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Hazardous Materials, Storage Tanks, and Wellfields

Hazardous Materials

We are here to assist you with your online applications in the following ways:

- Apply or Renew Online 24 hours, 7 days a week (see Apply Online & Renew Online links below)
- Get assistance by phone or email from your License Coordinator (under Contact Us below) during normal business hours (7:30am-4:00pm, Monday-Friday)
- Get in-person assistance by appointment on Tuesday and Thursday mornings (8:00am-noon)
 1. To schedule an appointment, log into the [QLess Home Kiosk](#) and select **Environmental: Hazardous Materials** or Contact your License Coordinator (under Contact Us below), P2LICENSING@broward.org, or call 954-519-1483.

The Environmental Permitting Division (EPD) regulates the use, storage, handling and disposal of Hazardous Materials. If a business uses, stores or handles 25 gallons or more of hazardous materials, the business requires a Hazardous Materials License. A hazardous material is defined as any substance or mixture of substances which meets any one (1) of the following criteria:

- Hazardous waste as defined or identified in 40 CFR parts 260—265 and appendices, promulgated pursuant to the Resource Conservation and Recovery Act, 42 U.S.C. § 9601, et seq., as amended, and rule 62-730, F.A.C., as amended.
- Any substance listed in [Chapter 27, Article XIII, Wellfield Protection, Appendix A, Broward County Code of Ordinances](#) (once at Municipal Code Web Site, select Chapter 27 to show all Articles. Click on Article XIII).
- Any petroleum product or any material or substance containing discarded petroleum products.
- Any substance identified as hazardous (see [Title III, Consolidated List of Chemicals](#)) in the most current version of any of the following regulations:
 - Comprehensive Environmental Response Compensation, and Liability Act (CERCLA) (42 U.S.C. § 9601, et seq.).
 - Emergency Planning and Community Right-to-Know Act (EPCRA) (42 U.S.C. § 11001, et seq.).
 - Hazardous Material Transportation Act (49 U.S.C. § 1801, et seq.).
 - Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) (7 U.S.C. § 136(a)-(y)).

Anyone in the process of treating, storing, or disposing of hazardous waste in the State of Florida must have a [permit from the State of Florida](#). A hazardous materials facility is any site or area, excluding vehicles used solely for transportation of people or property, where either of the following occurs:

- Any extremely hazardous substance in excess of the threshold planning quantity as defined by the most current version of the Emergency Planning and Community Right-to-Know Act ([42 U.S.C. § 11001](#), et seq.)
- Within a month period, an aggregate amount of 25 gallons or more of hazardous materials or an equivalent dry volume of hazardous materials are stored, handled, generated, used, processed, manufactured, disposed or are otherwise present. For dry volume divide the units of pounds by 10.
- If the operations handle 25 gallons or more of hazardous materials including aboveground storage tanks up to 550 gallons in size apply for a Hazardous Materials License.
- If the operations handle hazardous materials in underground tanks larger than 110 gallons and/or aboveground tanks larger than 550 gallons apply for a Storage Tank License.
- When modifying a storage tank system or its parts, apply for a Storage Tank Modification License (See Storage Tanks section below)

Any facility inside a Wellfield Zone requires a [Hazardous Material Management Facility License](#).

For more information, please contact Eduardo Koenig at 954-519-1406, ekoenig@broward.org, or Valerie Phipps at 954-519-1203, vphipps@broward.org or Dale Scott at 954-519-1276, dscott@broward.org.

Hazardous Materials License

New operations using, handling or storing 25 gallons or more of hazardous materials require a license. Fees are based on the type of operation and number of employees handling hazardous materials; Review the [Fee Schedule](#) for category and fee or call us at 954-519-1483.

You may [Complete an Application](#) or you may apply online through our ePermits site:

[Apply Online](#)

Renew Hazardous Materials License

Renewal notices are sent by mail three (3) months and one (1) month before the license expires. The license can also be renewed [online](#) prior to expiration. Please be advised you will need the renewal notice with the provided password in order to renew online.

[RENEW ONLINE](#)

Transferring a Hazardous Materials License to New Operator

If you sell your business, buyer and seller must sign an Application for Transfer (Instructions below) through our ePermits website, or complete a hardcopy [Application for Transfer](#) and submit by mail. The transfer can be initiated by buyer or seller. In lieu of the prior owner completing and signing the application, the new owner can provide a copy of the first page and signature page of the Bill of Sale.

Hazardous Material Management Facility License (HMMF License)

Permit Type

Hazardous Material Management Facility License (HMMF License)

Application Links:

- [View Application](#)
- [Apply Online](#)
- [Renew Online](#)

Service Agency

Environmental Permitting Division

Contact Info

If you have questions or need help with your hazardous materials license, contact us at the number assigned for your zip code or email us.

33004-33029 & 33060-33062, BP (Automated Petroleum), Government (except Cities) – Bret Maxwell 954-519-0308

33063-33076 & 33301 CVS Verizon, New Cingular (AT&T) – Valerie Phipps 954-519-1203

33304-33315, Cities, Tire Kingdom, FCE (First Coast Energy) – Johanna Polycart 954-519-1269

33316-33442, Broward College, Publix, 7-Eleven/Speedway, School Board – Andrea Gibbs 954-519-1485

Instructions

Apply online through [ePermits](#) (preferred) or mail a completed application to the address indicated on the form. Before you can access the online application, you will need to have a user-id and password. If you do not have a user-id, then you will need to register for an account.

Once signed in, select “Submit Application” on left side of screen. Select “Hazardous Material Management Facility License” from the drop-down list of permits. Fees are based on the type of

operation and number of employees handling hazardous materials. Review the [Fee Schedule](#) for category & fee or contact us. Applications for new licenses should be submitted no sooner than thirty (30) days prior to when the hazardous materials will be brought on-site.

[ePermits User Guide](#)

Other Requirements

If applying for a license for a Significant Environmental Impact Facility, you may be required to provide public notices. For more information, please contact John Sainval at (954) 519-1229 (jsainval@broward.org), or Brenda Rivera at 954-519-1432 (brivera@broward.org).

Permit Required For

A HMMF License is required for a business that uses, stores, handles, and/or generates twenty-five (25) gallons or more of hazardous materials (all total) within a month. In addition, a Hazardous Material Management Facility License may be required if a business is located within a wellfield zone of influence and uses, stores, handles, and/or produces regulated substances.

Permit Process

Applications are generally processed by licensing staff within five (5) business days of receipt. For applications submitted online, the applicant will be notified via email when the fee is available to be paid online or if additional information or documentation is required. For applications submitted in the mail, the applicant will be notified via email and/or mail if additional fees are due or if additional information or documentation is required. The HMMF License will be issued after the original inspection has been completed and after the license has been approved. Original inspections are generally completed within thirty (30) days of scheduling.

Tips to Avoid Delays

- Hazardous Material (HMMF) application form or ePermit submittal must indicate complete/correct contact information (i.e., email address, phone number, address)
- Pay the required fees
- Follow up with the License Coordinator if the Applicant does not have a scheduled original inspection date after 30 days of completed HMMF application submittal.

Address Change for the facility listed on Hazardous Materials License

Licenses are issued for the address specified on the initial application. If the operation moves to a new address, the business needs to complete: 1) A [Closure Notification Form](#) prior to initiating closure activities at the address being moved from; and 2) An [Application for Hazardous Material](#)

[Management Facility License](#) for the new location.

Operating Below the Threshold Affidavit

If you determine your business currently operates at a level below the licensing threshold outside the Wellfield Zones 1 and 2 and no regulated substances are stored inside Wellfield Zones 1 or 2, the [Operations Below The Threshold Affidavit](#) must be completed and submitted. (Licensing thresholds are defined in the [Hazardous Materials Fact Sheet](#).)

Additional Information

- [Chapter 27, Article XII, Hazardous Material, Broward County Code of Ordinances](#)

Contact Us

If you have questions or need help with your hazardous materials license, contact us at the number assigned for your zip code or [email us](#).

- 33004-33029, BP (Automated Petroleum), Government (except Cities) - [954-519-0308](#)
- 33060-33063 & 33330-33442, 7-Eleven, AT&T (New Cingular Wireless) - 954-519-1225
- 33064-33076, CVS, FCE (First Coast Energy), School Board, Verizon – [954-519-1203](#)
- 33311-33316, Cities, Tire Kingdom – [954-519-1269](#)

33301-33309 & 33317-33328, Sprint, Broward College – [954-519-1485](#)

Best Management Practices

Best Management Practices can be found on the Florida Department of Environmental Protection: [Hazardous Waste Publications website](#).

Storage Tanks

We are here to assist you with your online applications in the following ways:

- Apply or Modify Online 24 hours, 7 days a week (see ST License Application Form link below)
- Get assistance by phone or email from your License Coordinator (Under Contact Us in Hazardous Material Section) during normal business hours (8:00am-4:30pm, Monday-Friday).
- Get in-person assistance by appointment on Tuesday and Thursday mornings (8:00am-noon)
 1. To schedule an appointment, log into the [QLess Home Kiosk](#) and select **Environmental: Storage Tanks** or Contact your License Coordinator (under Contact Us on Haz Mat Webpage), P2LICENSING@broward.org, or call 954-519-1483.

Broward County regulates the storage of hazardous materials aboveground and underground storage tanks. Storage tanks regulated under [Chapter 27, Article X, Storage Tanks, Broward County Code of Ordinances](#), have capacities greater than 550 gallons if they are aboveground and greater than 110 gallons if they are underground. Tanks of smaller volumes are regulated under the Hazardous Material regulations.

Chapter 27, Article X, Storage Tanks, manages the inspection and licensing of businesses which have storage tanks on their property to prevent contamination of our groundwater. Questions regarding [Chapter 27, Article X](#) can be directed to John Sainval at (954) 519-1229 (jsainval@broward.org) or Valerie Phipps at 954-519-1203 (vphipps@broward.org) or Brenda Rivera at 954-519-1432 (brivera@broward.org).

Broward County Launches Online Licensing for Storage Tanks

Storage Tank customers can now submit applications for new storage tank facilities or modifications to currently licensed facilities. Access [ePermits](#) at any time to submit applications, upload documents and pay fees. Review the [Fee Schedule](#) for category and fee.

- [ST License Application Form \(County\)](#)
- [FDEP Storage Tank Forms \(State\)](#)

Storage Tank Construction, Closure and Modification Requirements

A Broward County Storage Tank Facility License is required prior to building, erecting, operating, modifying, closing or replacing in whole or in part any storage tank system that is intended to store hazardous material in Broward County.

Storage Tank Modification Requirements

Broward County Storage Tank Construction/Closure Modification Requirements

A Broward County Storage Tank Facility License is required prior to building, erecting, operating, modifying, closing or replacing in whole or in part any storage tank system that is intended to store hazardous material in Broward County. Aboveground storage tank systems with capacities greater than 550 gals and underground storage tank systems with capacities greater than 110 gals are subject to [Broward County Chapter 27, Article X, Storage Tanks regulation](#).

Special Note: Effective 2/26/2013, Chapter 27, Pollution Control, of the Broward County Code of Ordinances (Code), Article X, Storage Tanks, no longer requires Stage II Vapor Recovery (Stage II) Systems be installed at Gasoline Dispensing Facilities (GDF). However, GDF owners or operators with existing Stage II systems must either continue to maintain and operate their systems in accordance with the Ordinance or file for a License Modification approval/permit to close, remove, or decommission their Stage II system in accordance with the Code. It shall be prohibited to dismantle, remove, disconnect, cease to operate, close or decommission Stage II systems without applying for, and obtaining a License Modification approval prior to performing any of the aforementioned activities.

The License approval process consists of the review of a Broward County Storage Tank Facility License application along with engineering drawings signed and sealed by a Professional Engineer (P.E.) licensed in the state of Florida. Steps taken to approve the application package are summarized in the following checklist. This checklist was created to serve as a guide to the owner/operator, contractor, or engineer through the storage tank modification/construction approval process.

Storage Tank Facility License Application

- As part of the latest electronic Permit (ePermits) release, Storage Tank customers can now submit applications for new storage tank facilities or modifications to currently licensed facilities. This service can be accessed at any time to submit applications, upload documents, and pay fees.

Storage Tank Facility License

Application Links:

- [View Application](#)
- [Apply Online](#)

Service Agency

Environmental Permitting Division

Contact Info

954-519-1483

Instructions

All New Storage Tank Facility License or Tank Modification Applications should be submitted through ePermits. Before you can access the online application, you will need to have a user-id and password. If you do not have a user-id, then you will need to register for an account.

Once signed in, select “Submit Application” on left side of screen. Select “Storage Tank Facility License” from the drop-down list of permits. Select “New” if applying for a new Storage Tank Facility License, or select “Modification” if the business already has an existing Storage Tank Facility License and you are applying for a license modification. If applying for a Modification, enter the License number to modify (i.e., ST-55555-20).

Continue entering the requested information when prompted while completing the online application.

Engineering plans signed and sealed by a Professional Engineer (P.E.) licensed in the state of Florida are required. Review Engineering Plans requirements. Upload the engineering plans when prompted. If uploaded plans are not digitally sealed by the Florida P.E., then the ePermits electronic signature document (SHA-1 Report) must be generated, signed, sealed by the P.E., and uploaded to the application pursuant to [61G15-23 F.A.C.](#)

The application must be signed by the owner/operator or by an authorized agent. A letter of authorization is required for applications signed by authorized agents. A Pollutant Storage System Contractor (PSSC) signature is required for construction/modification activities involving underground storage tank systems. If applicable, an email will be sent to other parties notifying them that they need to electronically sign the application.

The fee will be available to be paid online once Licensing staff has processed the online application. Review the [Storage Tank Fee Schedule](#) or contact us at the Contact Info below. The applicant and related parties will receive an email when the fee is available to be paid online.

[ePermits User Guide](#)

Other Requirements

Certain [State of Florida](#) registration and reporting requirements may also apply. If you are applying for a license to construct, operate, or make a major modification to a Significant Environmental Impact Facility, you may be required to provide public notices. For more information, please contact John Sainval at (954) 519-1229 (jsainval@broward.org), or Brenda Rivera at 954-519-1432 (brivera@broward.org).

Permit Required For

A Storage Tank Facility License/Permit is required prior to building, erecting, operating, modifying, replacing, or closing any storage tank system for storing hazardous materials.

Permit Process

Applications are generally processed by licensing staff within one (1) business day of receipt. The applicant and related parties will be notified by email when the fee is available to be paid online or if additional information or documentation is required. The application will not be considered complete until all fees have been paid, engineering plans have been uploaded, and all parties have signed the application.

Once the application is complete, an engineer will review the submittal for technical sufficiency. You may email [John Sainval](#) or call 954-519-1229, or email [Valerie Phipps](#) or call 954-519-1203, or email [Brenda Rivera](#) or call 954-519-1432 for further information.

Tips to Avoid Delays

- Ensure submitted storage tanks engineering drawings and documents are digitally signed and sealed by a Florida Licensed Professional Engineer (P.E) or a SHA-1 report must be provided with the electronically signed documents.
 - An authorization letter must be provided from the company's authorized agent or representative if the Owner/Operator does not sign the application.
 - Facility name and address must have the same information on the Florida Department of Environmental Protection (FDEP) registration, Storage Tank application and plans.
 - Pay the required fees.
 - Ensure the Storage Tank application form is completed and signed by the responsible parties.
-
- Following are alternatives and other steps needed to complete your License application.
 - A [License application](#) package, consisting of the Storage Tank Facility License application and 4 sets of signed and sealed engineering plans, must be submitted to the Environmental Permitting Division (EPD) for approval prior to commencing storage tank construction, closure or modification activities.
 - Complete all items on the application.
 - The specifications in item 8 (Storage Tanks) must be consistent with the requirements of Chapter 27, Article X, Storage Tanks, Broward County Code; Chapters 62-761, 62-762, and 62-252 Florida Administrative Code; Florida Building Code; Broward County Local Amendments to the Florida Fire Prevention Code and reference standards as listed in these codes. (See list of Reference Standards below).

- Stage II Vapor Recovery System **is no longer required or recommended and is no longer available on application form.** (See Special Note above).
- If item 10 is answered “YES” indicating de-watering will take place during the construction or if the facility is listed on the Environmental Permitting Division’s (EPD) list of contaminated sites, the engineering plans will be reviewed by the EPD. [Click here to view contaminated sites and their locations](#). De-watering activities at/or within 1/4-mile radius of contaminated sites will be reviewed by the EPD and will require additional information prior to approval. [Click here to view information regarding de-watering](#).
- Item 13 (Applicant’s certification) must be completed and signed by the owner/operator or authorized agent. The Certified Pollutant Storage System Contractor (PSSC) must also complete and sign this section for construction/modification involving underground storage tank systems. [Click here to view the list of PSSC](#).
- Upon receiving the application package, the EPD will perform a preliminary administrative review of the application and determine the License fee to be paid.

Engineering Plans

All construction, engineering plans, or drawings accompanying the application shall consist of the following:

- When submitted through ePermit, electronic engineering drawings shall be digitally signed, dated and sealed or utilize an electronic signature that creates a 'digital signature' file as prescribed by 61G15-23 F.A.C. If the electronic signature method is used, an authentication code or SHA-1 report must be created, printed and manually signed, dated, sealed and sent to EPD with the electronic plans as prescribed by 61G15-23 F.A.C.
- All engineering hard copy plans or drawings (blueprints) must be signed, sealed, and dated by a Professional Engineer licensed in the state of Florida. Blueprint copies sized 24" X 36" are preferred.
- A title block shall be used on each sheet of plans or prints and shall contain the printed name, address, and license number of the engineer who has signed, dated and sealed the plans or prints.
- Blueprints must have an appropriate scale reference and/or dimensioned in feet or meters.
- A site map showing the facility location in relation to streets, highways, avenues, buildings, etc., and north directional arrow.
- The complete storage tank facility address shown on all blueprint pages.
- Show plan and elevation views of tanks, piping, pumps, fuel dispensers, secondary containment systems, monitoring well locations or other approved release detection systems proposed. Indicate the manufacturer's name, make, model and type (manual or electronic) of release detection system to be used or installed.

- Show storage tank/piping size, depth, buoyancy and wind moment calculations, backfill material, slab details, anchorage details, secondary containment details and material. Stage II vapor recovery pipe configuration, size, and vent pipe size must be included.
- Indicate the scope of work to be performed and the description of approved materials required for construction.
- Indicate the name and license number of the PSSC contracted to perform the work (optional). This information must be the same as shown on the License application.
- The manufacture name, model, and type of the storage tank, overfill prevention, spill containment, submersible pump with line-leak-detector, suction pumps, check valves, anti-siphon valves, shear valves, tank/pipe membrane liner, interstitial release detection, tank gauge, pump and dispenser sump/liner. Storage Tank System equipment or components must have the approval of the Florida Department of Environmental Protection (FDEP) before installation or use. [Click here to view the current approved equipment/components](#)
- Show building and/or canopy footing depth relative to ground water depth where applicable.
- An engineer from the EPD will review the blueprints for technical sufficiency, and if approved, will affix the "APPROVED RE: CHAPTER 27 - ARTICLE X STORAGE TANKS" green color stamp on the blueprints.

NOTE. After EPD approval of the application and engineering plans, the owner or their authorized agent is required to notify the EPD for the purpose of scheduling an inspection by contacting John Sainval at (954) 519-1229 (jsainval@broward.org) or Valerie Phipps at (954) 519-1203 (vphipps@broward.org) or Brenda Rivera at (954) 519-1432 (brivera@broward.org) at least forty-eight (48) hours prior to the start of the construction, closure or modification activity.

Post Construction Activity

- Within thirty (30) days after completing the storage tank installation, replacement, or upgrade modification, the following items are required to be submitted to EPD:
 - Signed, sealed, and dated Engineer's "As-built" or "Record" plans/drawings from the Professional Engineer. These drawings will be reviewed and compared against previously submitted engineering plans and must contain items that have been installed or modified under the approved License modification.
 - Storage tank and piping tightness tests, line leak detector test, Stage I and Stage II Vapor Recovery System Certification tests (such as pressure decay, dynamic backpressure, Pressure-Vacuum vent valve and A/L ratio tests) when applicable, from the certified testing company.
 - The Underground Storage Tank System Installation and Removal Form for Certified Contractors, Florida Department of Environmental Protection (FDEP) Form 62-761.900(5) from the PSSC.

- Upon receipt of the above documents, EPD will review and issue a storage tank Operating Approval letter to the storage tank owner/operator.

Post Closure Activity

- A Storage Tank System Closure Assessment Report or Instructions for Conducting Sampling During Underground or Aboveground Storage Tank Closure or a Limited Closure Summary Report, July 2019 Edition, is required to be submitted to EPD within sixty (60) days after the storage tank system closure, replacement, or upgrade modification activity. [Follow this link to view the above report forms and requirements.](#)
- Upon receipt of the above document, EPD will review it and issue a follow-up response letter to the storage tank owner/operator and consultant regarding further environmental remedial action as required.

Aboveground Storage Tank (AST) Systems Construction Guidelines

- All AST and aboveground piping material storing flammable or combustible products shall be constructed of steel, metallic or non-metallic materials as allowed in accordance with NFPA 30 & 30A. ASTs containing non-flammable/combustible materials may be made from non-metallic materials, installed and used in accordance with the manufacturer's specifications or approved by the EPD or FDEP. Underground piping shall be constructed of fiberglass reinforced plastic (FRP), cathodically protected metal, or other EPD or FDEP approved material and be secondarily contained.
- The maximum storage capacity limitation, setbacks, and location for flammable or combustible products must comply with the Broward County Local Amendments to the Florida Fire Prevention Code. [Click here to find the Broward County Local Amendments to the Florida Fire Prevention Code that may be viewed at the following website.](#)
- ASTs must be constructed within secondary containment. The secondary containment must be 110% of the volume of the largest tank within the diked area. The secondary containment structure must be sealed to ensure that it meets the permeable leak rate requirements of 1x10⁻⁷ cm/sec or less. Secondary containment concrete structures must meet ACI International construction standards or an equivalent method as prescribe by the code. Approved double-walled tanks with 360o containment are considered secondarily contained.
- An AST cannot be used or reused as a UST, or a UST cannot be used or reused as an AST unless it is recertified for use by a professional engineer licensed in the State of Florida, or by the manufacturer.
- The release detection system used must be of the manual or electronic type and located to monitor within the interstitial tank walls or the lowest point within the secondary containment system as referenced in the storage tank rules of Chapter 62-762 F.A.C and Chapter 27, Article X Broward County Code.

Underground Storage Tank (UST) Systems Construction Guidelines

- UST systems must be installed by a Certified Pollutant Storage System Contractor (PSSC).
- All USTs must have secondary containment and be constructed of cathodically protected steel, Fiberglass Reinforced Plastic, Fiberglass Reinforced Clad Steel, or other material approved by EPD or FDEP. Single walled tanks installed inside an approved synthetic liner are acceptable but not recommended.
- An UST cannot be used or reused as an AST, or an AST cannot be used or reused as an UST unless it is recertified for use by a professional engineer licensed in the State of Florida, or by the manufacturer.
- Secondary containment synthetic membrane liner material must be approved by the EPD and FDEP and constructed to meet the permeable rate of 1×10^{-7} cm/sec or less. Minimum thickness of 30 mil thick liners required.
- Steel coated tanks must be constructed in accordance with UL-58, UL-1746, STI ACT100 or other reference standards as prescribed by the code.
- The maximum storage capacity limitation, setbacks, and location for flammable or combustible products must comply with the Broward County Local Amendments to the Florida Fire Prevention Code. [Click here to view the Broward County Local Amendments to the Florida Fire Prevention Code.](#)
- Monitoring well release detection systems are required for tank systems located inside Zone 1, 2, or 3 of a public water supply well in accordance with the Wellfield Protection Ordinance Article XIII, Chapter 27 Broward County Code. The location and construction requirements of these wells must be determined by the EPD Wellfield Protection Section.
- The release detection system used must be of the manual or electronic type and located to monitor within the interstitial tank walls or the lowest point within the secondary containment system as referenced in the storage tank rules of Chapter 62-761 Florida Administrative Code and Chapter 27, Article X Broward County Code.
- Spill containment and overfill prevention systems with automatic shut off, high level alarm or other EPD or FDEP approved method must be installed as required.
- Line leak detectors must be installed on pressurized piping systems and upstream of the integral piping to be protected (at the submersible pump outlet) or as per manufacturer's instructions.
- A shear valve or emergency shutoff valve must be installed and anchored at the base of the dispenser for pressurized integral piping system.
- Vapor return, vent, and suction product piping must slope at least 1/8" per linear foot back to the UST. Vapor and vent pipe diameter must be 2" minimum.

- Gasoline storage tanks vent pipes must extend to 12' (feet) above finish grade and be equipped with pressure-vacuum vent relief valves.
- A shear valve is not required under suction pumps located at the dispenser.
- Dispenser sumps or liners must be placed underneath dispensers.
- Monitoring well release detection systems must be installed for storage tank systems that are located inside Zones 1, 2 or 3 of a public water supply Wellfield in accordance with Article XIII, Wellfield Protection of Chapter 27 Broward County Code. The location and construction requirements of these wells must be determined by the EPD Wellfield Protection Section.
- Gasoline storage tanks vent pipes must extend to 12' (feet) above finish grade and be equipped with pressure-vacuum vent relief valves.
- Shop fabricated and field erected tanks must have spill containment and overfill prevention systems with automatic shut off, high level alarm or other EPD or FDEP approved method as required.
- Field erected ASTs containing pollutants must be designed in accordance with API Standard 620; API Standard 650; API Specification 12B or API Specification 12D or other reference standards as prescribed by the code.
- Steel tanks in contact with soil shall have cathodic protection in accordance with API RP 651 and NACE RP-01193-93 and other reference standards as prescribed by the code.

Contact

For further information, contact John Sainval at (954) 519-1229 (jsainval@broward.org) or Valerie Phipps at (954) 519-1203 (vphipps@broward.org) or Brenda Rivera at (954) 519-1432 (brivera@broward.org).

Reference Standard

References to documents listed in (a) through (o) below are made throughout both EPD and FDEP tank rules. Each document or part thereof is adopted and incorporated as a standard only to the extent that it is specifically referenced in these rules. All standards are available for review at Government Center West, 1 N University Drive, Plantation, Florida.

(a) ACI International:

1. ACI 224R-01, "Control of Cracking in Concrete Structures," 2001 Edition; (Reapproved 2008); and
2. ACI 350R-04, "Design Considerations for Environmental Engineering Concrete Structures," 2004 Edition.

(b) American Petroleum Institute Standards:

1. API Specification 12P, "Specification for Fiberglass Reinforced Plastic Tanks," 4th Edition, February 2016;
2. API Standard 570, "Piping Inspection Code: In-Service Inspection, Rating Repair, Alteration of Piping Systems," 4th Edition, February 2016; Including Addendum 1 (2017), Addendum 2 (2018), and Errata 1 (2018),
3. API Standard 650, "Welded Tanks for Oil Storage," 13th Edition, March 2020, Including Errata 1 (2021)
4. API Recommended Practice 651, "Cathodic Protection of Aboveground Petroleum Storage Tanks," 4th Edition, September 2014;
5. API Standard 653, "Tank Inspection, Repair, Alteration and Reconstruction," November 2014, including Addendum 1 (2018), Addendum 2 (2020), and Errata 1 (2020),
6. API 1104, "Welding of Pipelines and Related Facilities," 22nd Edition, July 2021;
7. API Recommended Practice 1110, "Recommended Practice for the Pressure Testing of Steel Pipelines for the Transportation of Gas, Petroleum Gas, Hazardous Liquids, Highly Volatile Liquids, or Carbon Dioxide," February 2013;
8. API Recommended Practice 1604, "Closure of Underground Petroleum Storage Tanks," 4th Edition, February 2021;
9. API Recommended Practice 1615, "Installation of Underground Petroleum Storage Systems," 6th Edition, April 2011;
10. API Recommended Practice 1632, "Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems," May 1996;
11. API Recommended Practice 1637, "Using the API Color-Symbol System to Mark Equipment and Vehicles for Product Identification at Service Stations and Distribution Terminals," 4th Edition, April 2020; and
12. API Recommended Practice 2350, "Overfill Prevention for Storage Tanks in Petroleum Facilities," 5th Edition, September 2020, Including Errata 1, April 2021

(c) ASME International:

1. B31.4-2019, "Pipeline Transportation Systems for Liquids and Slurries," 2019 Edition.

(d) American Society for Testing and Materials:

(e) Broward County Environmental Protection Department:

1. Article X, Storage Tanks, Broward County Code

(f) Broward County Local Amendments to the Florida Fire Prevention Code

(g) Florida Department of Environmental Protection:

1. Chapter 62-761, Underground Storage Tank, F.A.C.
2. Chapter 62-762, Aboveground Storage Tank, F.A.C
3. Storage Tank System Closure Assessment Requirements," July 2019;

(h) NACE International:

1. NACE Standard SP0169-13, "Control of External Corrosion on Underground or Submerged Metallic Piping Systems," 2013 Edition;
2. NACE Standard SP0285-21, "Corrosion Control of Underground Storage Tank Systems by Cathodic Protection," 2021 Edition;
3. NACE Standard SP0892-07, "Coatings and Linings over Concrete for Chemical Immersion and Containment Service," 2007 Edition; and
4. NACE Standard SP0193-16, "External Cathodic Protection of On-Grade Carbon Steel Storage Tank Bottoms," 2016 Edition.

(i) National Fire Protection Association:

1. NFPA 30, "Flammable and Combustible Liquids Code," 2021 Edition;
2. NFPA 30A, "Automotive and Marine Service Station Code," 2021 Edition;
3. NFPA 329, "Handling Underground Releases of Flammable and Combustible Liquids," Chapters 3, 4, and 5, 2020 Edition;
4. NFPA 68, "Standard on Explosion Protection by Deflagration Venting," 2018 Edition;
5. NFPA 69, "Standard on Explosion Prevention Systems," 2019 Edition; and
6. NFPA 220, "Standard on Types of Building Construction, " Chapter 3, 2021 Edition.

(j) National Leak Prevention Association:

1. NLPA Standard 631, "Entry, Cleaning, Interior Inspection, Repair and Lining of Underground Storage Tanks," Chapter B, 1991.

(k) Petroleum Equipment Institute:

1. PEI/RP100-20, "Recommended Practices for Installation of Underground Liquid Storage Systems," 2020 Edition; and
2. PEI/RP200-19, "Recommended Practices for Installation of Aboveground Storage Systems for Motor Vehicle Fueling," 2019 Edition.
3. PEI/RP1200-19 "Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities" 2019 Edition; and
4. PEI/RP1400-21 "Recommended Practices for the Design and Installation of Fueling Systems for Emergency Generators, Stationary Diesel Engines and Oil Burner Systems" 2021 Edition

(l) Society for Protective Coatings:

1. SSPC-TU 2/NACE 6G197, Publication No. 97-04/Item No. 24193 "Design, Installation, and Maintenance of Coating Systems for Concrete Used in Secondary Containment," February 1997.

(m) Steel Tank Institute:

1. STI-P3® "Specification and Manual for External Corrosion Protection of Underground Steel Storage Tanks #STI-P3®," May 2018;
2. STI R892-06, "Recommended Practice for Corrosion Protection of Underground Piping Networks Associated with Liquid Storage and Dispensing Systems," January 2006;
3. STI ACT-100®, F894, "Specification for External Corrosion Protection of FRP Composite Steel Underground Storage Tanks," May 2018;
4. STI R051-17 "Cathodic Protection Testing Procedures," April 2017
5. STI R972 "Recommended Practice for the Addition of Supplemental Anodes," December 2010;
6. STI F921®, "Standard for Aboveground Tanks with Integral Secondary Containment," June 2016.
7. STI F941, "Fireguard: Specification for Fireguard Protected Aboveground Storage Tanks," June 206
8. STI F001, "Steel Tank Institute Standard for Fire Tested Tanks" April 2017,
9. STI F011, "Standard for Aboveground Tanks Used as a Generator Base Tank," November 2021
10. STI SP001, "Standard for the Inspection of Aboveground Storage Tanks," 6th Edition, January 2018; and
11. STI SP031, "Standard for Repair of Shop Fabricated Aboveground Tanks," 5th Edition, January 2018

(n) Underwriters Laboratories Standards:

1. UL 58, "Steel Underground Tanks for Flammable and Combustible Liquids," July 1998; Revised January 2018, 10th Edition
2. UL 142, "Steel Aboveground Tanks for Flammable and Combustible Liquids," 10th Edition, January 2021;
3. UL 971, "Non-Metallic Underground Piping for Flammable Liquids," May 2021;
4. UL/ULC 1316, "Standard for Fibre Reinforced Underground Tanks for Flammable and Combustible Liquids," January 1994; revised November 2018;
5. UL 1746, "External Corrosion Protection Systems for Steel Underground Storage Tanks," January 2007, Revised December 2014;

6. UL 1856, "Outline of Investigation for Underground Fuel Tank Internal Retrofit Systems," June 2020; and
7. UL 2085, "Protected Aboveground Tanks for Flammable and Combustible Liquids," December 1997, Revised September 2010, 2nd Edition.

(o) Government Printing Office, Code of Federal Regulations:

1. Title 40, Part 280, Subpart H, July 2015; and
2. Title 40, Part 302.4, July 1989;

Wellfields

As the population of Broward County continues to grow, so does the use of hazardous chemicals and the potential for contamination of our drinking water supplies. Toxic chemicals from chemical spills can persist for a long time underground and they can travel great distances in the subsurface environment to our public potable water wells.

Our main water supplies are dependent on a rain-driven system which recharges the highly transmissive Biscayne Aquifer providing water to supply wells found in Broward County wellfields. The treated water is distributed by public and private utilities to Broward County residents, visitors, and businesses. We recognize that every Broward County resident has a right to drink clean water and that Broward County's potable water source is both a sustainable natural resource and economic asset.

Broward County Wellfield Protection Program

This program establishes protected areas around public and private wellfields. The program's responsibility is to regulate the storage, handling, use, and production of regulated substances at facilities within the wellfield protected areas. The program's mission is to prevent hazardous chemicals from being released into the environment where the chemicals can migrate into our potable water supply.

The Wellfield Protection Program has existed since 1984 and is currently in the Environmental Permitting Division (EPD).

The program's goals are to:

- Identify, conserve and protect all recharge areas in wellfield zones 1 and 2 from the introduction and misuse of regulated substances. The team's primary focus is on pollution prevention and control and maintaining and enforcing a licensing, inspecting and monitoring program to abate potential threats from regulated substances to the ground water.
- Protect the quality of Broward County's potable water supply and minimize the presence of all regulated substances in wellfield protection zones by continuing to implement and improve [Chapter 27, Article XIII, Wellfield Protection, Broward County Code of Ordinances](#) which regulates the storage, handling, usage, disposal or production of regulated substances within designated zones of influence.
- Conduct inspections of facilities in wellfield protection areas to locate possible contamination sources and ensure abatement of identified sources.
- Foster a solid working relationship with the public utilities and the regulated community.
- Implement the division's enforcement strategy program, geared toward the early identification of environmental problems/issues and to focus on inspecting those facilities that pose the most significant potential to cause environmental harm due to noncompliance or mismanagement.
- Broward County has one of the safest drinking water supplies in the world. We are fortunate that we have been able to maintain a safe water supply in a county with numerous facilities that store, handle, use and manufacture hazardous materials. As the use of hazardous

chemicals in Broward County continues to grow, the potential for contamination of our water supplies will increase. Although our water supplies are safe now, we cannot afford to lower our commitment to protecting this vital resource.

- The Wellfield Protection Program performs an integral part in the Environmental Permitting Division's mission. This includes an extensive inspection, pollution prevention promotion and monitoring program at each hazardous material facility and a monitoring program of the potable water quality. This is being done to ensure that chemicals at hazardous materials facilities are not impacting the public water supply. This is done because the most cost-effective and time-effective approach to protecting our wellfields is to prevent contamination of the water supply before it occurs.
- All existing anthropogenic and natural sources are inventoried within the protected areas. Contaminant sources that can threaten the drinking water supply are numerous and may include non-point source pesticide and herbicide impacts, point source impacts such as underground storage tanks, domestic septic tanks and abandoned and improperly constructed wells. The sources are evaluated based on the potential to cause human health and environmental risks. Current inventories of facilities using, storing or producing hazardous materials are maintained and these facilities are routinely inspected to ensure compliance with their Hazardous Material Facility Management Licenses. Pollution prevention practices are promoted during the inspections.
- Wellfield protection requires the participation of all levels of government. The team continues to improve its wellfield protection efforts by defining the roles and duties of the participating entities at all levels of government, delineating wellhead protection areas, identifying and monitoring all sources of contamination in the protected areas; and ensuring the program's success by encouraging public participation and promoting public education.

Federal & State Wellfield Protection Programs

Both the Federal Government and the State of Florida have programs directed toward protecting sources of public drinking water.

The Federal program is administered by the Environmental Protection Agency (EPA) from Washington, D.C. and their Region IV offices in Atlanta, Georgia. The web site for the EPA is [EPA.gov](https://www.epa.gov). Another web site for drinking water information is [EPA.gov/ground-water-and-drinking-water](https://www.epa.gov/ground-water-and-drinking-water).

The State of Florida program is administered by the Florida Department of Environmental Protection (FDEP) from Tallahassee, Florida and West Palm Beach, Florida. For more information on this FDEP program, visit: <https://floridadep.gov/water/certification-restoration/content/wellhead-protection>.

Hazardous Material Management Facility License

If your business is located within Zone 1 or Zone 2, you may need to [apply for a Hazardous Material Management Facility License](#). Before applying, examine the product labels and Material Safety Data Sheets for each chemical at your business. Compare the chemicals to this [list of regulated substances](#). The license requires recordkeeping, notifications, training, ground water and raw water

monitoring, a [spill prevention and control plan](#) and is subject to [criteria for monitoring well installation and sampling](#).

Several of the chemicals on the list of regulated substances cover a broad range of chemicals such as “Petroleum products which are hazardous or toxic.” A substantial number of chemicals fall within that category. If you have additional questions or need further information, call 954-519-1483.

If your business is located within Zone 3, you may need to [apply for a Hazardous Material Management Facility License](#). You may need the license if you have had a discharge of chemicals that contain regulated substances at your facility.

If your business is located in Zone 1, Zone 2 or Zone 3 and you do not store, handle, use or produce regulated substances but you do store 25 or more gallons of hazardous materials, you may be required to [apply for a Hazardous Material Management Facility License](#).

To obtain a license application you can download a copy of the application from this website, or you can call our offices at 954-519-1483 for an application.

Help Protect Our Public Wellfields

Chemicals improperly used on your property could pose a risk to the public drinking water supply.

There are several ways that you can protect the public wellfields.

Do not spill chemicals onto the ground, into the surface waters or into storm drains.

Follow the manufacturer's instructions when using chemicals. Fertilizers, pesticides and herbicides should be applied no more than the concentration and frequency recommended by the manufacturer.

Dispose of household hazardous waste at hazardous waste collection centers. The Office of Solid Waste and Recycling (954-765-4999) has information about hazardous waste collection programs.

Report the improper use, storage and handling of hazardous chemicals to the department's hotline at 954-519-1499.

Some substances that contain hazardous chemicals include pesticides, herbicides, fertilizers, automotive fluids and paints. Also, please notify any pest control or lawn services that you employ to take special care when they apply chemicals to your property.

License Conditions

[License Conditions](#)

The Hazardous Material Facility Management License will contain general conditions and wellfield specific conditions.

The general conditions are found on all Hazardous Material Facility Management Licenses. The wellfield specific conditions are prepared specific to the facility's inventory, location within the wellfield protected area and type of business. The license will contain a minimum of eight wellfield conditions. Licenses for water treatment plants, multi-tenant facilities or facilities that have obtained a variance

will have additional conditions. This summary of wellfield general and specific conditions provides a general description of the typical license conditions.

Map of Wellfield Zones

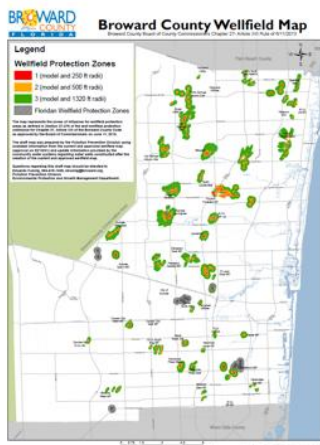
In order to determine whether your business is in a wellfield zone of influence you need to examine the wellfield protection map to see if your business is in Zone 1 (area inside the red line) or Zone 2 (area between the red and yellow lines) or Zone 3 (area between the yellow and green lines). An area outside of the green line is outside the wellfield zones of influence. The map on this web site can be magnified for more detail. If you are unable to make this determination, call 954-519-1406 for further information.

Official Map of Wellfield Zones

The Broward County Commission has approved a revision to the wellfield protection ordinance (adopted, June 2013), [Chapter 27, Article XIII, Wellfield Protection, Broward County Code of Ordinances](#). The ordinance defines the wellfield zones of influence as follows:

- **Zone 1** means the wellfield protection area shown on the zones of influence map approved on February 16, 2001, for water wells included on that map, and within 250 feet from an existing water well for wells not included on that map.
- **Zone 2** means the wellfield protection area shown on the zones of influence map approved on February 16, 2001, for water wells included on that map, and situated between the outer boundary of Zone 1 and 500 feet from an existing water well for wells not included on that map.
- **Zone 3** means the wellfield protection area shown on the zones of influence map approved on February 16, 2001, for water wells included on that map, and situated between the outer boundary of Zone 2 and 1320 feet from an existing water well for wells not included on that map.

[Click for Wellfield PDF Map](#)



[Click to access Interactive Wellfield Map](#)

