



RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

October 29, 2013

US LIQUIDS OF LA, LP.
10001 WOODLOCH FOREST DR STE 400
HOUSTON, TX 77380

Re: Permit to Operate a Commercial Stationary Treatment Facility and associated pits
Wishbone Facility
Martin County, Texas
Permit Nos. STF-055, P011891, P011892, P011893, P011894, P011895, P011896, P011897, P011898, P011899, P011900, P011901, and P011902

Your permit to operate a Commercial Stationary Treatment Facility and associated pits under Statewide Rule 8 is enclosed. The permit is effective on October 29, 2013, and expires on October 28, 2018.

Please be advised that Statewide Rule 78 requires financial security be filed in the amount equal to or greater than the maximum amount necessary to close the facility at any time during the permit term. No waste may be received at the facility until financial security in the amount of \$4,468,380 is provided to and approved by the Commission. In order to allow sufficient processing time, financial security should be submitted a minimum of 30 days prior to the date on which you wish to begin receiving waste. Should any changes be made to the facility, an updated closure cost estimate must be submitted to Technical Permitting in Austin, and any additional financial security in the approved amount must be filed with the Commission.

You may contact me at (512) 463-6559 should you have any questions.

Sincerely yours,

A handwritten signature in black ink, appearing to read "David Wuerch".

David Wuerch P.G.
Environmental Permits & Support
Technical Permitting

Enclosure

cc: RRC – Midland/08



RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

Permit No. STF-055

US LIQUIDS OF LA, LP
10001 WOODLOCH FOREST DR STE 400
THE WOODLANDS, TX 77380

Based on information contained in your application received October 5, 2012 and subsequent information received to date, you are hereby authorized to receive, store, handle, treat and dispose of certain oil and gas wastes as specified below at the following facility:

Wishbone Facility, Commercial Oil & Gas Waste Separation STF Disposal Facility
Including Pit Nos. 011891, 011892, 011893, 011894, 011895, 011896, 011897, 011898,
011899, 011900, 011901, and 011902
A.B. Miller A-779 and T & P RR CO. A-63 Surveys
Martin County, Texas
RRC District 08

Incoming waste will be offloaded at one of several areas of the facility depending on the liquid content and composition of the waste. The Solids and Liquid Waste Receiving (SLWR) Area will be divided into liquids and solids offloading areas. The liquids area will be used to offload vacuum trucks while the solids area is designed for end dump and roll-off box offloading. Wastes received in both areas will be processed by using a series of mechanical operations to separate liquids from solids. Liquids separated and collected will be pumped to the Collection Pits for evaporation of water or to the injection well's tanks at their tank battery for disposal of fluids by injection. Stabilized solids will be transferred to one of the Disposal Cells for disposal.

Authority is granted to receive, store, handle, treat and dispose of oil and gas wastes in accordance with Statewide Rule 8 and subject to the following minimum conditions:

I. GENERAL PERMIT CONDITIONS

- A. This permit is effective **October 29, 2013**, and expires **October 28, 2018**.
- B. This permit may be considered for administrative renewal upon request and subsequent review by the Commission.
- C. This permit is **nontransferable** without the consent of the Commission.
- D. Technical Permitting in Austin and the Midland District Office must be notified in writing when construction of the facility is initiated.
- E. No waste may be received at the referenced facility until a site-specific Spill Prevention, Control and Countermeasure (SPCC) Plan is provided to and approved by

Technical Permitting. A copy of the approved SPCC Plan must be maintained on-site and made available for review and inspection.

- F. No waste may be received at the referenced facility until financial security in the amount of \$4,468,380 for the Wishbone Facility including associated Pit Permit Nos. 011891, 011892, 011893, 011894, 011895, 011896, 011897, 011898, 011899, 011900, 011901, and 011902 is provided to and approved by the Commission.
- G. The permittee may not begin receiving, storing, handling, or treating oil and gas waste at the facility until any necessary air permits or exemptions are obtained from the Texas Commission on Environmental Quality.
- H. Upon final completion of construction of each operational area (i.e., Solid and Liquid Waste Receiving Area, Truck Washout Area, Collection Pit, and Disposal Cell), Technical Permitting must be notified in writing and the Midland District Office must be notified by phone. The permittee may not begin receiving, storing, handling, or treating oil and gas waste at any particular operational area until the District Office has performed its inspection of the operational area and has verified that the facility is constructed in accordance with the application and this permit.
- I. The permittee shall make all records available for review and/or copying during normal business hours upon request of Commission personnel.
- J. All laboratory analyses required to be performed in accordance with this permit must be performed using appropriate EPA or Standard Methods by an independent laboratory neither owned nor operated by the permittee.
- K. Material Safety Data Sheets must be submitted to Technical Permitting in Austin for any chemical proposed to be used in the treatment of waste at the facility. Use of the chemical is contingent upon Commission approval.
- L. Failure to comply with any provision of this permit or any determination by the Commission that this permit is being abused will be cause for enforcement action including, but not limiting to, modification, suspension, or termination of this permit.
- M. The permittee must submit a Quarterly Report containing the applicable information required in Conditions III.B., IV.H., V.H., VI.D., VIII.S., and X.E. of this permit. The first Quarterly Report must cover the period beginning on the effective date of the permit and ending **December 31, 2013**. The reporting periods must thenceforth be January 1 through March 31, April 1 through June 30, July 1 through September 30, and October 1 through December 31 of each year.

The Quarterly Reports must be submitted to Technical Permitting in Austin and the Midland District Office no later than the 30st day of the month following each reporting period, or each January 30, April 30, July 30, and October 30, respectively.

- N. Unless otherwise dictated by this permit, construction and operation of the facility must be represented in the original application and subsequent information received to date by Technical Permitting in Austin.

- O. Any deviation from the permit must be approved by amendment from Technical Permitting in Austin before implementation.
- P. In accordance with Statewide Rule 78, financial security must be provided to the Commission in the amount necessary to close the facility. If any changes that would increase the cost to close the facility are planned, an updated closure cost estimate and the associated financial security must be submitted to and approved by the Commission prior to implementing the changes.

II. INCOMING WASTES

A. AUTHORIZED WASTES

1. Only non-hazardous wastes subject to the jurisdiction of the Railroad Commission of Texas may be received or processed at this facility. This permit authorizes the receipt and disposal of only the following oil and gas wastes:
 - a. Water based drilling fluids and associated cuttings;
 - b. Oil based drilling fluids and associated cuttings;
 - c. Iron sulfide, which has been fully oxidized;
 - d. Contaminated soils from crude oil and condensate spills, pipeline and saltwater spills;
 - e. Absorbent pads from crude oil spills;
 - f. Formation sands and other solids from saltwater storage tanks or vessels and saltwater pits;
 - g. Solid waste from gas dehydration and sweetening (spent filters and filter media, molecular sieves, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber sludge);
 - h. Production tank bottoms and basic sediment which do not exceed 7% in oil content as determined by a Standard API Shakeout;
 - i. Waste solids resulting from crude oil reclamation;
 - j. Liners from reserve and washout pits;
 - k. Inert wastes as defined by Statewide Rule 8 such as uncontaminated concrete or wood;
 - l. Produced water having solid content greater than 5%;
 - m. Spent well completion, treatment and stimulation fluids;
 - n. Cooling tower blowdown.
2. No free oil may be disposed of at the facility.

3. No iron sulfide waste may be received or disposed of at the facility unless the waste has been fully oxidized.
4. No oil and gas NORM (Naturally Occurring Radioactive Material) waste defined in 16 TAC §4.603 or waste from a facility that is licensed by the Texas State Health Services to process or treat oil and gas NORM waste may be received at this facility.
5. No waste may be received or disposed of at the facility if it is not a waste under the jurisdiction of the Railroad Commission of Texas. No hazardous waste as defined by the U.S. Environmental Protection Agency in 40 CFR Part 261 or industrial waste may be received or disposed of at the facility.

B. TESTING REQUIREMENTS FOR INCOMING WASTES

1. For the purposes of this permit, a representative sample of incoming waste is defined as a composite sample composed of one grab sample from each 50 cubic yards of waste material from each job (e.g., from each well, pit, spill location.)
2. Prior to receipt at the site, representative samples of waste from commercial oil and gas facilities and reclamation plants must be analyzed and may not exceed the limit for the following parameter:

<u>PARAMETER</u>	<u>LIMITATION</u>
TOX (Total Organic Halides)	100 mg/kg

Special authorization for disposal of waste with a TOX > 100 mg/kg may be considered. Authority must be obtained from Technical Permitting in Austin prior to receipt of waste.

3. Prior to receipt at the site, representative samples of incoming RCRA non-exempt waste must be analyzed for the following parameters and may not exceed the following levels:

<u>PARAMETER</u>	<u>LIMITATION</u>
Corrosivity	No materials exhibiting the characteristic of corrosivity as defined by RCRA
Ignitability	No materials exhibiting the characteristic of ignitability as defined by RCRA
Reactivity	No materials exhibiting the characteristic of reactivity as defined by RCRA
Toxicity	No material exhibiting the characteristic of toxicity as defined by RCRA

<u>PARAMETER</u>	<u>LIMITATION</u>
Metals	TCLP
Arsenic	< 5.0 mg/l

Barium	< 100.0 mg/l
Cadmium	< 1.0 mg/l
Chromium	< 5.0 mg/l
Lead	< 5.0 mg/l
Mercury	< 0.2 mg/l
Selenium	< 1.0 mg/l
Silver	< 5.0 mg/l

<u>PARAMETER</u>	<u>LIMITATION</u>
Benzene	< 0.5 mg/l

4. Each load of incoming waste, other than water base drilling fluid and the associated cuttings, or oil base drilling fluid and the associated cuttings, must be scanned for the presence of naturally occurring radioactive material (NORM) using a scintillation meter with a sodium iodide detector. Any load with a maximum reading of 50 microroentgens per hour or more may not be unloaded or processed at the facility unless further analysis of the waste demonstrates that the waste does not exceed 30 picocuries per gram Radium-226 combined with Radium-228 or 150 picocuries per gram of any other radionuclide.

III. RECORDKEEPING REQUIREMENTS

- A. The permittee shall maintain the following records on each load of waste received at the facility for a period of three (3) years from the date of receipt:
1. Description of the site where the waste was generated, including:
 - a. Generator name;
 - b. Lease name and number or gas ID or API Well Number;
 - c. County;
 2. Name of transporter;
 3. Amount of waste material (specify units); and
 4. A description of the type of waste material, including:
 - a. Fluid-to-Solid ratio; and
 - b. Detailed description of the type of waste including any analysis required by II.B.2, II.B.3 and II.B.4 above.
- B. A report of all records required by Condition III.A. above, as well as a summary of waste receipts including the volume of each type of material received on a monthly basis shall be submitted to Technical Permitting in Austin and the Midland District Office as part of the Quarterly Report required in Condition I.M. of this permit.

IV. GENERAL SITE CONSTRUCTION AND MAINTENANCE REQUIREMENTS

- A. The general layout and arrangement of the facility shall be consistent with the site layout received October 1, 2013, which is attached to and incorporated as part of this permit as **Permit Appendix A**.
- B. The facility will consist of a Solid and Liquid Waste Receiving (SLWR) Area, a Truck Washout Area, two Collecting Pits, and ten Disposal Cells.
- C. A sign shall be posted at each entrance to the facility, which shall show the permit number in letters and numerals at least one-inch in height.
- D. A perimeter berm must be constructed to surround the entire facility and shall be designed to prevent storm water run-on and prevent storm water runoff from the site. The perimeter berm must be constructed to a minimum height of at least 2 feet, a minimum 1 foot wide at the top and a minimum of 7 feet wide at the base. The perimeter berm must be built with a minimum 3:1 slope (width:height).
- E. Non-contact storm water contained within the perimeter berm must be controlled and diverted around the various waste receiving, collecting, and disposal areas and directed to the Stormwater Retention Pond.
- F. All above ground tanks must be diked. Dikes must be constructed and maintained to contain the largest tank's maximum capacity, plus 12 inches of freeboard.
- G. All tanks must be maintained in a leak-free condition. If inspection of a tank reveals deterioration and/or leaks, the tank must be emptied and repaired before resuming use.
- H. The permittee must maintain a record of when the tanks are inspected and the results of each inspection. A copy of the records shall be submitted to Technical Permitting in Austin as part of the Quarterly Report required in Condition I.M. of the permit.
- I. The perimeter of the property must be enclosed with a fence suitable to keep out unauthorized access. The site is to be attended continuously or secured when unattended. Access gates shall be closed and locked when not attended by facility personnel.
- J. Any spill of waste, or any other material shall be promptly cleaned up and disposed of in an authorized manner.

V. SOLID AND LIQUID WASTE RECEIVING (SLWR) AREA CONSTRUCTION AND OPERATION

- A. The general layout and arrangement of the SLWR Area shall be consistent with the detailed layout of the SLWR Area received October 1, 2013, which is attached to and incorporated as part of this permit as **Permit Appendix B**. The Receiving Area shall consist of three offloading bays for vacuum trucks, four offloading truck bays for solids, and the following equipment:
 - One 320-bbl vacuum truck disposal trench;
 - Two 364-bbl liquid receiving tanks equipped with agitators;

- One 150-bbl dryer shaker tank;
 - One 446-bbl mud cleaning shaker tank;
 - Six mud cleaning shakers;
 - Six dryer shakers;
 - Three centrifuges;
 - Two 364-bbl solids receiving tanks equipped with agitators.
- B. Concrete slabs for the offloading bays must be constructed of reinforced concrete at least 8 inches thick. These slabs will be raised 18 inches above grade to prevent run-on of stormwater.
- C. The slabs for the offloading bays must be inspected monthly for deterioration and/or cracks.
- D. The walls and floor of the three feet wide by three feet deep grated trench running the length of the liquids receiving bays must be constructed of reinforced concrete at least 8 inches thick.
- E. Spillage of wastes into the trench during unloading must be removed within 24 hours and disposed of in an authorized manner.
- F. The walls and floor of the below grade vault containing the two receiving tanks for solids offloading must be constructed of reinforced concrete at least 8 inches thick.
- G. The steel receiving tanks within the secondary containment vault must be inspected monthly for leaks. If a leak is found, the Midland District Office must be notified within 48 hours and the use of the tank must cease until repaired.
- H. The bottom and walls of the secondary containment vault must be inspected monthly to assess its integrity. If a problem is found, the Midland District Office must be notified within 48 hours and use of the vault must cease until repaired. The permittee must maintain a record of when the vault is inspected and the results of each inspection. This record shall be submitted to Technical Permitting in Austin as part of the Quarterly Report required in Condition I.M. of this permit.
- I. Solids and liquids which collect in the vault must be removed within 24 hours and disposed of in an authorized manner.
- J. An earthen berm must be constructed to a minimum height of two feet surrounding the SLWR area to prevent the run-on and runoff of stormwater. Slope of berm wall may not exceed 1:3 (height:width).

VI. TRUCK WASHOUT AREA CONSTRUCTION AND OPERATION

- A. The general layout and arrangement of the Truck Washout Area shall be consistent with the layout of the Truck Washout Area received October 1, 2013, which is attached to and incorporated as part of this permit as **Permit Appendix C**. The Truck Washout Area shall consist of six truck wash bays and the following equipment:
- Two 100-bbl wash waste containers;
 - Two 500-bbl settling tanks;

- One 750-bbl gun barrel;
 - Two 250-bbl water storage tanks;
 - One 250-bbl oil storage tank.
- B. All slabs and retaining walls in the Truck Washout Area must be constructed of reinforced concrete at least 8 inches thick.
- C. Solids and liquids which collect in the drainage trough must be removed within 24 hours and disposed of in an authorized manner.
- D. The bottom and walls of the secondary containment vault containing the two wash waste containers must be inspected monthly to assess its integrity. If a problem is found, the Midland District Office must be notified within 48 hours and use of the vault must cease until repaired. The permittee must maintain a record of when the vault is inspected and the results of each inspection. This record shall be submitted to Technical Permitting in Austin as part of the Quarterly Report required in Condition I.M. of this permit.

VII. COLLECTION PIT CONSTRUCTION AND OPERATION

(Collection Pit P-1: P011901, Collection Pit P-2: P011902)

- A. Technical Permitting in Austin and the Midland District Office must be notified in accordance with Permit Condition I.H. upon final completion of construction of the Collection Pits. The permittee may not begin using the pits until the District Office has completed an inspection of the pits and provided verification that the pits are constructed in accordance with the application and permit.
- B. A sign shall be posted identifying the Collection Pits using letters at least one-inch in height.
- C. A berm must be constructed around each Collection Pit with a minimum width of 22 feet at the top. Slope of berm wall may not exceed 1:3 (height:width).
- D. A liner anchor trench must be used to key the synthetic liner to the berm.
- E. At least 2 feet of freeboard must be maintained between the fluid level of the pit and the top of the berm.
- F. Unless otherwise required by the conditions of this permit, construction, use, maintenance, and closure of the cell shall be in accordance with the information represented on the permit application and the attachments thereto.
- G. The Collection Pits must be lined with a high-density polyethylene primary liner with a thickness of at least 60 mils and a high-density polyethylene secondary liner with a thickness of at least 40 mils.
- H. The Collection Pits must be equipped with a leak detection system, which will consist of a geonet (on the floor) and geocomposite (on the side slopes) placed between the primary and secondary liners.

- I. The Collection Pits must be constructed, and the liner/leak detection system must be installed, in accordance with sound engineering practices and liner/leak detection system manufacturer's specifications.
- J. The Collection Pits must be constructed in accordance with the liner installation methods included in the application and as shown in Sheets 2.22 through 2.26 of the permit application engineer's drawings received October 1, 2013.
- K. The leak detection system must be monitored at least weekly and the permittee must maintain a record of when the liner and the leak detection system are inspected and the results of each inspection. This record shall include date of fluid level measuring, fluid level, volume of fluid removed and electric conductivity and chloride concentration of the fluids removed. This record must be maintained by the permittee for the life of the pit, and upon request of the Commission, the record shall be filed with the Commission.
- L. If the leak detection system indicates liner failure, the Midland District Office must be notified of that fact within 24 hours of detection of liner failure. Liner system failure is defined as any of the following:
 - 1. A leak rate from the primary liner greater than 7,590 gallons per day for Collection Pit P-1.
 - 2. A leak rate from the primary liner greater than 7,650 gallons per day for Collection Pit P-2.
 - 3. Any failure in the leak detection and return system or any component thereof.
 - 4. Any detected damage to or leakage from the secondary liner.
- M. If a liner system failure is detected, the affected component must be inspected for deterioration and leaks within 7 days of detection of liner failure. After inspection, the affected component must be replaced or repaired before use of the pit is resumed.
- N. No free oil may be allowed to accumulate on top of the waste stored in the pits. Any free oil on top of the waste must be skimmed off.
- O. Permit does not authorize discharge of waste from the pits to the surface or surface water. Waste may only be transferred to the injection well.
- P. Unless otherwise required by the conditions of this permit, construction, use, maintenance, and closure of the pits shall be in accordance with the information represented on the permit application and the attachments thereto.
- Q. Upon final cessation of the use of the Collection Pits, the pits must be closed in accordance with Condition IX.E. of this permit. Any request to modify the closure plan must be filed with Technical Permitting. Upon final closure, Technical Permitting in Austin and the Midland District Office shall be notified in writing.

- R. Technical Permitting in Austin and the Midland District Office must be notified in writing at least 45 days prior to commencement of closure activities.

VIII. DISPOSAL CELL CONSTRUCTION AND OPERATION

- A. Technical Permitting in Austin and the Midland District Office must be notified in accordance with Permit Condition I.H. upon final completion of construction of a disposal cell. The permittee may not begin using the cell until the District Office has completed an inspection of the cell and provided verification that the cell is constructed in accordance with the application and permit.
- B. A sign shall be posted identifying each Disposal Cell using letters and numerals at least one-inch in height.
- C. The capacity of the disposal cells may not exceed the following:
- Disposal Cell No. D-1 (P011891) = 576,316 cubic yards
 - Disposal Cell No. D-2 (P011892) = 679,904 cubic yards
 - Disposal Cell No. D-3 (P011893) = 679,276 cubic yards
 - Disposal Cell No. D-4 (P011894) = 677,831 cubic yards
 - Disposal Cell No. D-5 (P011895) = 593,703 cubic yards
 - Disposal Cell No. D-6 (P011896) = 344,784 cubic yards
 - Disposal Cell No. D-7 (P011897) = 388,379 cubic yards
 - Disposal Cell No. D-8 (P011898) = 390,789 cubic yards
 - Disposal Cell No. D-9 (P011899) = 390,059 cubic yards
 - Disposal Cell No. D-10 (P011900) = 334,775 cubic yards
- D. This permit does not authorize the discharge of any oil and gas waste from a disposal cell.
- E. Unless otherwise required by the conditions of this permit, construction, use, maintenance, and closure of the cell shall be in accordance with the information represented on the permit application and the attachments thereto.
- F. Earthen berms must be constructed to a minimum height of three feet surrounding each disposal cell to prevent storm water run-on and runoff. Slope of berm wall may not exceed 1:3 (height:width).
- G. A liner anchor trench must be using to key the synthetic liner to the berm.
- H. The floor of each Disposal Cell must have at least a 1% slope to allow fluids to drain to the sump located at the low end of the cell.
- I. Disposal Cells must be lined with a high-density polyethylene primary liner with a thickness of at least 60 mils and a high-density polyethylene secondary liner with a thickness of at least 60 mils.

- J. Disposal Cells must be equipped with a leak detection system, which will consist of a geonet (on the floor) and geocomposite (on the side slopes) placed between the primary and secondary liners.
- K. A geocomposite drainage layer must be installed on top of the primary liner on the floor of the disposal cells which will convey any leachate to the leachate sumps for removal.
- L. Leachate collected in the leachate collection sump must be removed through the leachate removal pipe and disposed of in an authorized manner.
- M. The Disposal Cells must be constructed, and the liner/leak detection system must be installed, in accordance with sound engineering practices and liner/leak detection system manufacturer's specifications.
- N. The Disposal Cells must be constructed in accordance with the liner installation methods included in the application and as shown in Sheets 2.1 through 2.21, and Sheet 2.26 of the permit application engineer's drawings received October 1, 2013.
- O. The leak detection system must be monitored at least weekly and the permittee must maintain a record of when the liner and the leak detection system are inspected and the results of each inspection. This record shall include date of fluid level measuring, fluid level, volume of fluid removed and electric conductivity and chloride concentration of the fluids removed. This record must be maintained by the permittee for the life of the cell, and upon request of the Commission, the record shall be filed with the Commission.
- P. If the leak detection system indicates a failure, the Midland District Office must be notified of that fact within 24 hours of detection of liner failure. Liner system failure is defined as any of the following:
 - 1. If a leak occurs at a rate greater than 858 gallons per day from the primary liner of any of the Disposal Cells Nos. D-1 through D-5.
 - 2. If a leak occurs at a rate greater than 509 gallons per day from the primary liner of any of the Disposal Cells Nos. D-6 through D-10.
 - 3. Any failure in the leak detection and return system or any component thereof.
 - 4. Any detected damage to or leakage from the secondary liner.
- Q. If liner system failure is detected, the affected component must be inspected for deterioration and leaks within 7 days of detection of liner failure. After inspection, the affected component must be replaced or repaired before use of the Disposal Cell is resumed.
- R. No free oil may be allowed to accumulate on top of the waste stored in the disposal cell. Any free oil on top of the waste must be skimmed off.
- S. All waste shall pass the Paint Filter Test (EPA Method 9095) prior to disposal in a disposal cell. Test results from each Paint Filter Test must be submitted to Technical

Permitting in Austin as part of the Quarterly Report required in Condition I.M. of this permit.

- T. No freestanding fluids may accumulate in a disposal cell. Any fluids must be removed within 72 hours of discovery and disposed of in an authorized manner.
- U. Upon final cessation of the use of a disposal cell, the cell must be closed in accordance with Condition IX.F. of this permit. Any request to modify the closure plan must be filed with Technical Permitting. Upon final closure, Technical Permitting in Austin and the District Office shall be notified in writing.
- V. Technical Permitting in Austin and the Midland District Office must be notified in writing at least 45 days prior to commencement of closure activities.

IX. CLOSURE OF THE SITE

- A. All waste must be processed through the facility or disposed of in an authorized manner.
- B. The facility shall be closed and graded as shown on Closure Plan View (Sheet 1) of the permit application engineer's drawings received October 18, 2013.
- C. Closure of the SLWR Area shall proceed as follows:
 - 1. The contents of all tanks, vessels, or other containers shall be disposed of in an authorized manner.
 - 2. All equipment shall be removed and salvaged, if possible, or disposed of in an authorized manner.
 - 3. All concrete pads and vaults shall be demolished and the rubble disposed of in an authorized manner.
 - 4. Affected soils underlying the concrete pads/vaults shall be removed and disposed of in an authorized manner.
 - 5. Four representative soil samples shall be obtained from the SLWR Area. The soil samples shall be analyzed for the constituents listed in Condition IX.G. of this permit and the constituent levels shall not be exceeded.
 - 6. A map showing the sampling locations and copies of the analysis required by Condition IX.G. shall be submitted to Technical Permitting in Austin. When acceptable constituent levels have been verified in writing by Technical Permitting, the SLWR Area must be backfilled with clean fill and restored to natural grade. Topsoil shall then be contoured and seeded with appropriate vegetation.
- D. Closure of the Truck Washout Area shall be as follows:
 - 1. The contents of all tanks, vessels, or other containers shall be disposed of in an authorized manner.

2. All equipment shall be removed and salvaged, if possible, or disposed of in an authorized manner.
3. All concrete pads shall be demolished and the rubble disposed of in an authorized manner.
4. Affected soils underlying the concrete pads shall be removed and disposed of in an authorized manner.
5. Two representative soil samples shall be obtained from the Truck Washout Area and be analyzed for the constituents listed in Condition IX.G. of this permit and the constituent levels shall not be exceeded.
6. A map showing the sample location and copies of the analysis required by Condition IX.G. shall be submitted to Technical Permitting in Austin. When acceptable constituent levels have been verified in writing by Technical Permitting, the Truck Washout Area must be backfilled with clean fill and restored to natural grade. Topsoil shall be contoured and seeded with appropriate vegetation.

E. Closure of the Collection Pits shall be as follows:

1. All waste must be removed from the Collection Pits and disposed of in an authorized manner.
2. The synthetic liner shall be removed and disposed of in an authorized manner.
3. Excavate at least a two feet thick layer of soil from beneath the pit liners and dispose of in an authorized manner.
4. After excavation, ten representative soil samples from each pit shall be obtained and be analyzed for the constituents listed in Condition IX.G. of this permit and the constituent levels shall not be exceeded.
5. A map showing the sample locations and copies of the analysis required by Condition IX.G. shall be submitted to Technical Permitting in Austin. When acceptable constituent levels have been verified in writing by Technical Permitting, the Collection Pits must be backfilled with clean fill and restored to natural grade. Topsoil shall be contoured and seeded with appropriate vegetation.

F. Closure of the Disposal Cells shall be as follows:

1. Once a disposal cell has achieved its capacity, the cell will be covered with a cap and closed in accordance with construction details shown in Sheets 2.29 through 2.31 of the permit application engineer's drawings received October 1, 2013. The cap will be seeded with appropriate vegetation.

- G. Soil samples shall be analyzed and the following constituent levels shall not be exceeded:

Constituent (units)	Closure Limit
pH (s.u.)	6.0 to 10.0
Electrical Conductivity (EC)	4.0
TPH (mass %)	<1
BTEX (mg/kg)	30.0
Metals (mg/kg):	
Arsenic	10.0
Barium	10000.0
Cadmium	10.0
Chromium	100.0
Lead	200.0
Mercury	10.0
Selenium	10.0
Silver	200.0

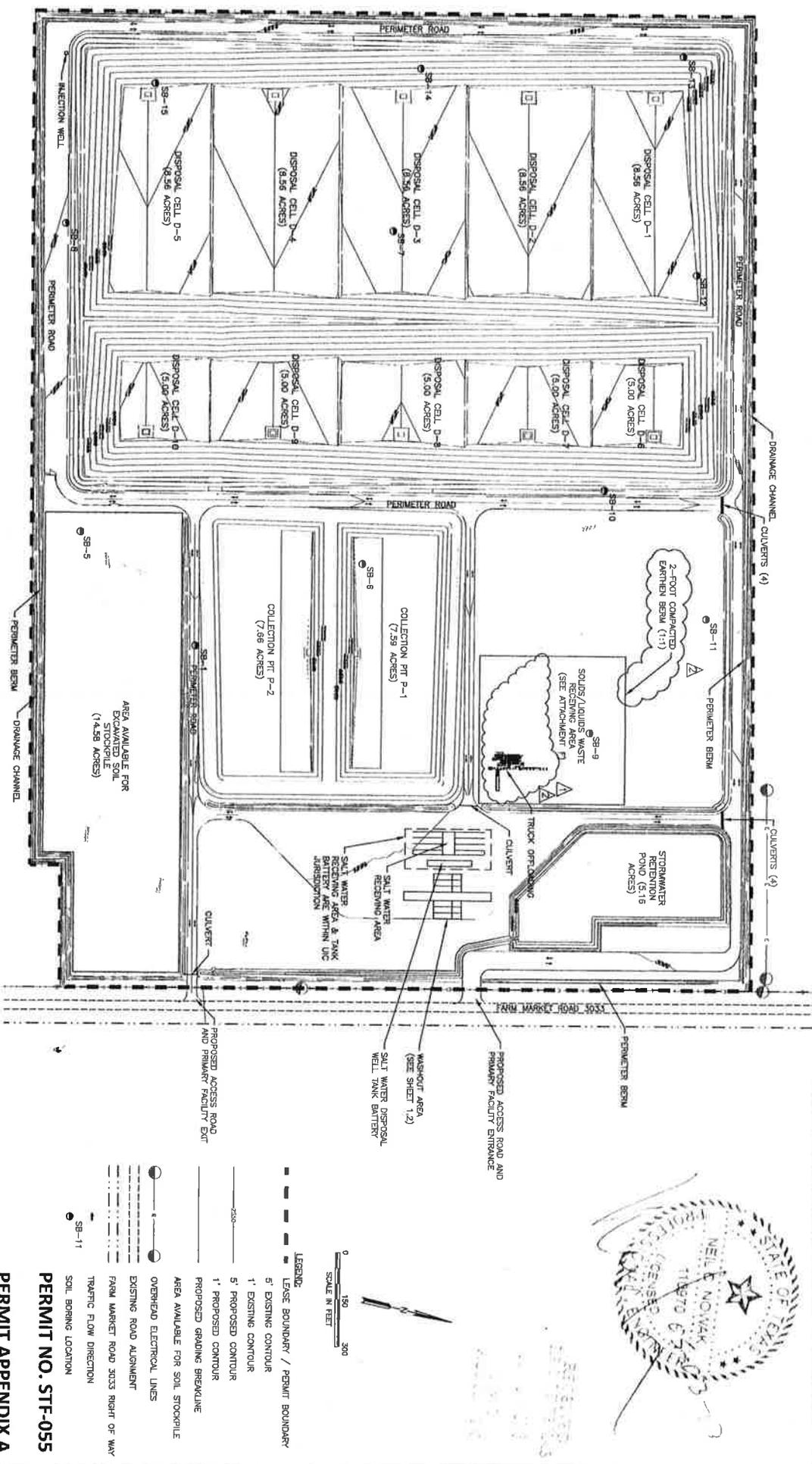
X. POST-CLOSURE CARE AND MONITORING:

- A. The site must be monitored for a period of no less than five years after closure of the facility.
- B. Post-closure care must include the quarterly inspections of the entire facility by a registered professional engineer for signs of deterioration.
- C. Any areas showing signs of erosion must be contoured and backfilled or reseeded.
- D. The leak detection systems and the leachate collection systems must be maintained and monitored quarterly. Any leachate detected shall be pumped out and disposed of in an authorized manner.
- E. A summary of the results of the post-closure monitoring activity must be submitted to Technical Permitting in Austin as part of the Quarterly Report required in Condition I.M. of this permit.
- F. The permittee must request in writing permission to cease post-closure monitoring. Post-closure monitoring requirements may be extended by Technical Permitting based on the monitoring results.

This authorization is granted subject to review and cancellation should investigation show that such authorization is being abused.

A handwritten signature in black ink, appearing to read 'Doug Johnson', written over a horizontal line.

Doug Johnson, P.E.
Assistant Director
Technical Permitting



- NOTES:**
- EXISTING SITE TOPOGRAPHY AND FEATURES BASED ON SURVEY PERFORMED BY JOHN F. WATSON & CO. ON OCTOBER 18, 2011.
 - MATERIAL STOCKPILED IN AREAS AVAILABLE FOR SOIL STOCKPILE SHALL CONSIST OF CLEAN SOIL. MATERIALS EXCAVATED TO CONSTRUCT THE FACILITY.
 - THIS DOCUMENT IS RELEASED FOR THE PURPOSES OF REVIEW UNDER THE AUTHORITY OF THE COMMISSION ON TEXAS P.E. NO. 119970, FEBRUARY 29, 2013. IT IS NOT TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

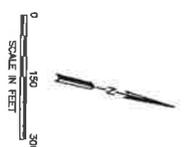
FOR INFORMATIONAL PURPOSES ONLY		REVISIONS	
<input type="checkbox"/>	REVISION FOR PERMIT	NO.	DATE
<input type="checkbox"/>	REVISION FOR BID	1	11/15/2011
<input type="checkbox"/>	REVISION FOR CONSTRUCTION		

PROJECT NO. 119970 SHEET NO. 1.1 DATE: 11/15/2011	VICKSBURG FACILITY MARTIN COUNTY, TEXAS <i>Wesley Boas</i> CONSULTANT
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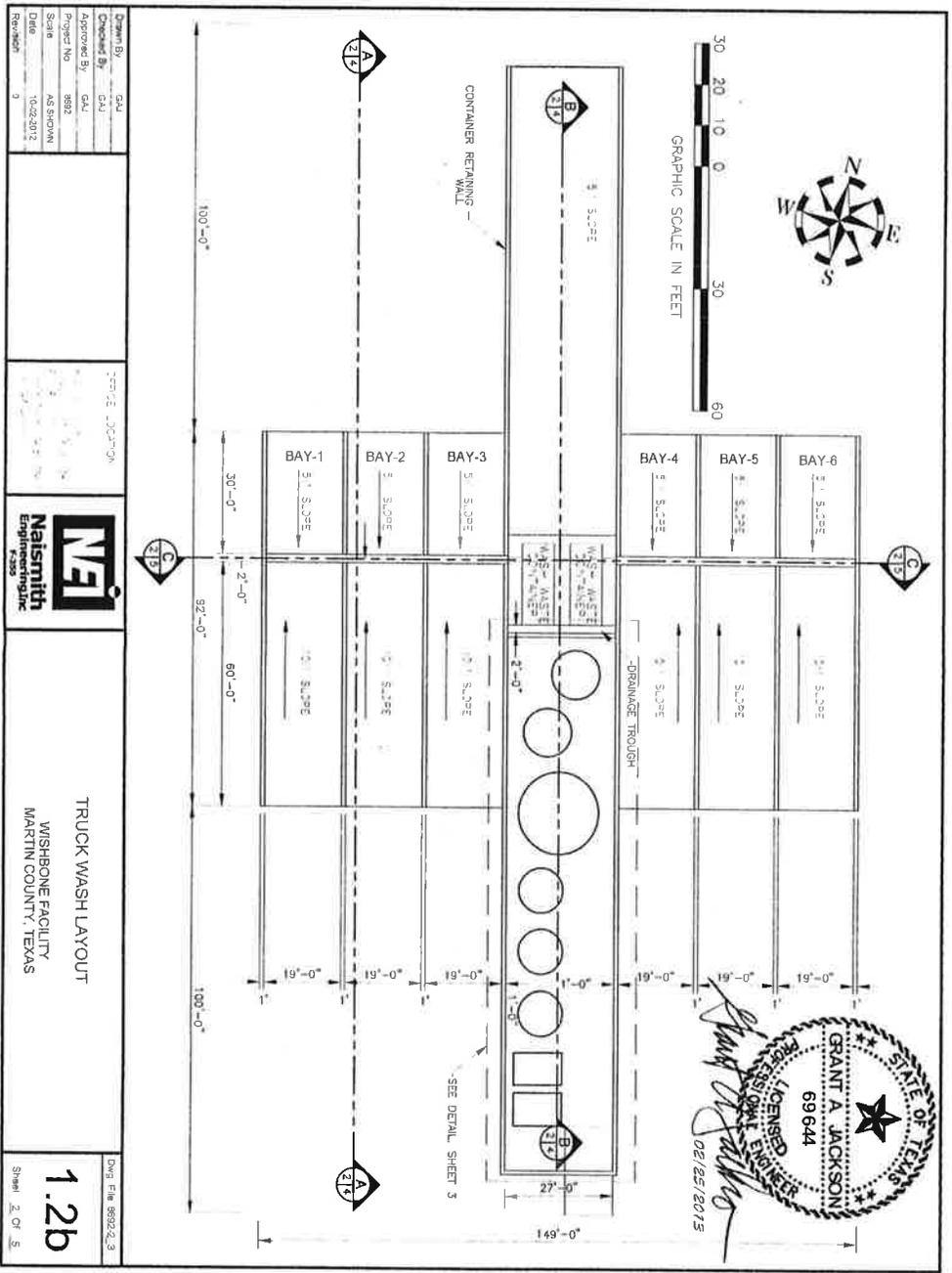
PERMIT APPENDIX A

PERMIT NO. STF-055

SITE LAYOUT



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Drawn By	SAD
Checked By	CAJ
Approved By	CAJ
Project No.	8892
Scale	AS SHOWN
Date	10-22-2012
Revisions	9



TRUCK WASH LAYOUT
 WISHBONE FACILITY
 MARTIN COUNTY, TEXAS

DWG FILE 8892-2.9
 1.2b
 SHEET 2 OF 5

PERMIT NO. STF-055
 PERMIT APPENDIX C