	2.5 to -7.5	Upper
17-D	EFF	30°40'01.77"	88°02'31.85"	SWMUs 2, 4, 5, 6, 7 & 8	106	7.70	9.60	-85 to -95	Deep
18-IR	REC	30°40'03.74"	88°02'32.36"	SWMUs 2, 4, 5, 6, 7 & 8	-41.8	10.70	9.60	31.8 to -41.8	Intermediate
18-DR	EFF	30°40'03.84"	88°02'32.39"	SWMUs 2, 4, 5, 6, 7 & 8	-83.3	10.39	10.05	-71 to -83	Deep
19-SR	BKG	30°40'08.43"	88°02'33.98"	SWMUs 2, 4, 5, 6, 7 & 8	-11.9	9.20	11.22	-1.1 to -11.1	Upper
20-I	REC	30°40'05.67"	88°02'31.38"	SWMUs 2, 4, 5, 6, 7 & 8	53	11.66	11.11	-32.8 to -42.8	Intermediate
21-S	REC	30°40'01.54"	88°02'34.35"	SWMUs 2, 4, 5, 6, 7 & 8	20	7.83	10.93	1.5 to -8.5	Upper

TABLE III.1
(cont.)

WELL NUMBER	WELL TYPE*	WELL LATITUDE	WELL LONGITUDE	UNITS MONITORED	WELL DEPTH (ft)	GROUND ELEVATION (ft. NAVD)	TOP-OF-CASING ELEVATION (ft. NAVD)	SCREENED INTERVAL (ft. MSL)	MONITORED ZONE**
21-1	EFF	30°40'01.49"	88°02'34.27"	SWMUs 2, 4, 5, 6, 7 & 8	50.5	7.59	9.99	-28.5 to -38.5	Intermediate
23-1	EFF	30°40'02.73"	88°02'21.40"	SWMUs 2, 4, 5, 6, 7 & 8	48.5	14.37	13.84	-26.3 to -36.3	Intermediate
23-D	EFF	30°40'02.65"	88°02'21.44"	SWMUs 2, 4, 5, 6, 7 & 8	101	14.54	13.90	-78.9 to -88.9	Deep
25-1	EFF	30°40'06.39"	88°02'13.05"	SWMUs 2, 4, 5, 6, 7 & 8	53	13.54	12.85	-31.7 to -41.7	Intermediate
26-1	EFF	30°40'08.45"	88°02'10.27"	SWMUs 2, 4, 5, 6, 7 & 8	53	15.17	14.68	-31.9 to -41.9	Intermediate
31-IR	BDY/ POC	30°39'53.90"	88°02'33.88"	SWMUs 2, 4, 5, 6, 7 & 8	-40.9	10.10	12.89	-30.9 to -40.6	Intermediate
31-DR	BDY/ POC	30°39'53.84"	88°02'33.89"	SWMUs 2, 4, 5, 6, 7 & 8	-96.1	10.30	12.74	-85.8 to -95.8	Deep
32-S	BDY/ POC	30°39'55.04"	88°02'26.48"	SWMUs 2, 4, 5, 6, 7 & 8	20	10.60	10.42	0.78 to -9.22	Upper
32-1	BDY/ POC	30°39'55.13"	88°02'26.61"	SWMUs 2, 4, 5, 6, 7 & 8	48	10.60	10.26	-27.11 to -37.11	Intermediate
RW-1	REC	30°40'01.39"	88°02'34.41"	SWMUs 2, 4, 5, 6, 7 & 8	20	8.35	10.19	0.93 to -9.07	Upper
RW-3	REC	30°40'09.51"	88°02'17.66"	SWMUs 2, 4, 5, 6, 7 & 8	101	14.28	8.63	-77.87 to -87.87	Deep
RW-4	REC	30°40'09.48"	88°02'17.07"	SWMUs 2, 4, 5, 6, 7 & 8	102.5	14.90	8.92	-80.56 to -90.56	Deep
RW-5	REC	30°40'08.39"	88°02'17.72"	SWMUs 2, 4, 5, 6, 7 & 8	99.5	14.04	8.41	-77.61 to -87.61	Deep
RW-6	REC	30°40'09.08"N	88°02'16.22"W	SWMUs 2, 4, 5, 6, 7 & 8	-90.0	15.63	9.30	-78 to -88	Deep

TABLE III.1
(cont.)

WELL NUMBER	WELL TYPE*	WELL LATITUDE	WELL LONGITUDE	UNITS MONITORED	WELL DEPTH (ft)	GROUND ELEVATION (ft. MSL)	TOP-OF-RISER ELEVATION (ft. MSL)	SCREENED INTERVAL (ft. MSL)	MONITORED ZONE**
RW-7	REC	30°40'08.82"N	88°02'16.88"W	SWMUs 2, 4, 5, 6, 7 & 8	-92.6	14.89	8.72	-81 to -91	Deep
RW-8	REC	30°40'08.22"N	88°02'16.56"W	SWMUs 2, 4, 5, 6, 7 & 11	-91.6	15.15	8.72	-80 to -90	Deep
PZ-1-S	PGM	30°40'12.54"N	88°02'34.61"W	SWMUs 2, 4, 5, 6, 7 & 8	-6.1	10.71	13.29	-0.6 to -5.6	Upper
PZ-1-D	PGM	30°40'12.57"N	88°02'34.57"W	SWMUs 2, 4, 5, 6, 7 & 8	-88.2	10.80	13.63	-82.7 to -87.7	Deep
PZ-13-D	PGM	30°40'12.81"N	88°02'16.64"W	SWMUs 2, 4, 5, 6, 7 & 8	-79.0	14.70	17.27	-73.5 to -78.5	Deep
PZ-16-S	PGM	30°39'55.53"N	88°02'18.47"W	SWMUs 2, 4, 5, 6, 7 & 8	-10.3	7.70	TBD†	-4.8 to -9.8	Upper
PZ-19-I	PGM	30°40'08.37"N	88°02'34.27"W	SWMUs 2, 4, 5, 6, 7 & 8	-34.0	10.20	13.34	-28.5 to -33.5	Intermediate
PZ-30-D	PGM	30°40'00.83"N	88°02'35.65"W	SWMUs 2, 4, 5, 6, 7 & 8	-82.8	9.10	11.64	-77.3 to -82.3	Deep

* Well Type:
 POC - Point of Compliance Wells
 EFF - Effectiveness Monitoring Wells
 PGM - Piezometers and/or General Monitoring Wells
 BKG - Background Wells
 BDY - Boundary Monitoring Wells
 REC - Recovery Well

Notes:
 †-ASPA will submit to ADEM top of casing elevations after construction is complete.
 (ft)-feet
 S-Shallow groundwater monitoring well
 I-Intermediate groundwater monitoring well
 D-Deep groundwater monitoring well
 R-Replacement groundwater monitoring well
 (1)-Active well survey based on 2012 NAVD data.

TABLE III.2

GROUNDWATER QUALITY MONITORING CONSTITUENTS¹

HAZARDOUS CONSTITUENT	UNIT ²
Acenaphthene	SWMUs 2, 4, 5, 6, 7 & 8
Acenaphthylene	SWMUs 2, 4, 5, 6, 7 & 8
Anthracene	SWMUs 2, 4, 5, 6, 7 & 8
Arsenic	SWMUs 2, 4, 5, 6, 7 & 8
Benzo(a)anthracene	SWMUs 2, 4, 5, 6, 7 & 8
Benzene	SWMUs 2, 4, 5, 6, 7 & 8
Benzo(a)pyrene	SWMUs 2, 4, 5, 6, 7 & 8
Benzo(b)fluoranthene	SWMUs 2, 4, 5, 6, 7 & 8
Benzo(g,h,i)perylene	SWMUs 2, 4, 5, 6, 7 & 8
Benzo(k)fluoranthene	SWMUs 2, 4, 5, 6, 7 & 8
Bis(2-ethylhexyl)phthalate	SWMUs 2, 4, 5, 6, 7 & 8
Chrysene	SWMUs 2, 4, 5, 6, 7 & 8
Copper	SWMUs 2, 4, 5, 6, 7 & 8
Dibenzofuran	SWMUs 2, 4, 5, 6, 7 & 8
Dimethylphenol 2, 4-	SWMUs 2, 4, 5, 6, 7 & 8
Di-n-octyl phthalate	SWMUs 2, 4, 5, 6, 7 & 8
Fluoranthene	SWMUs 2, 4, 5, 6, 7 & 8
Fluorene	SWMUs 2, 4, 5, 6, 7 & 8
Hexachloroethane	SWMUs 2, 4, 5, 6, 7 & 8
Indeno(1,2,3-cd)pyrene	SWMUs 2, 4, 5, 6, 7 & 8
Methylaniline hydrochloride, 2- (o-toluidine)	SWMUs 2, 4, 5, 6, 7 & 8
Methylnaphthalene, 1-	SWMUs 2, 4, 5, 6, 7 & 8
Methylnaphthalene, 2-	SWMUs 2, 4, 5, 6, 7 & 8
Methylphenol, 4- (p-cresol)	SWMUs 2, 4, 5, 6, 7 & 8
Naphthalene	SWMUs 2, 4, 5, 6, 7 & 8
1-Naphthylamine	SWMUs 2, 4, 5, 6, 7 & 8
2-Naphthylamine	SWMUs 2, 4, 5, 6, 7 & 8
N-Nitrosodiphenylamine	SWMUs 2, 4, 5, 6, 7 & 8

TABLE III.2
(cont.)

HAZARDOUS CONSTITUENT	UNIT ²
Pentachlorophenol	SWMUs 2, 4, 5, 6, 7 & 8
Phenanthrene	SWMUs 2, 4, 5, 6, 7 & 8
Phenol	SWMUs 2, 4, 5, 6, 7 & 8
Phenolics, total	SWMUs 2, 4, 5, 6, 7 & 8
Pyrene	SWMUs 2, 4, 5, 6, 7 & 8
Xylene, total	SWMUs 2, 4, 5, 6, 7 & 8

1 The constituents listed herein are the subset of the Groundwater Protection Standard listed in Table III.3 for which routine monitoring is required.

2 Identifies the unit(s) at which the given constituent must be monitored.

TABLE III.3

GROUNDWATER PROTECTION STANDARD

HAZARDOUS CONSTITUENT	UNIT*	CONCENTRATION LIMIT (mg/L)**
Acenaphthene	SWMUs 2, 4, 5, 6, 7 & 8	17.9
Acenaphthylene	SWMUs 2, 4, 5, 6, 7 & 8	0.25
Acetone	SWMUs 2, 4, 5, 6, 7 & 8	1.4
Anthracene	SWMUs 2, 4, 5, 6, 7 & 8	3.6
Arsenic	SWMUs 2, 4, 5, 6, 7 & 8	0.39
Barium	SWMUs 2, 4, 5, 6, 7 & 8	2.0
Benzo(a)anthracene	SWMUs 2, 4, 5, 6, 7 & 8	8.96
Benzene	SWMUs 2, 4, 5, 6, 7 & 8	0.17
Benzo(a)pyrene	SWMUs 2, 4, 5, 6, 7 & 8	6.65
Benzo(b)fluoranthene	SWMUs 2, 4, 5, 6, 7 & 8	11.3
Benzo(g,h,i)perylene	SWMUs 2, 4, 5, 6, 7 & 8	3.43
Benzo(k)fluoranthene	SWMUs 2, 4, 5, 6, 7 & 8	1.4
Bis(2-ethylhexyl)phthalate	SWMUs 2, 4, 5, 6, 7 & 8	0.29
Bromodichloromethane	SWMUs 2, 4, 5, 6, 7 & 8	0.08
Carbon Disulfide	SWMUs 2, 4, 5, 6, 7 & 8	0.081
Chlorobenzene	SWMUs 2, 4, 5, 6, 7 & 8	0.1
Chloroform	SWMUs 2, 4, 5, 6, 7 & 8	0.08
Chromium	SWMUs 2, 4, 5, 6, 7 & 8	0.1
Chrysene	SWMUs 2, 4, 5, 6, 7 & 8	8.66
Cobalt	SWMUs 2, 4, 5, 6, 7 & 8	0.0006
Copper	SWMUs 2, 4, 5, 6, 7 & 8	63.25
Dibenzofuran	SWMUs 2, 4, 5, 6, 7 & 8	11.2
1,1-Dichloroethane	SWMUs 2, 4, 5, 6, 7 & 8	0.0028
1,1-Dichloroethene	SWMUs 2, 4, 5, 6, 7 & 8	0.007
1,2-Dichloroethene (cis)	SWMUs 2, 4, 5, 6, 7 & 8	0.07
1,2-Dichloropropane	SWMUs 2, 4, 5, 6, 7 & 8	0.005
2,4-Dimethylphenol	SWMUs 2, 4, 5, 6, 7 & 8	13.0
Di-n-octylphthalate	SWMUs 2, 4, 5, 6, 7 & 8	1.2
1,2-Dichloroethene (trans)	SWMUs 2, 4, 5, 6, 7 & 8	0.10

TABLE III.3
(cont.)

HAZARDOUS CONSTITUENT	UNIT*	CONCENTRATION LIMIT (mg/L)**
1,4-Dioxane	SWMUs 2, 4, 5, 6, 7 & 8	275.33
Ethylbenzene	SWMUs 2, 4, 5, 6, 7 & 8	0.7
Fluoranthene	SWMUs 2, 4, 5, 6, 7 & 8	29.3
Fluorene	SWMUs 2, 4, 5, 6, 7 & 8	14.4
Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)	SWMUs 2, 4, 5, 6, 7 & 8	3.0E-06
HpCDD, total	SWMUs 2, 4, 5, 6, 7 & 8	3.0E-06
Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)	SWMUs 2, 4, 5, 6, 7 & 8	3.0E-06
HpCDF, total	SWMUs 2, 4, 5, 6, 7 & 8	3.0E-06
Hexachlorodibenzofuran (HxCDF), total	SWMUs 2, 4, 5, 6, 7 & 8	3.0E-07
Hexachlorodibenzo-p-dioxon (HxCDD), total	SWMUs 2, 4, 5, 6, 7 & 8	3.0E-07
Hexachloroethane	SWMUs 2, 4, 5, 6, 7 & 8	2590
Indeno(1,2,3-cd)pyrene	SWMUs 2, 4, 5, 6, 7 & 8	2.79
Lead	SWMUs 2, 4, 5, 6, 7 & 8	0.015
Mercury	SWMUs 2, 4, 5, 6, 7 & 8	0.002
2-Methylaniline hydrochloride	SWMUs 2, 4, 5, 6, 7 & 8	0.29
1-Methylnaphthalene	SWMUs 2, 4, 5, 6, 7 & 8	0.78
2-Methylnaphthalene	SWMUs 2, 4, 5, 6, 7 & 8	18.2
3-Methylphenol (m-cresol)	SWMUs 2, 4, 5, 6, 7 & 8	0.093
4-Methylphenol (p-cresol)	SWMUs 2, 4, 5, 6, 7 & 8	3.4
Naphthalene	SWMUs 2, 4, 5, 6, 7 & 8	3.63
1-Naphthylamine	SWMUs 2, 4, 5, 6, 7 & 8	551
2-Naphthylamine	SWMUs 2, 4, 5, 6, 7 & 8	551
Nickel	SWMUs 2, 4, 5, 6, 7 & 8	0.039
N-Nitrosodiphenylamine	SWMUs 2, 4, 5, 6, 7 & 8	4.44
Octachlorodibenzo-p-dioxin (OCDD), total	SWMUs 2, 4, 5, 6, 7 & 8	1.0E-04
Octachlorodibenzofuran (OCDF), total	SWMUs 2, 4, 5, 6, 7 & 8	1.0E-04
Pentachlorophenol	SWMUs 2, 4, 5, 6, 7 & 8	1.04
Phenanthrene	SWMUs 2, 4, 5, 6, 7 & 8	54.3
Phenol	SWMUs 2, 4, 5, 6, 7 & 8	16,000

TABLE III.3
(cont.)

HAZARDOUS CONSTITUENT	UNIT*	CONCENTRATION LIMIT (mg/L)**
Phenolics, total	SWMUs 2, 4, 5, 6, 7 & 8	55,000
Pyrene	SWMUs 2, 4, 5, 6, 7 & 8	38.1
Selenium	SWMUs 2, 4, 5, 6, 7 & 8	0.05
Sulfide	SWMUs 2, 4, 5, 6, 7 & 8	250
Tetrachlorodibenzo-p-dioxin (TCDD), total	SWMUs 2, 4, 5, 6, 7 & 8	3.0E-08
Thallium	SWMUs 2, 4, 5, 6, 7 & 8	0.002
Toluene	SWMUs 2, 4, 5, 6, 7 & 8	1.00
2,4,5-TP (Silvex)	SWMUs 2, 4, 5, 6, 7 & 8	0.05
Trichloroethylene	SWMUs 2, 4, 5, 6, 7 & 8	0.005
Vanadium	SWMUs 2, 4, 5, 6, 7 & 8	825.99
Vinyl Chloride	SWMUs 2, 4, 5, 6, 7 & 8	0.549
Xylenes, total	SWMUs 2, 4, 5, 6, 7 & 8	0.26
Zinc	SWMUs 2, 4, 5, 6, 7 & 8	0.6

* Identifies the unit(s) at which the given constituent must be monitored.

** Alternate Concentrations Limits developed in the Corrective Measures Study (2001) and Permit Application (2014)

PART IV

**SOLID WASTE MANAGEMENT UNIT
IDENTIFICATION AND EVALUATION**

IV.A. APPLICABILITY

The Conditions of this Part apply to:

1. The solid waste management units (SWMUs) and areas of concern (AOCs) identified in Table IV.1, which require investigation and/or remediation;
2. The SWMUs identified in Table IV.2, which require no further action under this permit at this time;
3. Any additional SWMUs or AOCs discovered during the course of groundwater monitoring, field investigations, environmental audits, or other means; and,
4. Contamination beyond the facility boundary, if applicable. The Permittee shall implement corrective actions beyond the facility boundary where necessary to protect human health and the environment, unless the Permittee demonstrates to the satisfaction of the Department that, despite the Permittee's best efforts, as determined by the Department, the Permittee was unable to obtain the necessary permission to undertake such actions. The Permittee is not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis. Assurances of financial responsibility for completion of such off-site corrective action will be required.

**IV.B. NOTIFICATION AND ASSESSMENT REQUIREMENTS FOR NEWLY IDENTIFIED
SWMUs AND AOCs**

1. The Permittee shall notify the Department in writing, within 15 calendar days of discovery, of any additional AOC(s) as described under Permit Condition IV.A.3. The notification shall include, at a minimum, the location of the AOC(s) and all available information pertaining to the nature of the release (*e.g.*, media affected, hazardous constituents released, magnitude of release, *etc.*). If the Department determines that further investigation of an AOC is required, the permit will be modified in accordance with ADEM Admin. Code r. 335-14-8-.04(2).
2. The Permittee shall notify the Department in writing, within 15 calendar days of discovery, of any additional SWMUs as described under Permit Condition IV.A.3.
3. The Permittee shall prepare and submit to the Department, within 90 calendar days of notification, a SWMU Assessment Report (SAR) for each SWMU identified under Permit Condition IV.B.2. At a minimum, the SAR shall provide the following information:

- a. Location of unit(s) on a topographic map of appropriate scale such as required under ADEM Admin. Code r. 335-14-8-.02(5)(b)19.
 - b. Designation of type and function of unit(s).
 - c. General dimensions, capacities and structural description of unit(s) (supply any available plans/drawings).
 - d. Dates that the unit(s) was operated.
 - e. Specification of all wastes that have been managed at/in the unit(s) to the extent available. Include any available data on hazardous constituents in the wastes.
 - f. All available information pertaining to any release of hazardous waste or hazardous constituents from such unit(s) (to include groundwater data, soil analyses, air, and/or surface water data).
4. Based upon the results of the SAR, the Department shall determine the need for further investigations at the SWMUs covered in the SAR. If the Department determines that such investigations are needed, the Permittee shall initiate an investigation as outlined in Permit Condition IV.D.1 immediately upon receiving notification of the Department's determination.

IV.C. NOTIFICATION REQUIREMENTS FOR NEWLY DISCOVERED RELEASES AT PREVIOUSLY IDENTIFIED SWMUs or AOCs

1. The Permittee shall notify the Department in writing of any newly discovered release(s) of hazardous waste or hazardous constituents discovered during the course of groundwater monitoring, field investigations, environmental audits, or other means, within 15 calendar days of discovery. Such newly discovered releases may be from SWMUs or AOCs identified in Permit Condition IV.A.2 or SWMUs or AOCs identified in Permit Condition IV.A.3 for which further investigation was not required.
2. If the Department determines that further investigation of the SWMUs or AOCs is needed, the Permittee shall initiate an investigation as outlined in Permit Condition IV.D.1 immediately upon receiving notification of the Department's determination.

IV.D. RCRA FACILITY INVESTIGATION (RFI)

1. The Permittee must perform an RFI for any SWMU and AOC identified by the Department in accordance with Permit Conditions IV.A.1, IV.B.4, and IV.C.2.
2. The RFI must completely identify the concentration of hazardous constituents released from each SWMU and AOC and fully delineate the area where such hazardous constituents have come to be located.
3. The RFI must fully characterize the nature and extent of contamination released from each SWMU or AOC under investigation.

4. The RFI must be performed in a manner consistent with the most recent edition of the Alabama Environmental Investigation and Remediation Guidance (AEIRG).
5. Except as provided by Permit Condition IV.D.6., the RFI must be completed within 180 calendar days from the effective date of this permit or, for SWMUs or AOCs identified pursuant to Permit Condition IV.B. and C., within 180 calendar days from the receipt of notification from the Department that an RFI is required. If, prior to the effective date of this permit, the Department has approved a work plan that includes a schedule for completing the RFI, the RFI shall be completed in accordance with the approved schedule.
6. RFI Schedule of Compliance
 - a. For RFIs expected to require greater than 180 calendar days to complete, the Permittee may submit a schedule of compliance subject to Departmental approval and/or modification.
 - b. Submittal of an RFI Schedule of Compliance does not delay or otherwise postpone the Permittee's obligation to initiate the RFI.
 - c. The Schedule of Compliance must include:
 - i. A detailed narrative discussion, which explains why the RFI cannot be completed within 180 days; and,
 - ii. A detailed and chronological listing of milestones with estimated durations that provides sufficient information to track the progress of the investigation.
 - d. The RFI Schedule of Compliance shall be reviewed by the Department in accordance with Permit Condition IV.G.
 - e. The Permittee shall complete the RFI in accordance with the approved RFI Schedule of Compliance.
7. RFI Progress Reports
 - a. For an RFI being conducted in accordance with the approved RFI Schedule of Compliance, the Permittee must submit progress reports on a monthly basis.
 - b. The RFI Progress Reports must include:
 - i. A description of the RFI activities completed during the reporting period;
 - ii. Summaries of any problems or potential problems encountered during the reporting period;
 - iii. Actions taken to rectify problems;
 - iv. Changes in relevant personnel;

- v. Projected work for the next reporting period;
- vi. Any proposed revisions to the RFI Schedule of Compliance. Modifications of the RFI Schedule of Compliance are subject to approval by the Department; and,
- vii. A summary of any data collected during the reporting period, including:
 - A. The location of each sampling point identified on a site map;
 - B. The concentration of each hazardous constituent detected at each sampling point; and,
 - C. Submittal of RFI Progress Reports, work plans, or other documents during the RFI does not alter the approved RFI Schedule of Compliance.

8. RFI Reports

- a. The Permittee shall prepare and submit to the Department an RFI Report within 60 calendar days from the completion of investigation activities in accordance with the approved RFI Schedule of Compliance, if applicable.
- b. The RFI Report must provide a detailed description of all required elements of the investigation as described in the most recent edition of the AEIRG.
- c. The RFI Report shall be reviewed by the Department in accordance with Permit Condition IV.G.

IV.E. SELECTION OF CORRECTIVE MEASURES AND PERMIT MODIFICATION

- 1. The Permittee shall develop and submit to the Department a Corrective Measures Implementation (CMI) Plan for any areas of the Permittee's site where hazardous constituents have come to be located at concentrations exceeding those appropriate for the protection of human health and the environment. The CMI Plan must include all applicable elements of the proposed remedy pursuant to the most recent edition of the AEIRG.
- 2. The CMI Plan shall be submitted to the Department within 120 calendar days following the Permittee's submittal of the RFI Report indicating that hazardous constituents have come to be located at any area of the Permittee's facility, or beyond the facility, at concentrations exceeding those appropriate for the protection of human health and the environment, or within 120 calendar days following notification from the Department that a CMI Plan is required, whichever occurs earlier.
- 3. The CMI Plan shall be submitted along with a request for permit modification pursuant to ADEM Admin. Code r. 335-14-8-.04(2), and shall include any applicable fees pursuant to ADEM Admin. Code r. 335-1-6. This modification will serve to incorporate the proposed final remedy, including all procedures necessary to implement and monitor the remedy, into this permit.

IV.F. INTERIM MEASURES (IM)

1. IM Work Plan(s)
 - a. Upon notification by the Department, the Permittee shall prepare and submit an Interim Measures (IM) Work Plan for any SWMU or AOC that the Department determines is necessary. IM are necessary in order to minimize or prevent further migration of contaminants and limit human and environmental exposure to contaminants while long-term corrective measures are evaluated and, if necessary, implemented. The IM Work Plan shall be submitted within 30 calendar days of such notification and shall include the elements listed in Permit Condition IV.F.1.b. Such IM may be conducted concurrently with investigations required under the terms of this permit. The Permittee may initiate IM by submitting an IM Work Plan for approval and reporting in accordance with the requirements under Permit Condition IV.F.
 - b. The IM Work Plan shall ensure that the IM are designed to mitigate any current or potential threat(s) to human health or the environment and is consistent with and integrated into any long-term solution at the facility. The IM Work Plan shall include: the IM objectives, procedures for implementation (including any designs, plans, or specifications), and schedules for implementation.
 - c. The IM Work Plan must be approved by the Department, in writing, prior to implementation. The Department shall specify the start date of the IM Work Plan schedule in the letter approving the IM Work Plan.
 - d. The IM Report shall be reviewed by the Department in accordance with Permit Condition IV.G.
2. IM Implementation
 - a. The Permittee shall implement the IM in accordance with the approved IM Work Plan.
 - b. The Permittee shall give notice to the Department as soon as possible of any planned changes, reductions or additions to the IM Work Plan.
 - c. Final approval of corrective action required under ADEM Admin. Code r. 335-14-5-.06(12), which is achieved through IM, shall be in accordance with ADEM Admin. Code r. 335-14-8-.04(2) and Permit Condition IV.E.
3. IM Reports
 - a. If the time required for completion of IM is greater than one year, the Permittee shall provide the Department with Progress Reports at intervals specified in the approved work plan. The Progress Reports shall, at a minimum, contain the following information:

- i. A description of the portion of the IM completed;
 - ii. Summaries of any deviations from the IM Work Plan during the reporting period;
 - iii. Summaries of any problems or potential problems encountered during the reporting period;
 - iv. Projected work for the next reporting period; and,
 - v. Copies of laboratory or monitoring data.
- b. The Permittee shall prepare and submit the IM Report to the Department within 90 calendar days of completion of IM conducted under Permit Condition IV.F. The IM Report shall, at a minimum, contain the following information:
- i. A description of IM implemented;
 - ii. Summaries of results;
 - iii. Summaries of all problems encountered;
 - iv. Summaries of accomplishments and/or effectiveness of IM; and,
 - v. Copies of all relevant laboratory or monitoring data, *etc.*, in accordance with Permit Condition I.C.10.

IV.G. SUBMITTALS

1. All work plans, reports, schedules, and other documents ("submittals") required by this permit shall be subject to approval by the Department to assure that such submittals and schedules are consistent with the requirements of this Permit and with applicable regulations and guidance. The Permittee shall revise all submittals and schedules as directed by the Department.
2. The Department will review all submittals in accordance with the conditions of this permit. The Department will notify the Permittee in writing of any submittal that is disapproved, and the basis therefore. If the Department disapproves a submittal, the Department shall: (1) notify the Permittee in writing of the submittal's deficiencies and specify a due date for submission of a revised submittal, (2) revise the submittal and notify the Permittee of the revisions, or (3) conditionally approve the submittal and notify the Permittee of the conditions. Permit Condition IV.H. shall apply only to submittals that have been disapproved and revised by the Department, or that have been disapproved by the Department, then revised and resubmitted by the Permittee, and again disapproved by the Department.
3. All submittals shall be submitted within the time frame specified by the Department and in accordance with the approved schedule of compliance. Extensions of the due date for

submittals may be granted by the Department based on the Permittee's demonstration that sufficient justification for the extension exists.

4. All submittals required by this permit shall be signed and certified in accordance with ADEM Admin. Code r. 335-14-8-.02(2).
5. Two (2) copies of all submittals shall be provided by the Permittee to the Department in accordance with Permit Condition I.J.

IV.H. DISPUTE RESOLUTION

Notwithstanding any other provision in this permit, in the event the Permittee disagrees, in whole or in part, with the Department's revision of a submittal or disapproval of any revised submittal required by this Part, the following may, at the Permittee's discretion, apply:

1. In the event that the Permittee chooses to invoke the provisions of this section, the Permittee shall notify the Department in writing within 30 calendar days of receipt of the Department's revision of a submittal or disapproval of a revised submittal. Such notice shall set forth:
 - a. The specific matters in dispute;
 - b. The position the Permittee asserts should be adopted as consistent with the requirements of this permit;
 - c. The basis for the Permittee's position; and,
 - d. Any matters considered necessary for the Department's determination.
2. The Department and the Permittee shall have an additional 30 calendar days from the Department's receipt of the notification provided for in Permit Condition IV.H.1. to meet or confer to resolve any disagreement.
3. In the event agreement is reached, the Permittee shall submit and implement the revised submittal in accordance with and within the time frame specified in such agreement.
4. If agreement is not reached within the 30-day period, the Department will notify the Permittee in writing of the decision on the dispute, and the Permittee shall comply with the terms and conditions of the Department's decision in the dispute. For the purposes of this provision in this permit, the responsibility for making this decision shall not be delegated below the Department's Land Division Chief.
5. With the exception of those conditions under dispute, the Permittee shall proceed to take any action required by those portions of the submission and of this permit that the Department determines are not affected by the dispute.

Table IV.1

The following Solid Waste Management Unit(s) (SWMU) and/or Area(s) of Concern (AOC) numbers and descriptions correspond with those noted in the RCRA Facility Assessment (RFA) Report. Where discrepancies exist, the permit will take precedence.

List of SWMUs and AOCs requiring a RCRA Facility Investigation (RFI) and/or remediation:

SWMU/AOC NUMBER	SWMU/AOC NAME	UNIT COMMENT	POTENTIALLY AFFECTED MEDIA
SWMU 11	Drumline-Redline	RFI activities to be completed	Soil and Groundwater

Table IV.2

The following Solid Waste Management Unit(s) (SWMU) and/or Area(s) of Concern (AOC) numbers and descriptions correspond with those noted in the RCRA Facility Assessment (RFA) Report. Where discrepancies exist, the permit will take precedence.

List of SWMUs and AOCs requiring no further action at this time:

SWMU/AOC NUMBER	SWMU/AOC NAME	UNIT COMMENT	POTENTIALLY AFFECTED MEDIA
AOC-1	Mobile Drum Storage	USEPA Region IV determined NFA, 1988 RFA	Soils
AOC-2	Abandoned Dumpsters	Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003	Soils
AOC-3	Abandoned Drum	Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003	Soils
AOC-4	Abandoned Drums off Marvin Street	Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003	Soils
AOC-5	Automobile Gas Tanks	Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003	Soils
AOC-6	Five-Gallon Cans, Capacitors, and Refrigerator	Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003	Soils & Groundwater
SWMU 1	Wastewater Pre-Treatment Plant	USEPA Region IV determined NFA, 1988 RFA	Soils
SWMU 3	Drum Storage Unit	USEPA Region IV determined NFA, 1988 RFA	Soils
SWMU 9	Abandoned Paint Containers	Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003	Soils
SWMU 10	Abandoned Drums in Woods	Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003	Soils & Groundwater

Table IV.3

The following Solid Waste Management Unit(s) (SWMU) and/or Area(s) of Concern (AOC) numbers and descriptions correspond with those noted in the RCRA Facility Assessment (RFA) Report. Where discrepancies exist, the permit will take precedence.

List of SWMUs and AOCs regulated by Parts II and III of this permit.

SWMU/AOC NUMBER*	SWMU/AOC NAME	UNIT COMMENT	POTENTIALLY AFFECTED MEDIA
SWMU 2	Surface Impoundment	Closure certification submitted in 1990; closed as a landfill	Soils & Groundwater
SWMU 7	Overflow Impoundment Area	Closure certification submitted in 1990; closed as a landfill	Soils & Groundwater

* SWMUs 2 and 7 were closed under a singled engineered cap.

PART V

CORRECTIVE MEASURES IMPLEMENTATION

V.A. APPLICABILITY

The conditions of this Part apply to SWMUs and AOCs identified in Table V.1.

V.B. GENERAL CONDITIONS

1. The Permittee is required to perform corrective measures for the SWMUs and AOCs identified in Condition V.A. The approved remedy for these defined units, waterway areas, or land parcels, includes any and all actions set forth in this permit and in the approved Interim Measures Plans, Corrective Measures Studies (CMSs), and Corrective Measures Implementation (CMI) Plans approved by the Department, as noted below:

Applicable SWMU/AOC	CMS/CMI	Approval Date
SWMUs 4, 5, 6, & 8	CMI Work Plan, dated December 18, 2002, amended February 13, 2003, April 14, 2011, August 13, 2014, December 15, 2015, March 9, 2018, May 3, 2018, June 8, 2018, and June 18, 2018	August 24, 2018
	Technical Plan Alabama Wood Treating Corporation SWMU 6 West Site Ezra Trice Bypass Rail Tracks Construction Project dated April 14, 2011	July 12, 2011

2. Remedial Cleanup Levels

Upon approval, pursuant to Section 1, of the CMI Plan designating applicable cleanup level(s), the cleanup level(s) for the areas specific to the CMI Plan will be deemed to be a condition of this permit.

3. Groundwater Monitoring and Remediation

Where required pursuant to Conditions V.B.1. and V.C. of this permit, the Permittee shall comply with the general groundwater monitoring requirements of Part III of this permit.

4. Land Use Controls

Where required pursuant to Conditions V.B.1. and V.C. of this permit, the Permittee shall establish appropriate land use controls to achieve protection of human health and the environment. The Permittee shall comply with Conditions V.B.5. and V.B.6. of this permit when implementing corrective

does not provide a written refusal of the request to allow an environmental covenant to be imposed, the Permittee shall notify the Department within 14 days of delivery of the request to the off-site property owner. In such cases, the Department may allow the Permittee to propose an alternate area-specific land use control in accordance with ADEM Admin. Code r. 335-5-1-.02(i), subject to the Department's review and approval.

5. Survey Plat

For corrective measures where residual concentrations of contaminants will remain in-place at levels greater than those appropriate for unrestricted land use, or for corrective measures that rely on land use controls, the Permittee must:

- a. Within 90 calendar days following the effective date of a permit modification addressing remedy selection, submit to the local zoning authority, or the authority with jurisdiction over local land use, and to the Department, a survey plat indicating the location and dimensions of the SWMUs, AOCs, and capped or partially remediated areas with respect to permanently surveyed benchmarks, the locations of sampling points, and the concentrations of hazardous constituents detected. This plat must be prepared and certified by a professional land surveyor registered in the State of Alabama. The plat must be filed with the local zoning authority or the authority with jurisdiction over local land use and must contain a note, prominently displayed, which states the Permittee's obligation to limit the property to the specified restricted uses.
- b. Maintain the survey plat as described in Condition V.B.5.a. of this permit and in the CMI Report until the Permittee has demonstrated, to the satisfaction of the Department, that the levels of hazardous constituents in all contaminated media are within limits appropriate for unrestricted land uses.

6. Environmental Covenant

No later than the submission of the survey plat required in Condition V.B.5., the Permittee must:

- a. Record in the probate judges office of the county in which the property is located or a portion thereof an environmental covenant in accordance with ADEM Admin. Code r. 335-5 that will in perpetuity notify any potential purchaser of the property that:
 - i. The land is contaminated with hazardous constituents in concentrations that exceed unrestricted use standards;
 - ii. The use of the property is restricted by this permit for certain residential, municipal, or industrial purposes and may lead to an increased risk of exposure to hazardous constituents depending upon the activities initiated at the site. Such

activities may yield an increased level of human health risk to the owner;

- iii. The potential purchaser or entity that desires to work in the contaminated area should notify the Permittee before mobilizing to the area covered by the land use control.
 - b. Submit to the Department a certification, signed by the Permittee in accordance with Permit Condition I.C.11., that the environmental covenant specified in this part has been performed. This certification must include a copy of the document in which the notation has been placed.
 - c. Maintain the environmental covenant described in Permit Condition V.B.6. until the Permittee has demonstrated, to the satisfaction of the Department, that the levels of hazardous constituents in all contaminated media are within limits appropriate for unrestricted land uses.
7. Security

Security measures, where required by Conditions V.B.1. and V.C. of this permit, will be conducted in accordance with ADEM Admin. Code r. 335-14-5-.02(5) and as prescribed in the approved CMI Plan and Technical Plan for the Ezra Bypass Rail Tracks Construction Project.

8. Inspection

Where corrective measures addressed in Conditions V.B.1. include provisions to cap in place or partially remediate properties or land areas, whether owned or not owned by the Permittee, the Permittee shall specify inspection protocols on a scheduled basis to ensure continued integrity of the remedy and to ensure that land use remains appropriately restricted per the environmental covenant established pursuant to Permit Condition V.B.6. Inspection provisions shall be as prescribed in the approved CMI Plan

V.C. AREA SPECIFIC CONDITIONS

1. Construction Activities in Contaminated Areas

- a. Construction activities, such as excavation, trenching, etc., shall not be conducted in SWMUs and AOCs identified in Table V.I., except as noted in the CMI Work Plan and as approved by the Department.
- b. Any corrective measures shall be developed and implemented in a manner so as to minimize potential human exposure to contaminated media both during construction and upon completion of construction.
- c. During construction of corrective measures, the Permittee shall prevent erosion and downstream transport of contaminated sediments. Erosion and

runoff controls, as well as preventive measures for sediment disturbing activities, shall be outlined in the approved CMI Work Plans and specifications.

- d. During construction of corrective measures, the Permittee shall prevent the generation of fugitive dust that may yield human exposure due to inhalation of contaminated particulates. Fugitive dust control measures, where warranted, shall be outlined in the approved CMI Work Plans and specifications.
- e. Due to the presence of hazardous constituents at levels that may exceed acceptable risk-based levels for unrestricted residential use, current and future uses of the subject property are restricted to non-residential uses. The Permittee shall comply with the requirements of Condition V.B.4.
- f. Inspection and maintenance activities will be conducted both during and upon completion of remediation in accordance with the CMI Work Plan, as amended and approved.
- g. In addition to the remedies outlined in the CMIP, SWMUs 2, 4, 5, 6 East, 7 and 8 have been covered with roller-compacted concrete. The finished pavement surface resulted in an elevation of approximately 12 to 14 feet NAVD. This paved area is used as a container terminal. Any intrusive activities at or below 12 feet NAVD is prohibited at SWMUs 4, 5, 6 East, and 8. SWMU 6 West has an asphalt cover. Intrusive activities at or below 9 feet NAVD is prohibited at SWMU 6 West.
- h. Any intrusive activities at or below the level of the brass markers located on SWMUs 2 and 7, the regulated units, is prohibited.

V.D. CORRECTIVE MEASURES IMPLEMENTATION (CMI) REPORTS

1. CMI Progress Reports

If the time required to complete implementation of a specific set of corrective measures, as described in the Department-approved CMI Plan, is greater than 180 calendar days, the Permittee shall provide ADEM with progress reports according to the schedule in the ADEM-approved CMI Plan. If no schedule has been approved as part of the associated plan, progress reports shall be submitted at least quarterly. The progress reports shall, at a minimum, contain the following information:

- a. A description of the portion of CMI Plan completed;
- b. Summaries of and deviations from the approved CMI Plan during the reporting period;
- c. Summaries of current and potential problems, including recommended solutions and alternatives as well as corrective actions undertaken;

- d. Any monitoring data (soil, air, dust, water) collected for any reason during the construction period for the purposes of monitoring potential for human and ecological exposure; and,
- e. Projected work for the next period and impacts to the approved schedule.

2. Final CMI Reports

Upon completion of construction of corrective measures systems, implementation of land use controls, interim removal actions, or other short-term activities required by this permit and/or the approved CMI Plan, the Permittee shall submit to the Department a Final CMI Report containing, at a minimum, the following:

- a. A description of activities completed;
- b. For cap and cover remedies, as-built construction drawings presenting the final in-place three-dimensional location of contaminated material. A plan view of the remediated areas shall be presented in addition to a cross section of the in-place capped areas;
- c. Hazardous waste manifests indicating the handling of any excavated material that has been shipped off-site to a Department-approved, certified landfill;
- d. For remedies involving land use controls, a copy of the survey plat and environmental covenant required by Condition V.B. of this permit;
- e. Monitoring data (soil, air, dust, water) collected for any reason during the construction period for the purposes of monitoring potential for human and ecological exposure; and
- f. Certification, prepared in accordance with ADEM Admin. Code r. 335-14-8-02 (2)(d) by the Permittee and an independent professional engineer registered in the State of Alabama, that the corrective measures implementation phase (*i.e.*, construction) required by this permit is complete and that the approved system and/or facilities are ready for operation in accordance with the intended design (*i.e.*, CMI Plan).

3. Corrective Measures (CM) Effectiveness Reports

- a. For corrective measures that have been fully implemented and where the corrective measures system must operate for a period of time to achieve cleanup goals or levels, the Permittee shall submit CM Effectiveness Reports annually, unless otherwise approved by the Department, beginning 180 calendar days following the Department's approval of the Final CMI Report for the initial Corrective Measures system subject to this permit condition. The overall CM Effectiveness Reports shall include, at a minimum, the following information for each SWMU and/or AOC included in the report:

- i. A detailed narrative presenting an evaluation of the effectiveness of the selected remedy;
 - ii. Summaries of compliance with and progress toward achieving cleanup goals;
 - iii. Any significant revisions, adjustments, or proposed modifications to the selected remedy;
 - iv. Tabulated environmental sampling and monitoring data including, but not limited to, groundwater quality, elevation data, and a graphical representation of all constituents detected during each sampling event from recovery wells, monitoring wells, drinking water wells, and other locations;
 - v. Chain of custody, field reports, and laboratory data sheets to include the date of collection, the date the sample was extracted, and the date of sample analysis for samples collected during the reporting period;
 - vi. Any monitoring data (soil, air, dust, water) collected for any reason during the post-construction period for the purposes of monitoring potential for human and ecological exposure;
 - vii. Isoconcentration maps depicting the distribution of parameters for each sampling event;
 - viii. Time versus concentration plots for each monitoring parameter for each recovery well and a representative number of effectiveness wells (following the removal of free product from each individual monitoring well);
 - ix. Tabulated volumetric data on groundwater pumped and pumping rates (monthly and cumulative) for each recovery well;
 - x. Records of any groundwater recovery system operation time, including shutdown periods, not including any minor (less than 24 hours) shutdowns for repairs, maintenance, etc.;
 - xi. Potentiometric surface maps;
 - xii. Description of land use during the reporting period at the designated area requiring corrective measures; and,
 - xiii. Findings of the Permittee's investigation into the continued effectiveness of land use controls per Condition V.B.
- b. If, at any time, the Permittee determines that any remedy selection specified in Condition V.B or V.C. of this permit no longer satisfies the applicable requirements of ADEM Admin. Code r. 335-14-5-.06(12) or

this permit for releases of hazardous waste or hazardous constituents originating from SWMUs or AOCs, the Permittee must, within 90 calendar days, submit an application for a permit modification, pursuant to Permit Condition I.I, to make any appropriate changes to the CMI Plan.

- c. The application for changes in the CMI Plan, including changes in inspection and monitoring provisions of the CMI Plan, shall be submitted as an application for a permit modification pursuant to the requirements of ADEM Admin. Code r. 335-14-8-.04.

4. Final Report of Corrective Measures

Within 90 calendar days following attainment of cleanup levels or goals as outlined in this Permit and the approved CMI Plan, the Permittee shall submit to the Department a Final Report of Corrective Measures (FRCM). The FRCM shall contain a certification by the Permittee and an Alabama-registered independent professional engineer that all remedial measures required by this permit and the approved CMI Plan have been completed. The FRCM shall outline any procedures and schedules for dismantling of corrective measures systems, groundwater monitoring or recovery systems, removal of land use controls, and any other remedial systems or controls required by this permit or the approved CMI Plan.

Table V.1.

The following Solid Waste Management Unit(s) (SWMUs) and/or Area(s) of Concern (AOC) numbers and descriptions correspond with those noted in the RCRA Facility Assessment (RFA) Report. Where discrepancies exist, the permit will take precedence.

List of SWMUs and AOCs requiring Corrective Measures.

SWMU/AOC Number	SWMU/AOC NAME	UNIT COMMENT	POTENTIALLY AFFECTED MEDIA
SWMU 4	Former Plant Operations and Storage Area	CMI Work Plan, dated December 18, 2002, amended February 13, 2003, as approved August 25, 2003	Soils & groundwater
SWMU 5	Wood Product Storage Area	CMI Work Plan, dated December 18, 2002, amended February 13, 2003, as approved August 25, 2003	Soils & Groundwater
SWMU 6	Drainage Ditch to Mobile Bay	CMI Work Plan, dated December 18, 2002, amended February 13, 2003, as approved August 25, 2003, amended April 14, 2011, August 13, 2014, December 15, 2015, March 9, 2018, May 3, 2018, June 8, 2018, and June 18, 2018 and Technical Plan Ezra Trice Bypass Rail Tracks Construction Project, dated April 2011	Soils, Groundwater & Surface Water
SWMU 8	Former Creosote Unloading Area	CMI Work Plan, dated December 18, 2002, amended February 13, 2003, as approved August 25, 2003	Soils & Groundwater

PART VI

SUMMARY OF DEADLINES

The summary information provided herein is intended only as a guide to the requirements of this permit. It is not intended to be all inclusive, nor is it intended to be used as a substitute for the full text of this permit.

PERMIT CONDITION	ITEM	DUE DATE
I.C.2.b.	Reapply for a renewal	180 calendar days before the expiration of the current permit.
I.C.12.	Give notice to the Department of any planned physical alterations or additions to the permitted facility and any solid waste management units.	As soon as possible
I.C.12.	Report any noncompliance with this permit that may endanger human health or the environment.	Orally within 24 hours from the time the Permittee becomes aware of the circumstances. Written submission shall also be provided within 5 calendar days of the time that the Permittee becomes aware of the circumstances
I.F.	Waste Minimization Certification	Annually
I.G.	Update cost estimates	No later than 30 calendar days after the Department has approved a modification to the Closure Plan, Post-Closure Plan, or Corrective Action Plan, or any other plan required or referenced by this permit, if the change in the plan results in an increase in the amount of the cost estimate and annually as required by ADEM Admin. Code r. 335-14-5-.08(3)(b), (5)(b), and (10)(b)
I.I.	Submit a written request for a permit modification pursuant to the requirements of ADEM Admin. Code r. 335-14-8-.04(2).	At least 60 calendar days prior to a proposed change in facility design or operation.
II.C.2	Inspect closed unit(s).	At least annually, after storms, and in accordance with the inspection schedule.
III.B.1.a.iii.	Notification of damaged groundwater monitoring wells.	Immediately in writing. The well must be repaired within 30 calendar days of damage, and repair report must be submitted within 30 calendar days of repair.
III .B.1.d.	Install additional groundwater monitoring wells	As necessary to assess changes in the rate and extent of any plume of contamination, or as otherwise deemed necessary. Note: a permit modification request must be submitted within 90 calendar days prior to installation of additional groundwater monitoring well(s).


PERMIT CONDITION	ITEM	DUE DATE
III.B.2.a.	Determine groundwater surface elevation.	At least annually and each time a well is sampled.
III .B.2.b.	Determine groundwater flow rate and direction.	At least annually.
III.B.6.b.	Submit groundwater monitoring report	Within 60 calendar days of the first sampling event and annually thereafter.
III.B.6.c.	Submit progress reports.	Within 90 calendar days after the effective date of this permit and quarterly thereafter. See permit condition for start/stop/resume provisions.
III.D.1.a.	Sample all point of compliance wells and background wells and analyze for the constituents listed in Table.3. of this permit.	Annually beginning within 120 calendar days of the effective date of this permit.
III.D.1.b.	Sample and analyze for temperature (degrees F or C), specific conductance (Mhos/cm), and pH (standard units), at all background and point of compliance monitoring well locations.	Each time the well is sampled.
III .D.1.c.	Sample point of compliance and background wells and analyze, in accordance with Permit Condition III.B.5., for the constituents listed in ADEM Admin. Code r. 335-14-5-Appendix IX	At the beginning of the compliance period and annually thereafter throughout the compliance period. See Table 9 of the Permit Application for the specific sampling schedule for each groundwater well.
IV .B.1.	Notify the Department, in writing, of the discovery of any additional AOCs	Within 15 calendar days of discovery
IV .B.2.	Notify the Department, in writing, of the discovery of any additional SWMUs	Within 15 calendar days of discovery
IV .B.3.	Submit a SWMU Assessment Report (SAR) for each SWMU identified under IV. B.2.	Within 90 calendar days of notification.
IV .C.1.	Notify the Department, in writing, of any newly discovered release(s) of hazardous waste or hazardous constituents from SWMUs or AOCs discovered during the course of groundwater monitoring, field investigations, environmental audits, or other means.	Within 15 calendar days of discovery
IV.D.7.	Submit RFI Progress Reports.	Monthly beginning in the second month following the initiation of the RFI
IV .D.8.	Submit RFI Report	Within 60 calendar days from the completion of investigation activities.

PERMIT CONDITION	ITEM	DUE DATE
IV .E.2.	Submit CMI Plan	Within 120 calendar days following the Permittee's submittal of the RFI Report indicating that hazardous constituents have come to be located at any area of the Permittee's facility, or beyond the facility, at concentrations exceeding those appropriate for the protection of human health and the environment, or within 120 calendar days following notification from the Department that a CMI Plan is required, whichever occurs earlier.
IV .F.1.	Submit IM Work Plan	Within 30 calendar days upon notification by the Department.
IV.F.3.	Submit IM Report	Within 90 calendar days of completion of IM.
V.B.5.a.	Submit to the local zoning authority, or the authority with jurisdiction over local land use, and to the Department, a survey plat indicating the location and dimensions of the SWMUs, AOCs, and capped or partially remediated areas with respect to permanently surveyed benchmarks, the locations of sampling points, and the concentrations of hazardous constituents detected	Within 90 calendar days following the effective date of a permit modification addressing remedy selection.
V.B.6.a.	Record environmental covenant	No later than the submission of the survey plat required in Condition V.B.5.
V.B.6.b.	Submit to the Department a certification that the environmental covenant has been performed.	No later than the submission of the plat required in Condition V.B.5.
V.D.3.	Submit Corrective Measures Effectiveness Reports	Annually beginning 180 calendar days following the Department's approval of the Final CMI Report. As stated in the permit application, following the approval of the CMIR, the annual CMER and groundwater report will be combined and submitted on or before March 1.
V.D.4.	Submit a Final Report of Corrective Measures (FRCM)	Within 90 calendar days following attainment of cleanup levels or goals

CERTIFICATION STATEMENT

335-14-8-.02(2)(d)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature  Date 6/26/19

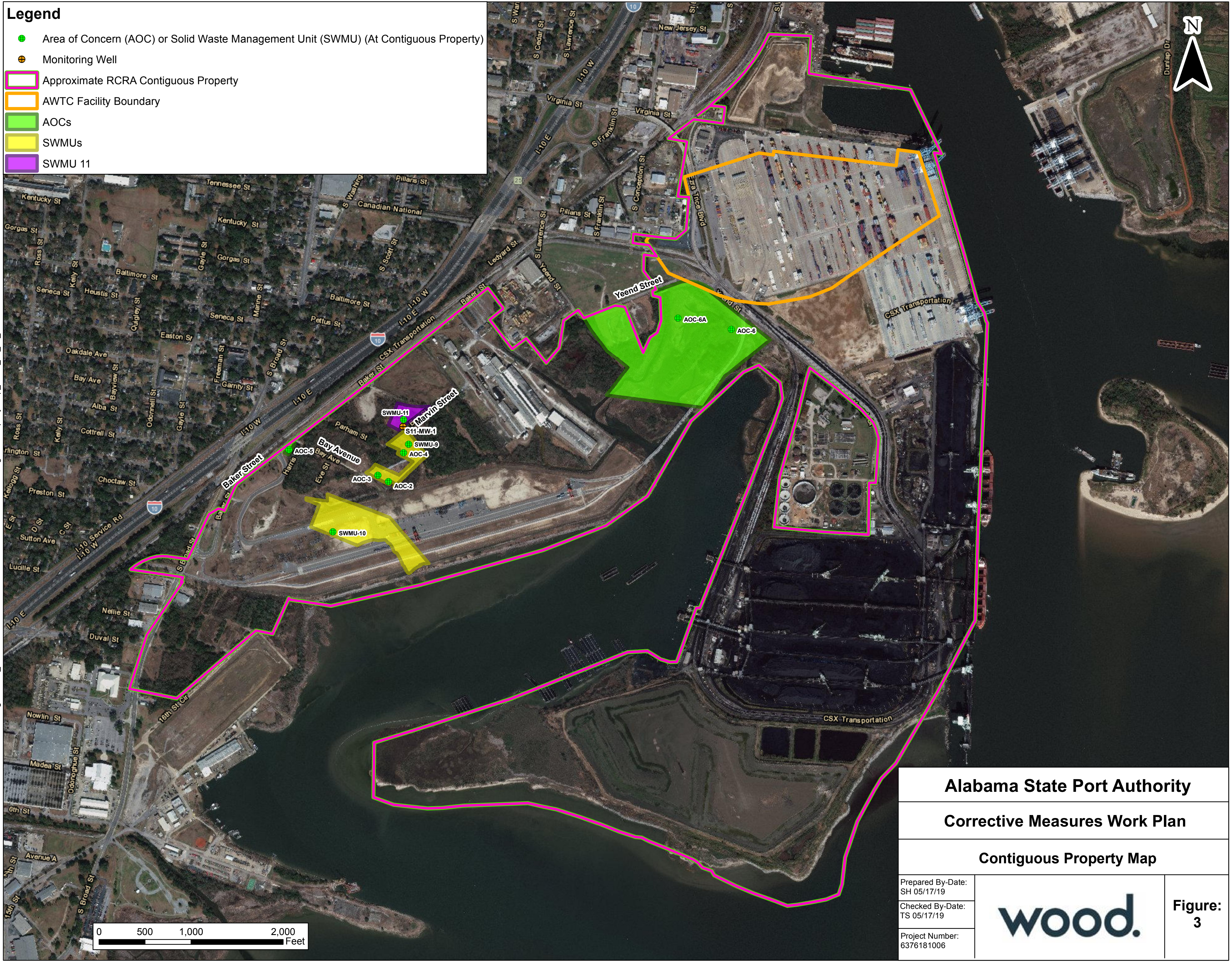
Name Robert C. Harris, Jr., PE

Title VP Technical Services, Alabama State Port Authority

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Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU) (At Contiguous Property)
- Monitoring Well
- Approximate RCRA Contiguous Property
- AWTC Facility Boundary
- AOCs
- SWMUs
- SWMU 11



Alabama State Port Authority		
Corrective Measures Work Plan		
Contiguous Property Map		
Prepared By-Date: SH 05/17/19		Figure: 3
Checked By-Date: TS 05/17/19		
Project Number: 6376181006		

CERTIFICATION STATEMENT

335-14-8-.02(2)(d)

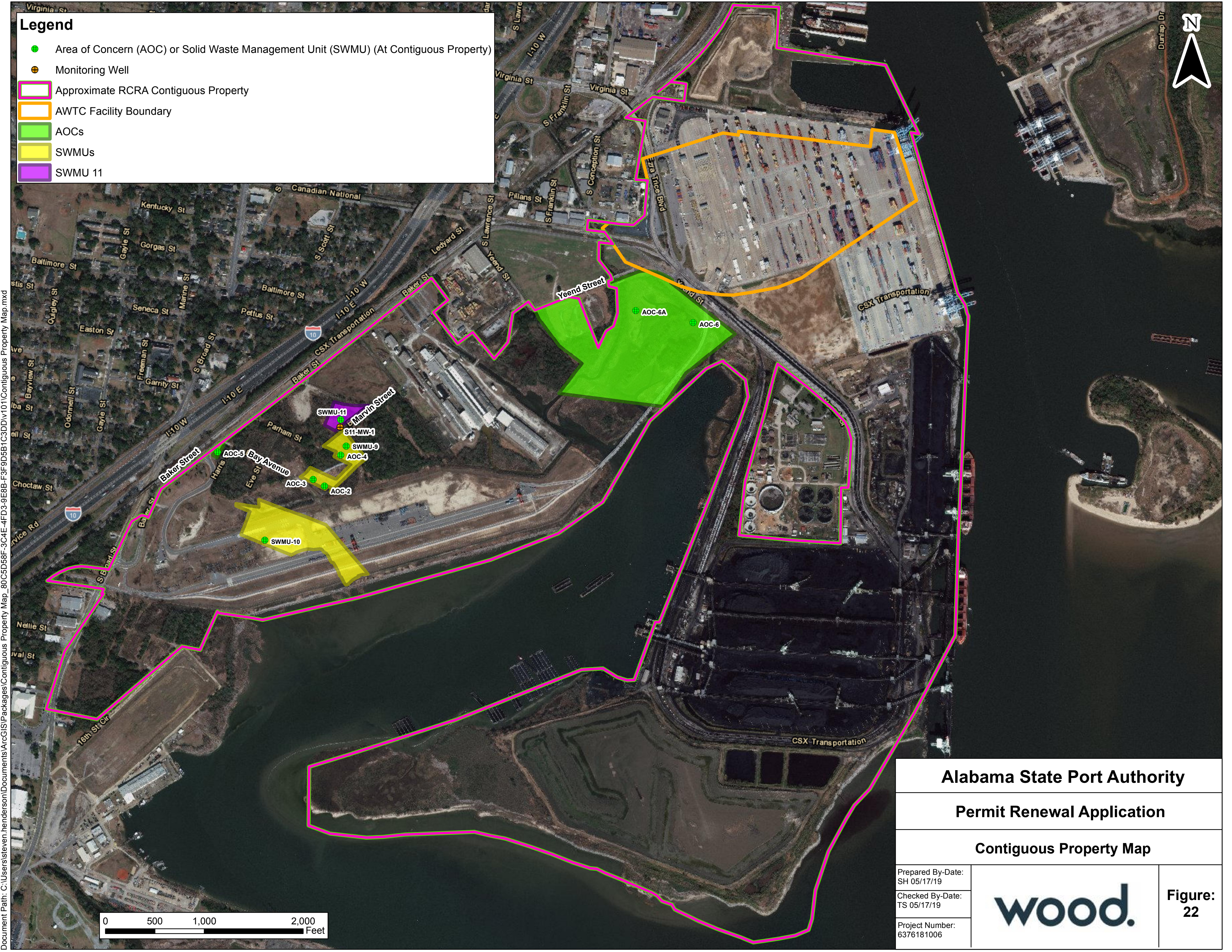
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature 

Date 6/26/19

Name Robert C. Harris, Jr., PE

Title VP Technical Services, Alabama State Port Authority



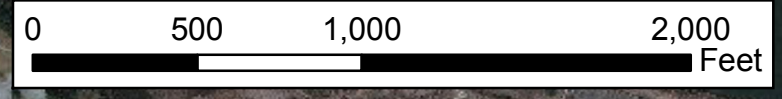
Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU) (At Contiguous Property)
- Monitoring Well
- Approximate RCRA Contiguous Property
- AWTC Facility Boundary
- AOCs
- SWMUs
- SWMU 11



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Alabama State Port Authority		
Permit Renewal Application		
Contiguous Property Map		
Prepared By-Date: SH 05/17/19		Figure: 22
Checked By-Date: TS 05/17/19		
Project Number: 6376181006		



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Document Type: D

Mobile County, Alabama
Bk: LR7684 Pg:1063
filed on : 09/26/2018 01:54:28 PM
Don Davis, Probate Judge
Deed Tax : \$0.00
Mortgage Tax: \$0.00
Mineral Tax : \$0.00
No Tax : \$0.00
Judge Fee : \$0.00
SR Fee: \$2.00
Surcharge Fee: \$0.00
Recording Fee: \$16.00
Total : \$18.00

2018055808
Bk: LR7684 Pg:1063

EXECUTION VERSION

SLT-171721
STATE OF ALABAMA
COUNTY OF MOBILE

§

This Instrument Prepared By:
T. Bruce McGowin, Esq.
Hand Arendall Harrison Sale LLC
104 St. Francis Street, Suite 300
Mobile, Alabama 36602
(251) 694-6342

STATUTORY WARRANTY DEED

Effective as of 12:01 AM Central Time on September 27, 2018, ALABAMA STATE PORT AUTHORITY, an agency of the State of Alabama, formerly known as The Alabama State Docks Department, an agency of the State of Alabama ("GRANTOR"), for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, has granted, bargained, sold, conveyed and delivered, and by these presents GRANTS, BARGAINS, SELLS, CONVEYS and DELIVERS unto MERCHANTS ALABAMA, LLC, an Alabama limited liability company ("GRANTEE"), its successors and assigns, subject to the exceptions, reservations and other matters specifically mentioned below, that certain parcel of land located in Mobile County, State of Alabama and more particularly described on Exhibit A attached hereto and made a part hereof for all purposes, and all buildings, structures, improvements, fixtures, easements, streets, roads, alleys, rights-of-ways, strips and gores, all other benefits accruing to the land and all other appurtenances thereon and thereto (all the foregoing being collectively referred to hereinafter as the "Land"), but expressly RESERVING unto Grantor, its successors and assigns, the right to withdraw and/or reinject sub-surface groundwater underlying the Land but without the right to drill, mine, explore, operate, produce, store or remove any such water through or on the surface of the Land and provided such withdrawal and/or reinjection shall not cause or result in any material subsidence of the Land or material change in the topography thereof and shall be conducted in accordance with all applicable federal, state, and local statutes and regulations, including, without limitation, Alabama Department of Environmental Management regulations and guidelines.

The Land is conveyed subject to the Permitted Encumbrances set forth in Exhibit B, attached hereto and made a part hereof.

TO HAVE AND TO HOLD the LAND, together with all and singular the rights, members, privileges, tenements, improvements, hereditaments, easements and appurtenances thereunto belonging or in anywise appertaining; subject, however, to the matters, exceptions and reservations to which reference is herein made, unto the said GRANTEE, and to the successors and assigns of GRANTEE, forever.

GRANTOR covenants to and with the GRANTEE that, except as to the matters, exceptions and reservations above referred to, GRANTOR is lawfully seized of said Land, the same is free from all encumbrances, and it and its successors will forever warrant and defend the

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title to said Land, as herein conveyed, unto the said GRANTEE, and unto the successors and assigns of GRANTEE, against the lawful claims of all persons claiming by, through or under GRANTOR, but not otherwise.

All recordations mentioned herein refer to the records in the office of the Judge of Probate of Mobile County, Alabama, unless otherwise indicated.

IN WITNESS WHEREOF, this Statutory Warranty Deed is executed and attested effective as of the date first provided above.

ALABAMA STATE PORT AUTHORITY,
an Agency of the State of Alabama,
formerly known as The Alabama State
Docks Department, an Agency of the State
of Alabama

ATTEST:

By: [Signature]
Name: Charry H. Downs

By: [Signature]
James K. Lyons
Its: Director

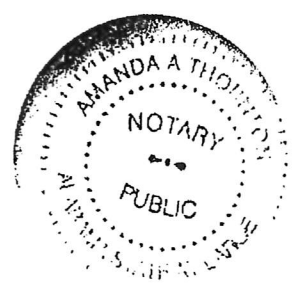
Witness: [Signature]
Print Name Deborah J. Geiger

Witness: [Signature]
Print Name Sheri Collins

STATE OF ALABAMA
COUNTY OF MOBILE

I, the undersigned Notary Public, in and for said County in said State, hereby certify that James K. Lyons, whose name as the Director and CEO of ALABAMA STATE PORT AUTHORITY, an agency of the State of Alabama, formerly known as The Alabama State Docks Department, an agency of the State of Alabama, is signed to the foregoing instrument and who is known to me, acknowledged before me on this day that, being informed of the contents of the instrument, he, as such Director and CEO and with full authority, executed the same voluntarily for and as the act of said state agency.

GIVEN under my official hand and seal this the 20 day of September, 2018.



[Signature]
Notary Public
My Commission Expires: My Commission Expires 05/10/2020

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**EXHIBIT "A" TO
 STATUTORY WARRANTY DEED FROM
 ALABAMA STATE PORT AUTHORITY TO
 MERCHANTS ALABAMA, LLC
 (Land)**

Beginning at the intersection of the East right of way line of Lawrence Street, (50' public R\W), with the Northeast right of way line of Yeend Street, (50' public R\W), in the City of Mobile, Alabama, said point being at Alabama State Plane coordinate, West Zone, NAD 1983 (1992), North 242,827.00 and East 1,796,289.46 and being marked by a 4-inch concrete monument; Thence N-08°-08'-32"-E, along the East right of way line of said Lawrence Street, for 146.12 feet to a point at the intersection of the East right of way line of said Lawrence Street with the South right of way line of Baker Street Extension, (variable width public R\W); Thence Northeasterly, leaving the East right of way line of said Lawrence Street, along the South right of way line of said Baker Street Extension and around a curve to the right having a radius of 260.00 feet and a delta angle of 36°-01'-25", the chord of which bears N-80°-38'-26"-E for 160.79 feet, for an arc distance of 163.47 feet; Thence S-81°-20'-51"-E, along the South right of way line of said Baker Street Extension, (80-foot public R\W), for 954.81 feet; Thence S-00°-30'-14"-E, leaving the South right of way line of said Baker Street Extension, for 158.49 feet; Thence S 37°-51'-11"-E for 192.19 feet; Thence S-21°-37'-48"-E for 50.00 feet; Thence S-68°-22'-12"-W for 42.39 feet; Thence S-05°-31'-32"-E for 52.56 feet; Thence S-76°-15'-32"-E for 83.34 feet; Thence S-02°-15'-25"-E for 251.26 feet; Thence S-17°-15'-36"-W for 139.46 feet; Thence S-56°-36'-45"-W for 91.57 feet; Thence S-25°-22'-17"-W for 184.80 feet; Thence N-21°-37'-48" W for 536.42 feet; Thence N-81°-20'-51"-W for 104.31 feet; Thence S-68°-22'-12"-W for 366.93 feet to a point at the Southeast corner of the right of way of aforesaid Yeend Street; Thence N 36°-47'-48"-W, along the Northeast right of way line of said Yeend Street, for 799.02 feet to the Point of Beginning and containing 18.026 acres or 785213 square feet, more or less.

**Surety Land Title
 5909 Airport Blvd.
 Mobile, AL 36608**

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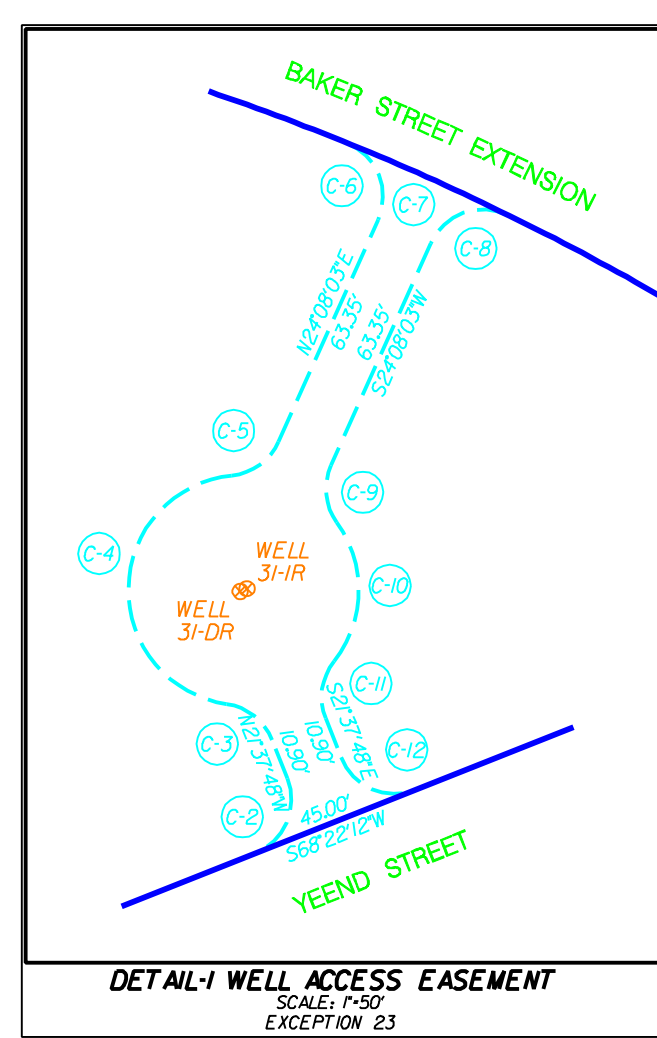
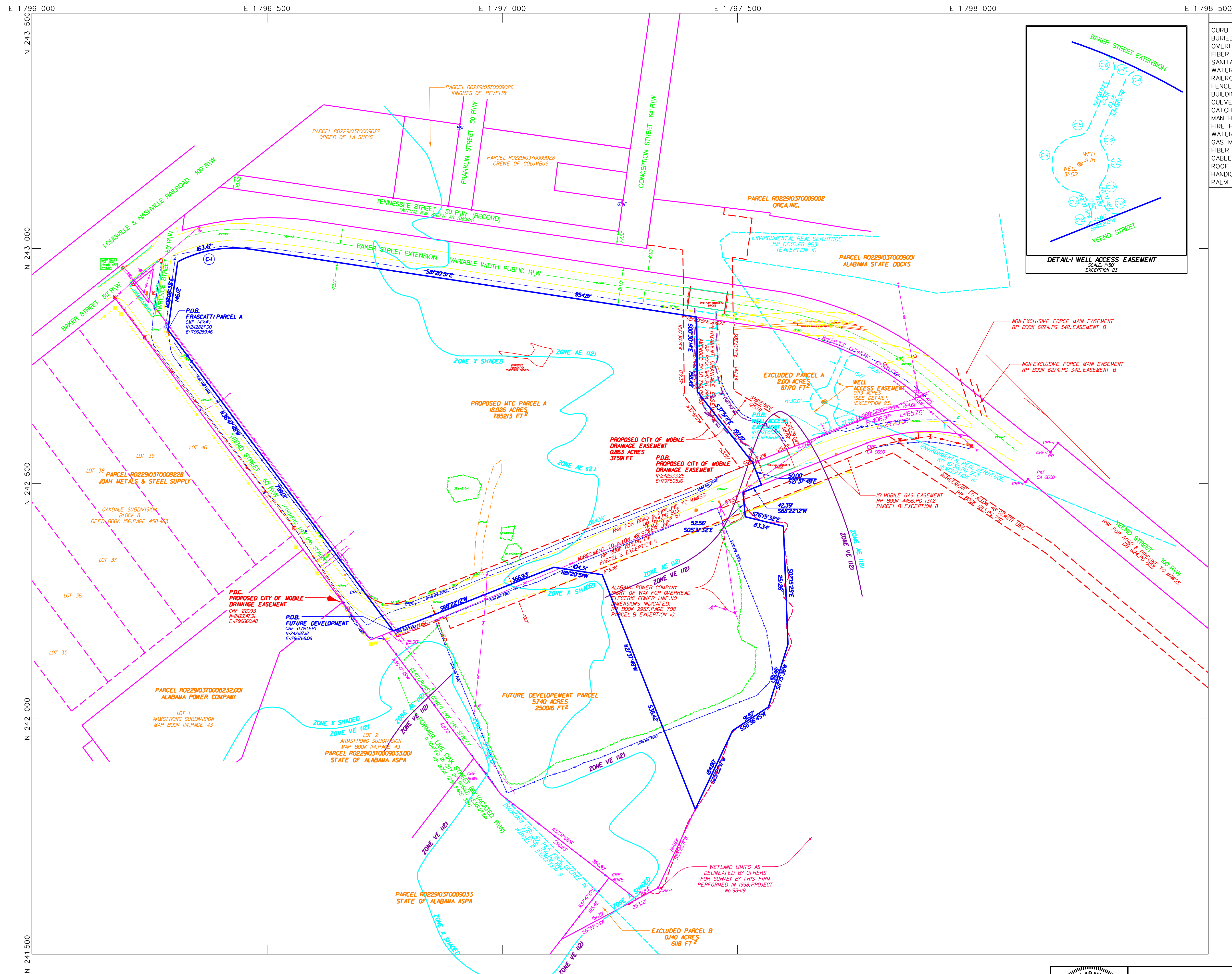
**EXHIBIT "B" TO
STATUTORY WARRANTY DEED FROM
ALABAMA STATE PORT AUTHORITY TO
MERCHANTS ALABAMA, LLC
(Permitted Encumbrances)**

1. All rollback taxes, if any, for any year and the current year's taxes, assessments, water rates and other governmental charges of any kind or nature imposed on or levied against or on account of the Land.
2. Restrictions on Grantee's ability to build upon or use the Land imposed by the Grantor's Architectural Standards and any current or future building or zoning ordinances or any other law or regulation of any Governmental Authority.
3. All claims of Governmental Authorities in and to any portion of the Land lying in the bed of any streams, creeks or waterways or other submerged lands as shown on the Survey (as hereafter defined).
4. Any and all restrictions on use of the Land due to environmental protection laws, including, without limitation, wetlands protection laws, rules, regulations and orders.
5. All previous reservations, exceptions and conveyances of oil, gas, associated hydrocarbons, minerals and mineral substances and royalty and other mineral rights.
6. Permanent drainage easement granted the City of Mobile, a municipal corporation by the Alabama State Port Authority, an agency of the State of Alabama, dated April 1, 2002 and recorded in Real Property Book 5147, Page 292, and related culverts, as amended by instrument dated January 21, 2014 and recorded in Land Records Book 7116, Page 50, as shown on survey by W. J. Lawler, HI, PLS, of Lawler and Company, dated November 13, 2017, Project No. 17-057 as lastly revised on April 16, 2018 (the "Survey").
7. Right of way granted Mobile Gas Service Corporation by the State of Alabama, acting by and through the Alabama State Docks Department, an agency of the State of Alabama, dated March 17, 1997 and recorded in Real Property Book 4456, Page 1372, as shown on the Survey.
8. Easement granted Alabama Power Company by the Alabama State Docks Department, dated July 1, 1986 and recorded in Real Property Book 2957, Page 708, as shown on the Survey.
9. Terms, conditions, provisions and restrictions of all permits and licenses of federal, state and local government, including applicable agencies and departments and private and quasi-governmental agencies having jurisdiction over the real property, including, but not limited to restrictions on construction of any areas delineated by government agencies as wetlands, the general location of said wetlands being shown on the Survey.
10. Any claim arising by reason of fences not being located on the true property lines as shown on the Survey.

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- 11. Overhead utility lines, poles, guy anchors, twenty-four-inch reinforced concrete pipe, sheet pile wall, sanitary sewer lines, and proposed City of Mobile drainage easements, as shown on the Survey.
- 12. Non-Exclusive Construction Easement Agreement by and between the Alabama State Port Authority, an agency of the State of Alabama, and the Board of Water and Sewer Commissioners of the City of Mobile, a public corporation organized under the laws of the State of Alabama, dated June 26, 2015 and recorded in Land Records Book 7286, Page 1519, as noted on the Survey.
- 13. Rights of the United States, State of Alabama, or other parties in and to the bed, shore and waters of Garrows Bend.
- 14. Agreement by and between Gulf, Mobile and Ohio Railroad Company, a corporation, and the Board of Water and Sewer Commissioners of the City of Mobile, a public corporation as to a forty-eight (48) inch sewer pipe, dated August 9, 1972 and recorded in Real Property Book 1213, Page 797, as shown on the Survey.
- 15. Any existing pipelines located within the vacated easement area, as evidenced by that certain right of way for roadway and pipe line purposes granted the Board of Water and Sewer Commissioners of the City of Mobile, Alabama, by Gulf, Mobile and Ohio Railroad Company, a corporation, dated September 30, 1954 and recorded in Deed Book 624, Page 603, as shown on the Survey.

Surety Land Title
5909 Airport Blvd.
Mobile, AL 36608



LEGEND

CURB LINES	WATER VALVE	PARCEL BOUNDARY
BURIED TELEPHONE	TELEPHONE BOX	ADJOINING PROPERTY
OVERHEAD LINES	UNKNOWN ELECTRICAL	SECTION LINE
FIBER OPTIC CABLE	STREET LIGHTS	SET BACK LINES
SANITARY SEWER	POLES	EASEMENTS
WATER MAINS	GUY ANCHORS	SPOT ELEVATIONS
RAILROAD	TRANSFORMERS	INDEX CONTOURS
FENCES	ACCENT LIGHTS	CONTOURS
BUILDINGS	SHORELINES	TEMPORARY CONTROL POINT
CULVERTS	SIGNS	MONUMENTS
CATCH BASINS	DECIDUOUS TREES	IRON PINS & PIPES AS NOTED
MAN HOLES	GATE VALVE	RCP-REINFORCED CONCRETE PIPE
FIRE HYDRANT	HVAC UNIT	CRS-LAWLER 1/2" CAPPED REBAR SET
WATER METER	PIPE STUB	CTIF-CRIMP TOP IRON PIPE FOUND
GAS METER	SANITARY CLEAN OUT	REC-DEED RECORD DIMENSION
FIBER OPTIC CABLE	R/W-RIGHT OF WAY	ACT-ACTUAL FIELD MEASUREMENT
CABLE TV BOX	CMP-CORRUGATED METAL PIPE	CRF-CAPPED REBAR FOUND
ROOF DRAIN	CONC.-CONCRETE	IRF-IRON ROD (REBAR) FOUND
HANDICAP PARKING	A/C-CENTRAL HVAC UNIT	XF-SCRIBED X FOUND IN CONCRETE
PALM TREES	SEC.-GENERAL SECTION	CMF-CONCRETE MONUMENT FOUND

CURVE No.	RADIUS	LENGTH	DELTA	CHORD BEARING	DISTANCE
C-1	2600.00'	163.47'	36.0125°	N87.3826°E	160.17'
C-2	1500.00'	23.56'	90.0000°	N2.3212°E	21.21'
C-3	1500.00'	15.71'	60.0000°	N57.3748°W	15.00'
C-4	3000.00'	86.79'	165.455°E	N0115.08°E	59.54'
C-5	1500.00'	15.71'	60.0000°	N54.0803°E	15.00'
C-6	1500.00'	24.09'	92.0000°	N24.5159°W	21.58'
C-7	659.13'	46.06'	04.0000°	S65.5157°E	46.05'
C-8	1500.00'	24.09'	92.0000°	S70.0905°W	21.58'
C-9	1500.00'	15.71'	60.0000°	S05.5157°E	15.00'
C-10	3000.00'	38.87'	74.1409°	S0715.08°W	36.21'
C-11	1500.00'	15.71'	60.0000°	S08.2212°W	15.00'
C-12	1500.00'	23.56'	90.0000°	S66.3748°E	21.21'

FLOOD ZONE:
FEMA FIP FLOOD INSURANCE RATE MAP 01097C0566K DATED MARCH 17, 2010, SHOWS THIS PROPERTY IN ZONE VE, BASE FLOOD ELEVATION 12.0' NAVD 1988, ZONE AE, BASE FLOOD ELEVATION 12.0' NAVD, AND ZONE X. FLOOD ZONE DETERMINATION MADE FROM GRAPHIC PLOTTING ONLY.

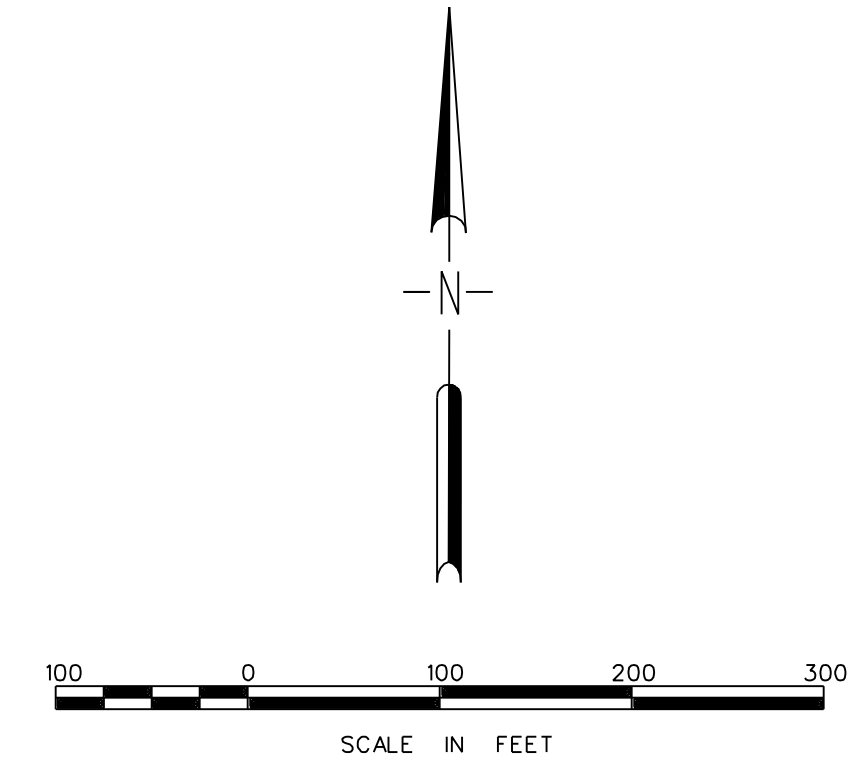
UTILITY NOTE:
UTILITIES SHOWN FROM VISIBLE SURFACE EVIDENCE AND AS MARKED BY LINE LOCATOR SERVICE AND INDIVIDUAL UTILITY PROVIDERS.

GENERAL NOTES:
500 FOOT GRID BASED ON ALABAMA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83. BEARINGS REFER TO GRID NORTH, YIELDING A BEARING OF N36°47'48"W ALONG THE NORTHEAST R/W LINE OF YEEND STREET. TOPOGRAPHIC DATA COLLECTED WITH LEICA TOTAL STATIONS IMPROVEMENTS, IF ANY, NOT SHOWN. FIELD SURVEY COMPLETED IN MAY, 2017. UTM CADD FILE: \\gdn\ASPA\CHOCTAW\17057-MTC-FRASCATTI-ALT.DGN

CERTIFICATION:
I, W. J. LAWLER, II, A REGISTERED LAND SURVEYOR IN THE STATE OF ALABAMA, HEREBY CERTIFY THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

THIS 13th DAY OF NOVEMBER, 2017

W. J. Lawler, II
W. J. LAWLER, II PLS 17513



REVISIONS

MTC LOGISTICS OF ALABAMA
PARCEL BOUNDARY SURVEY OF
PROPOSED MTC FRASCATTI PROPERTY DIVISION

REF: MTC LOGISTICS--BROOKS ROYSTER

DATE: 13 NOV., 2017 SCALE: 1"=100' SHEET 02 OF 02

PROJ. No. 17-057 DWG. No. 17-057-2

LAWLER AND COMPANY
LAND AND INDUSTRIAL SURVEYORS
2879 CLAUDIA LANE
THEODORE, ALABAMA 36582
(251) 661-9411 FAX (251) 661-9177

ALABAMA REGISTERED PROFESSIONAL LAND SURVEYOR No. 17513