Stormwater Pollution Prevention Plan

ASARCO - Encycle Facility
Soil Remediation Project

5500 Up River Road, Corpus Christi, TX

(month) (day), 2012

(soil remediation contractor name and logo here)

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(Soil Remediation Contractor name and signature here)

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ASARCO-Encycle Facility
Soil Remediation Project

5500 Up River Road,
Corpus Christi, Texas

Prepared for:
ASARCO – Encycle Facility Soil Remediation Project
Corpus Christi, Texas

Prepared by:

(Soil Remediation Contractor Name and Address Here)

Project Reference:_____

Date:
(Month) (Day), 2012

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F BMP Installation Diagrams

1.0 Introduction

Under Section 26.040 of the Texas Water Code, the Texas Commission on Environmental Quality (TCEQ) has issued Texas Pollutant Discharge Elimination System (TPDES) General Permit No. TXR150000, covering eligible stormwater and certain types of non-stormwater discharges into waters of the State from construction activities. The TPDES General Permit was issued on March 5, 2008 and will expire on March 5, 2013. These discharges are authorized in accordance with the requirements of 40 Code of Federal Regulations (CFR) 122.26. Clean Water Act (CWA) Sections 301, 304, and 401 (33 U.S. Code (USC) Sections 1331, 1314, and 1341) include provisions which state that NPDES permits must include effluent limitations requiring authorized discharges to:

1. Meet standards reflecting levels of technological capability;
2. Comply with EPA-approved State water quality standards; and
3. Comply with other State requirements adopted under authority retained by States under CWA Section 510, 33 USC 1370.

This SWP3 has been prepared in accordance with good engineering practices and the current general permit. This plan identifies the potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges associated with a soil remediation project at the Former Asarco-Encycle Facility at 5500 Up River Road in Corpus Christi, Texas. In addition, this plan describes and ensures the implementation of BMPs that are to be used to reduce pollutants in the stormwater discharges from the facility and ensure compliance with the terms and conditions of the TPDES General Permit for construction activities.

All reports and certifications required by the general permit are signed in accordance with the requirements of 30 TAC 305.128 and 30 TAC 305.44(a). A copy of the completed Site Notice will be included in **Appendix B**. Changes to this SWP3 will be recorded in **Appendix C**.

This plan will be updated if there is a change in soil remediation plans that has a significant effect on the potential for the discharge of pollutants to the waters of the state. It will also be reviewed and modified, as necessary, if the SWP3 proves to be ineffective in eliminating or significantly minimizing pollutant volumes from sources identified in the permit, or in otherwise achieving the general objectives of controlling pollutants in stormwater discharges associated with soil remediation activity.

2.0 Project Description

2.1 Site Location

The Encycle Facility is located at 5500 Up River Road in Corpus Christi, Texas (Site [Figure 1]). The facility was formerly a large hydrometallurgical complex, originally operated by the American Smelting and Refining Company (ASARCO). ASARCO operated the facility as a zinc smelter from 1942 through 1985. Encycle Texas Inc (Encycle) subsequently operated the facility as a metals recycling facility until operations ceased in 2003.

2.2 Proposed Activities

The project requires excavation and on-site stabilization of approximately 15, 000 tons of metals-affected soils. The project will disturb approximately 12 acres including soil excavation areas, equipment staging areas, and material storage areas.

Soil Excavation

The soil remediation project will include excavation of metals affected soils to an average depth ranging from approximately 0. 5 feet to 2.5 feet in nine areas of the Site (former solid waste management unit areas) as shown on Figures 3 and 4. The excavated soils will be stockpiled in an on-site building (Lettered Bins Building) for soil stabilization. Pending the results of verification soil sample analytical results, the soil excavation areas will be backfilled to pre-existing grade using clean select compacted soil and an approximate six inch topsoil cover seeded with native grass.

Wooden Railroad Tie Removal

This work task will involve removal of the wooden railroad ties that are located along four inactive railroad spurs extending from the boneyard area on the Meaney tract to the former wastewater treatment plant (WWTP) area in the eastern portion of the Site. The steel rail over these railroad ties has been previously removed from the site. The hazardous railroad ties (located north of the Lettered Bins Building) will be loaded and transported directly to the designated offsite landfill. The non-hazardous railroad ties may be temporarily wrapped in 6 mil Visqueen and utilized as storm water diversion berms around the perimeter of the soil excavation areas. These non-hazardous railroad ties will then be disposed of at the designated offsite landfill as part of this project.

O1 Landfill Capping

This work task will include adding additional clay and topsoil to the existing clay cap of the O1 landfill, which is located at the northeastern end of the site (see Figure 4). The area to be capped with additional clay is approximately 3,173 square feet near the northwest corner of the O1 landfill. The clay cap will consist of clean select low-permeability compacted clayey soil with a six inch topsoil cover seeded with native grass.

2.3 Project Schedule

The projected start date for this project tentatively scheduled for the fall or winter of 2012 with work anticipated to be complete by early 2014. A general schedule for the work is included below.

Mobilization, (date), 2012 -

- Mobilization of equipment and personnel
- Set up construction trailer
- Install up barricades, orange fencing, and best management practices (BMP) including geotextile covers on existing storm drain grates
- Complete onsite safety/storm water orientations
- Hook up water line for soil remediation dust suppression

Soil remediation and railroad tie removal activities, beginning week of (date), estimated time for completion is up to 18 months -

- Install silt fencing upslope and downslope of soil excavation areas
- Excavate affected soils and transport to Lettered Bins Buiding
- Cover soil excavation areas with 6 mil polyethylene sheeting
- Install storm water diversion berms around soil excavation areas
- Pending verification soil sample results, backfill excavations with clean select clayey loam, silt loam, or sandy loam.
- Resurface excavation areas with six inches topsoil seeded with native grass to establish grass growth

O1 Landfill clay capping activities, beginning week of (date), estimated time for completion is up to 3 months -

- Install silt fencing upslope and downslope of soil capping area
- Install storm water diversion berm around perimeter of soil capping area
- Remove existing vegetation and add low-permeability clay cap material
- Compact clay cap material in 6 to 9-inch lifts
- Install six inches topsoil above clay cap material
- Seed topsoil with native grass and water to establish grass growth

Demobilization, estimated to occur by early 2014

- Remove equipment
- Take down BMP's
- Clean site

3.0 Pollution Prevention Team

The table presented below summarizes information concerning the Pollution Prevention Team at this site. These team members are responsible for development of the SWP3 and for implementation, maintenance, and revisions of the plan.

Employee Name	Employee Title	Designated SWP3 Responsibility
(Soil Remediation Contractor Name here)	Project Safety Officer	Senior management authority; provide corporate support to ensure availability of necessary resources to maintain compliance with the permit and SWP3; is a duly authorized representative.
(Soil Remediation Contractor Name here)	Project Manager	Qualified Individual; ensure compliance with the permit and SWP3; record reportable spills/leaks of hazardous substances; conduct site compliance evaluation; review and modify the plan to keep it current; ensure record keeping.

(Soil Remediation Contractor Name here)	Project QA/QC Officer	Overall SWP3 implementation on a daily basis; conduct periodic site inspections; conduct visual examinations of stormwater quality.

4.0 Potential Stormwater Pollutant Sources On-Site

Potential sources of storm water quality impacts include runoff from soil excavation areas, material staging areas, equipment refueling operations, and load out of stabilized soil from the Lettered Bins Building for disposal at the designated landfills. The following figures identify possible source locations of pollutants which could impact storm water or uncontaminated waters used to control dust:

- Soil excavation areas, as shown on Figures 3 and 4, could impact water quality through unfiltered run-off of storm water.

- The soil stabilization area inside the Lettered Bins Building could impact water quality through unfiltered run-off of storm water.

- The soil capping area at the northwest corner of the O1 Landfill could impact water quality through unfiltered run-off of storm water.

- Storm water runoff from vehicle parking areas, as well as runoff dust suppression water could impact storm water quality. Figure 5 illustrates the layout of the existing storm sewer system and the location of storm drain inlets which will be protected from pollutant sources during the course of the project.

5.0 Pollution Prevention Measures and Controls

As required by the terms of the general permit, the construction team has identified the appropriate BMPs needed to reduce or eliminate the potential for contamination of storm water run-off. The types and locations of structural controls in place during the project are identified on **Figure 6.** The pollution prevention measures and controls associated with these sources are described below.

5.1 Best Management Practices

Best Management Practices will be implemented on the project site to prevent stormwater pollution to the extent practicable. Erosion control and stabilization BMP's for the project include:

<u>Soil Excavation and Soil Capping Areas</u>:

- Preserving and protecting existing vegetation where possible.
- Utilizing existing vegetative buffer strips to intercept surface runoff.
- Implementing dust control measures (wetting of work areas).
- Use of silt fencing upslope and downslope of soil excavation and soil capping areas.

- Figure 5 illustrates the location of storm drain inlets which will be covered with a nonwoven Geotextile fabric (Hanes Geo Components Model TerraTex N04 or Trustee approved equal). Sandbags, hay bales, or CMU blocks will be utilized at each storm drain grate to secure the Geotextile fabric, and to create temporary sediment barriers at storm drain inlets.
- The soil excavation areas will be covered with 6 mil Visqueen sheeting.
- An 8-inch-high storm water diversion berm will be installed around the perimeter of each soil excavation and soil capping area. The berms will consist of 6 ml Visqueen-wrapped nonhazardous railroad ties, power poles, sand bags, CMU blocks, bricks, concrete, or wood.
- As shown on Figure 6 (Updated May 2012),an 8-inch-high storm water diversion berm will be installed along the south property boundary between the Change House and the Administration Building, prior to initiation of soil remediation activities.

Water Generated During Railroad Tie Loading and Dust Suppression:

- Wooden railroad ties are located near the northern end of the Meaney Tract and the Southern Tract (see Figures 3 and 4). Dust suppression water will be utilized throughout the site, including the soil excavation areas and Lettered Bins Building soil treatment area shown on Figures 3 and 4. Figure 5 illustrates the location of storm drain inlets (grates) which are present throughout these areas. The storm drain grates will be covered with a nonwoven Geotextile fabric (Hanes Geo Components Model TerraTex N04 , or Trustee approved equal). Sandbags, hay bales, or CMU blocks will be utilized at each storm drain grate to secure the Geotextile fabric, and to create temporary sediment barriers at storm drain inlets.
- The geotextile fabrics on the storm drain grates will be replaced at least every 30 days, and within three working days following rainfall events of 0.25 inches or greater. The used Geotextile fabrics will be placed into a roll-off box that will be tarped. The Geotextile fabrics in the roll off box will be disposed at the designated offsite landfill.

General Construction Activities:

- Preserving and protecting existing trees and vegetation where possible.
- Utilizing existing vegetative buffer strips to intercept surface runoff.
- Use of a designated stabilized construction entrance.
- Implementing dust control measures (wetting of work areas).
- Use of silt fencing and straw bales with non-woven geotextile to prevent sediment transport.
- Use sandbags or hay bales to create temporary sediment barriers at storm drain inlets.
- Covering storm drain inlets with non-woven geotextile fabric.
- Maintaining spill control and counter measures.
- Installation of temporary containment curbs or berms as needed to prevent transport of material from work area.

Additional details regarding BMP installation may be found in Appendix F.

5.2 Management of Runoff

Stormwater from the site not contained within existing concrete secondary containment areas discharges into a three tier storm water detention system which provides for sedimentation of suspended solids in storm water discharges from the facility prior to ultimate discharge into the Corpus Christi Ship Channel which is connected to Nueces Bay. The project will implement the BMPs described in section 5.1 during the project to avoid reducing the quality of stormwater runoff into the detention system. Figure 6 indicates the existing plant outfalls, surface water flow direction, location of sediment control measures, existing secondary containment structures, and location of storm water detention features. As noted in Figure 5, storm water from the site enters a storm drain system which consists of approximately 200 grated storm drain inlets. Storm water entering the storm drain inlets gravity flows through storm drain piping into a concrete sump near the railroad tracks northeast of Building 14 (Lettered Bins Building). Stormwater that enters the concrete sump gravity discharges through a pipe near the top of the sump into the West Lagoon, which has a high-density polyethylene (HDPE) liner. When the west lagoon is full, storm water flows into the east lagoon, which has a clay liner. When the east lagoon is full, storm water discharges into a concrete lined ditch that flows northerly into the Corpus Christi Ship Channel near the northeast corner of the East Lagoon. Water in the Corpus Christi Ship Channel ultimately discharges into Nueces Bay. Total detention capacity of the west and east lagoons is approximately 6,000,000 gallons.

As detailed in Section 1.2.2 of the December 1999 report entitled "*Closure Plan – East and West Lagoons, Encycle/Texas, Inc., Corpus Christi, Texas"* that was approved by the TCEQ on March 30, 2000,during significant rainfall events storm water fills the lagoons and then discharges through a concrete-lined drainage ditch east of the lagoons. The concrete-lined drainage ditch east of the lagoons flows northerly into the Corpus Christi Ship Channel (Outfall 002).

Encycle/Texas, Inc. previously discharged treated water from the plant wastewater treatment system to the Corpus Christi Ship Channel via Outfall 001. Outfall 001, which is a submerged pipe approximately 50 feet northeast of the storm water lagoons, is no longer discharging since the Encycle wastewater treatment plant was shut down in 2005.

The soils and railroad ties to be excavated/removed are located within the existing plant storm drain system (Figure 5), with the exception of the soil excavation near the northeast corner of the O1 landfill (Figure 4). Necessary measures such as BMPs and other runoff management controls as necessary shall be implemented to prevent dust suppression water from entering the storm drain system. Straw bales and silt fencing will be installed downslope of the O1 Landfill soil excavation area, and a storm water diversion berm will be installed around the O1 Landfill soil excavation area to prevent storm water runoff from contacting affected soils in this area.

Management of runoff from the excavated soil stabilization area will be controlled by stockpiling the excavated soils and associated soil stabilization reagents and additives inside the Lettered Bins Building. Therefore the soil stabilization areas will not be in direct contact with storm water. The existing

concrete ramp at the east entrance door of the Lettered Bins Building will be maintained to prevent storm water from entering the building.

5.3 Good Housekeeping Measures

Soil excavation equipment and supplies will be properly maintained to reduce the risk of pollution from materials such as new and used motor and transmission oils. Practices such as storing oils in sealed containers, covering containers with plastic sheeting or placing containers in portable equipment storage sheds, proper material handling, and spill prevention and cleanup measures will be utilized to reduce the potential for stormwater runoff to mobilize construction site wastes and contaminate surface or ground water.

In order to eliminate the impact from potential pollutant sources the following summarizes good housekeeping practices that will be implemented at the site:

- Clean equipment and trucks prior to arriving and upon leaving the site.
- Dispose of greasy rags properly or recycle.
- Promptly transfer used fluids to the proper container.
- Inspect equipment regularly for leaks and general condition.
- Keep work areas neat and orderly.
- Keep material staging areas neat and orderly.
- Tarp roll-off containers and truck beds.
- Store soil treatment reagents and additives in sealed containers, or within the Lettered Bins Building.

The good housekeeping measures outlined in this section of the plan are incorporated in the employee education program.

5.4 Spill Prevention and Response Measures

The project team has developed and implemented spill prevention and response measures to adequately respond to a spill. These measures include the following, as applicable:

- Identification of areas and structures where a spill could contribute pollutants to stormwater discharges;
- Implementation of procedures to minimize or prevent contamination of stormwater from spills (e.g., equipment inspections for leaks; modification of material handling techniques; and routine inspections of equipment storage areas, and other storage containers);
- Clear labeling of drums and other containers;
- Clear labeling of the Lettered Bins Building for stockpiling of excavated soils;
- Conducting soil stabilization activities within the Lettered Bins Building;

- Prompt loading of treated soils for transportation and disposal at the designated offsite landfill;
- Implementation of specific spill prevention and clean up techniques;
- Training on the location of material and equipment necessary for spill clean-up;
- Maintenance and inventory of spill cleanup materials and equipment; and
- Completion of regularly scheduled employee training.

The project team has prepared standard operating procedures for removal and handling of hazardous materials (soils, wooden railroad ties) which are included in the Hazard Communication Plan and Hurricane Preparedness Plan. These plans can be found on-site at the project office trailer under separate cover.

5.5 Allowable Dust Suppression Water Quality

Any time soil excavation, soil treatment, excavation backfilling, or railroad tie removal activities that create dust are being conducted, the work area will be sufficiently wetted to prevent fugitive dust emissions. The project team has elected to re-establish utility based water service. Municipal water from the City of Corpus Christi will be utilized for dust suppression during soil remediation activities. Storm water will not be utilized for dust suppression activities.

5.6 Employee Education

Stormwater pollution prevention training is provided to all personnel responsible for implementation of the SWP3. The training will be conducted at the start of the project. Employees who do not have direct responsibilities for SWP3 implementation at this worksite are provided with an awareness level stormwater pollution prevention education training. The training program familiarizes employees with the good housekeeping measures, BMPs, and goals of the current SWP3. Additionally, stormwater pollution prevention is discussed regularly (at least weekly) during daily tailgate meetings and all employees are encouraged to proactively protect stormwater runoff.

5.7 Periodic Site Inspections

The designated person identified in Section 3.0 will conduct daily inspections of the BMPs and potential sources of stormwater pollutants. The purpose of the inspections is to determine the effectiveness of the Good Housekeeping Measures, Best Management Practices, and Employee Training Program. These daily inspections are not necessarily documented. Official inspections of the BMPs and potential sources of storm water pollutants conducted will be conducted weekly and within 24 hours of a rain event and documented on an inspection form. The inspection form for use during these inspections can be found in **Appendix E**.

A set of tracking or follow-up procedures will be used to ensure that appropriate actions are taken in response to these periodic inspections. When revisions or additions to this plan are recommended as a result of inspections, a summary description of these proposed changes will be recorded in **Appendix C**.

Records

The following records will be maintained during the construction project:

- The dates when major soil excavation activities occur;
- The dates when soil excavation activities temporarily or permanently cease on a portion of the site; and
- The dates when stabilization measures are initiated.

These dates will be recorded on the form found in **Appendix D** and these records will be stored with this SWP3. These records will be made readily available upon request to the parties listed in Part III.D.1 of the general permit.

5.8 Routine Maintenance

Sediment control features shall be maintained in good condition to ensure proper function. Maintenance specifications for each device are outlined below.

Silt Fence

- Should the fabric of the silt fence collapse, tear, decompose or otherwise become ineffective, replace it as soon as possible.
- Remove silt deposits once they reach 30 percent the height of the fence to provide adequate storage volume for the next rain event and reduce pressure on the fence. Take care to avoid undermining the fence during cleanout. Accumulated sediment should be placed in a roll off dumpster for disposal at an authorized facility, pending collection of a representative sample of the material and receipt of analytical laboratory results.
- Silt fences are to be removed upon stabilization of the contributing drainage area.

Storm Drain Inlet Protection

- Nonwoven geotextile fabrics on each storm drain grate should be inspected for damage at least weekly and following all significant (0.25 inch or greater) rainfall events.
- Should the non-woven geotextile fabric tear or otherwise become ineffective, replace it as soon as possible. Place used geotextile fabrics in a tarped roll off box for disposal at an authorized facility, pending collection of a representative sample of the material and receipt of analytical laboratory results.

Straw bales

- Straw bales degrade, especially when exposed to moisture. Rotting bales will need to be replaced on a regular basis.
- Replace or repair damaged bales and washouts as needed.

- Sediment should be removed when the sediment accumulation reaches one-third of the barrier height. Accumulated sediment should be placed in a tarped roll off box for disposal at an authorized facility, pending collection of a representative sample of the material and receipt of analytical laboratory results.

Stabilized Project Entrance

- The entrance should be maintained in a condition that will prevent tracking or flow of mud or debris onto public rights-of-way. This may require periodic top dressing with additional 2 in. stone (as conditions demand) and repair or cleaning of any structures used to trap sediment.
- All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains should be removed immediately. When necessary, vehicle wheels should be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it should be done on an area stabilized with aggregate that drains into an approved sediment trap.
- Trapped sediment should be removed from the site or stabilized on site and prevented from entering storm drains, ditches, or waterways. Disturbed soil areas resulting from removal should be permanently stabilized.
- The stabilized construction entrance may be removed after final site stabilization is achieved or after the temporary BMPs are no longer needed.

Stockpile Management

- Locate stockpiles a minimum of 50 ft away from concentrated flows of storm water, drainage courses, and inlets.
- Implement wind erosion control practices as appropriate on all stockpiled material.
- Load and transport excavated soil stockpiles to the Lettered Bins Building, or return to the excavation by the end of each working day.

6.0 Storm Water Outfall 002 Monitoring to be Conducted by Trustee

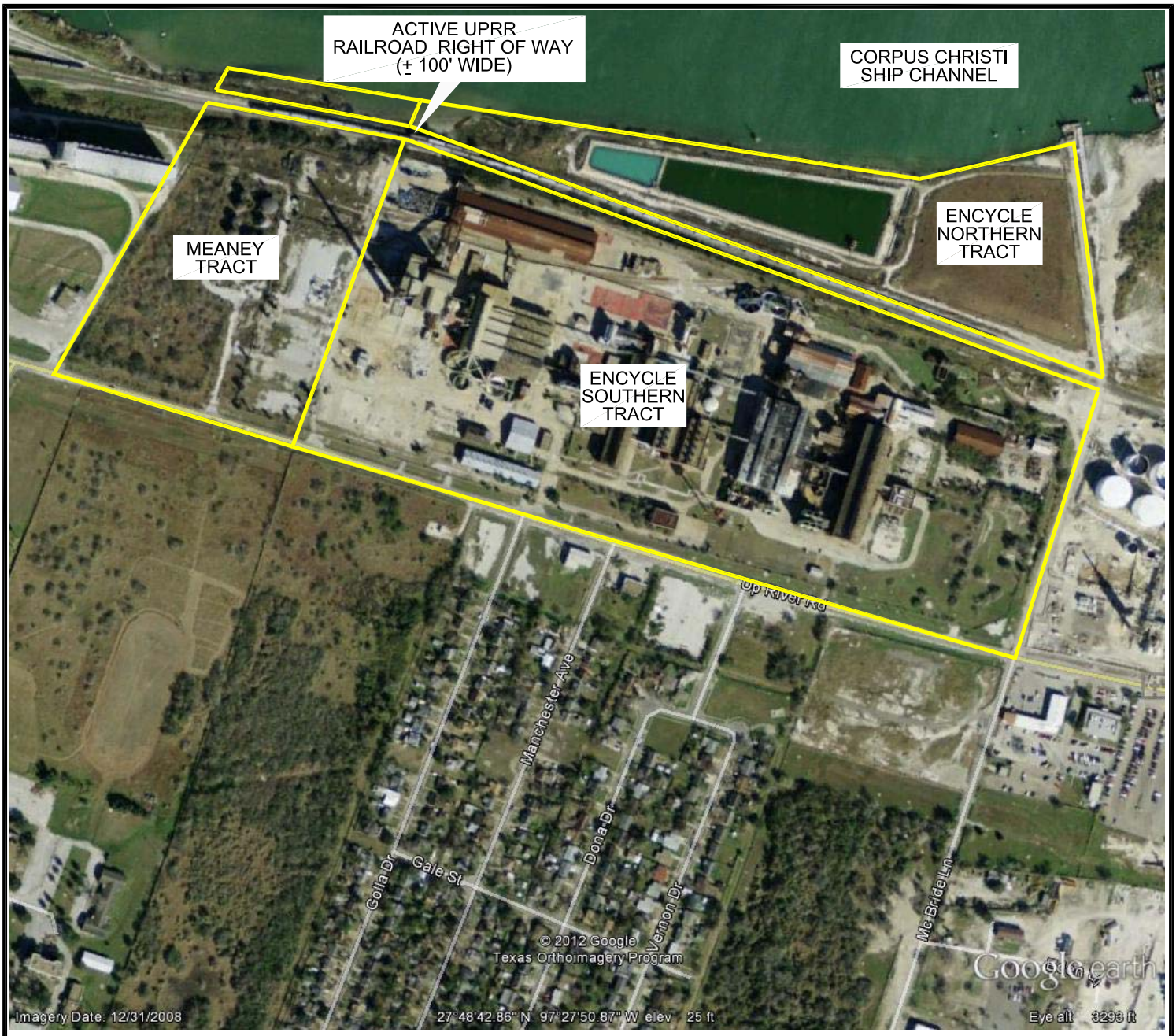
Storm water sampling of Outfall 002 (at the spillway at east end of East Lagoon) will be conducted by the Trustee's designated representative during the soil remediation project. Samples of storm water will be collected from Outfall 002 by the Trustee's designated representative in accordance with the Permit No. TX0003191 following each rainfall event that results in a storm water discharge from Outfall 002 (i.e., spillway at the east end of the East Lagoon). The storm water discharge samples will be analyzed for pH, total suspended solids (TSS), and total arsenic, cadmium, copper, lead, zinc, and selenium. The storm water sample analytical data will be reported to the TCEQ by the Trustee or the Trustee's designated representative using the Outfall 002 Discharge Monitoring Report (DMR) form. Storm water samples also will be collected from Outfall 002 **during each sampling event required by the Storm Water Permit** by the Trustee's designated representative and analyzed for chemicals of potential concern identified through the TCEQ-EPA organics screening in 2011 including SVOCs, PCBs, asbestos and metals that are not already part of the TPDES permit, and reported to the Water Quality Section to determine if any permit amendments are necessary. In addition, samples of storm water will be collected **during each sampling event required by the Storm Water Permit and when discharges from**

the West Lagoon to the East Lagoon are observed by the Trustee's designated representative at the spillway between the West Lagoon and East Lagoon and analyzed for chemicals of potential concern identified through the TCEQ-EPA organics screening in 2011 including SVOCs, PCBs, asbestos and metals that are not already part of the TPDES permit, to evaluate the effectiveness of implemented BMPs. Sampling and analyses for analytes not already part of the TPDES permit may be discontinued based on analytical data with specific written approval of the TCEQ.

Based on the storm water sample analytical results, and if an unauthorized storm water discharge is observed during storm events, modifications and/or augmentation of the BMPs described in this SWPPP may be required by the Contractor. These modifications and/or augmentation may include, but are not limited to, installing additional storm water diversion berms and silt fencing, increasing storm water diversion berm heights, installing new storm water diversion berms, etc.

7.0 Post Soil Excavation Activities

After soil excavation activities are complete and all equipment and excavated soils have been removed from the site, roads and equipment staging areas will be swept of all sediment. Silt fences, hay bales, geotextile storm drain inlet protection fabrics, and other sediment and erosion control devices will be removed and any accumulated sediment will be disposed of properly at an authorized facility, pending collection of a representative sample of the material by the Trustee's designated representative, and receipt of analytical laboratory results. Areas of soil excavation will be seeded and restored to pre-existing condition.



N

0 500'

LEGEND

SITE BOUNDARIES

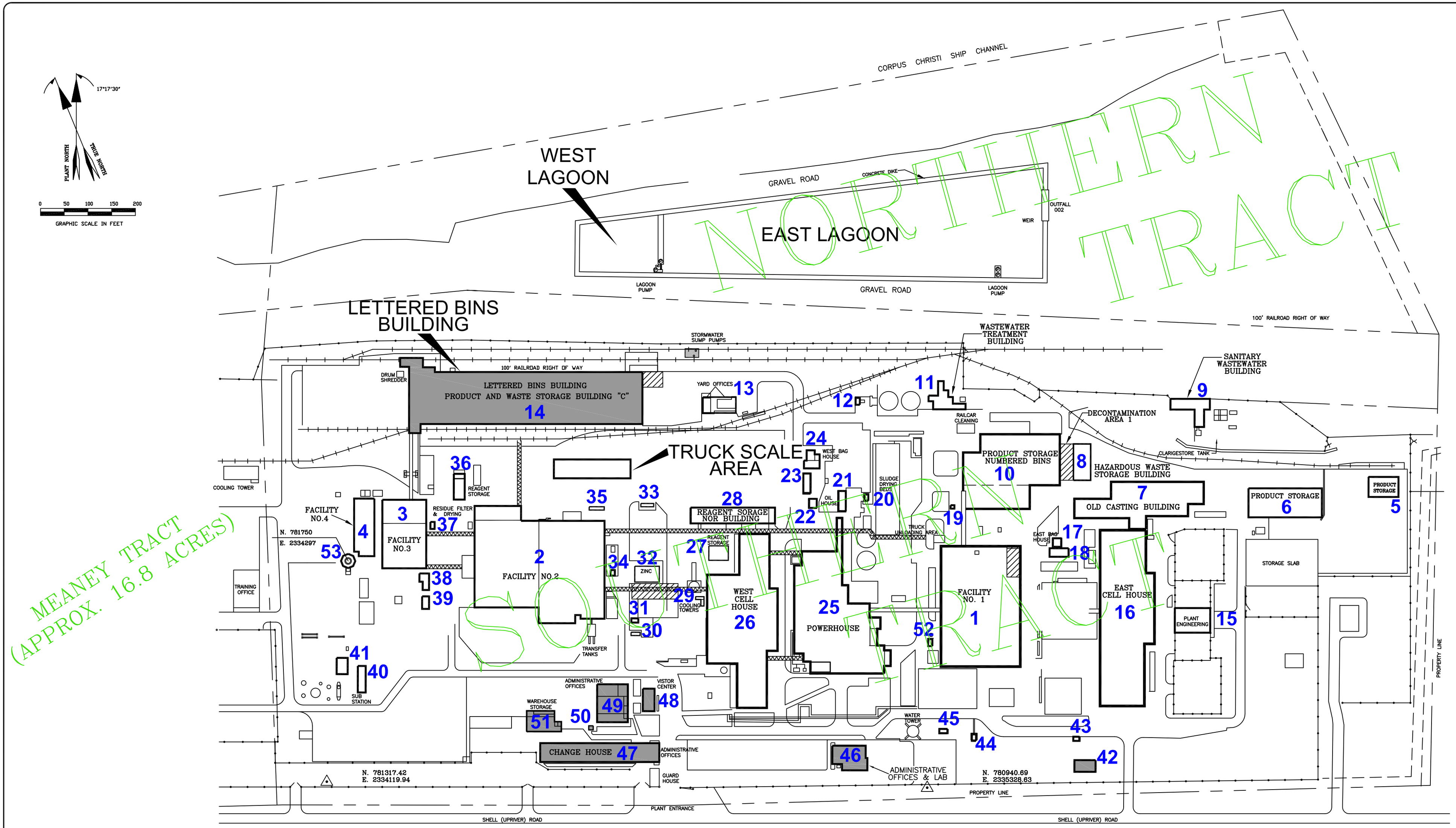
ENCYCLE TEXAS, INC.
5500 UP RIVER ROAD
CORPUS CHRISTI, TEXAS

SITE LOCATION MAP

ARCADIS

FIGURE
1

CITY: DIV/GROUP: DB: LD: AM: PD: TM: TR: LYR:ON=*;OFF=*REF*
G:\Active Projects\Encycle\1231.0001 - Encycle Demolition Oversight\Soil Remediation Bid Package\Figures-Maps\Figure 1 Site Loc.dwg LAYOUT: MODEL SAVED: 1/30/2012 2:09 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 1/30/2012 3:01 PM BY: LEASE, DIANA



L E G E N D

1 BUILDING ID NUMBER

DENOTES EXISTING BUILDING

ALL BUILDINGS NOT SHADED IN GRAY WERE DEMOLISHED DURING 2011 AND 2012

ARCADIS

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

REV. NO.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: CC001231.0001	FILE NO:
DRAWING: BLDG LOC	PLOT SIZE: 1=100
DRAFTED BY: DPL	DATE: 1/27/12
CHECKED BY: K. BRANDNER	DATE:
APPROVED BY: K. BRANDNER	DATE:

BUILDING LOCATION MAP (UPDATED FEBRUARY 2012)

CORPUS CHRISTI, TEXAS
ENCYCLE/TEXAS, INC.

FIGURE 2

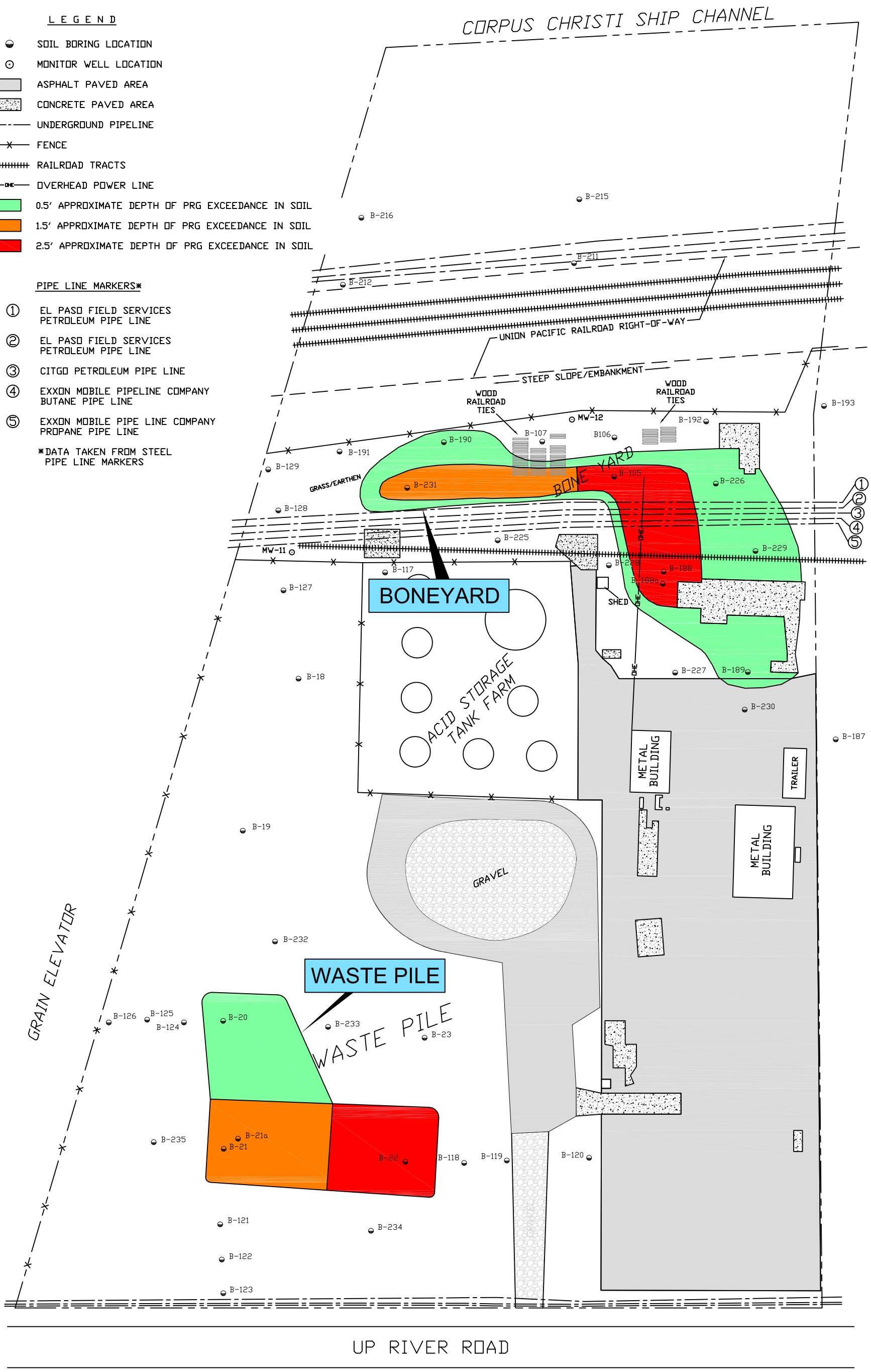
LEGEND

- SOIL BORING LOCATION
- MONITOR WELL LOCATION
- ASPHALT PAVED AREA
- CONCRETE PAVED AREA
- UNDERGROUND PIPELINE
- FENCE
- RAILROAD TRACTS
- OVERHEAD POWER LINE
- 0.5' APPROXIMATE DEPTH OF PRG EXCEEDANCE IN SOIL
- 1.5' APPROXIMATE DEPTH OF PRG EXCEEDANCE IN SOIL
- 2.5' APPROXIMATE DEPTH OF PRG EXCEEDANCE IN SOIL

PIPE LINE MARKERS*

1. EL PASO FIELD SERVICES PETROLEUM PIPE LINE
2. EL PASO FIELD SERVICES PETROLEUM PIPE LINE
3. CITGO PETROLEUM PIPE LINE
4. EXXON MOBILE PIPELINE COMPANY BUTANE PIPE LINE
5. EXXON MOBILE PIPE LINE COMPANY PROPANE PIPE LINE

*DATA TAKEN FROM STEEL PIPE LINE MARKERS



NOTES:

1) BASE MAP SURVEYED BY REGISTERED PUBLIC SURVEYOR (SHINER, MOSLEY AND ASSOCIATES, INC.) DURING SEPTEMBER 2004.

2) EXTENT AND DEPTH OF AFFECTED SOILS EXCEEDING PRGs TAKEN FROM SOIL SAMPLE ANALYTICAL RESULTS SHOWN ON CMS TABLE 1. SEE CMS TABLE 4 FOR SUMMARY OF CONSTITUENTS IN SOIL EXCEEDING PRGs ON THE MEANEY TRACT.

N

0 100'

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SCALE VERIFICATION

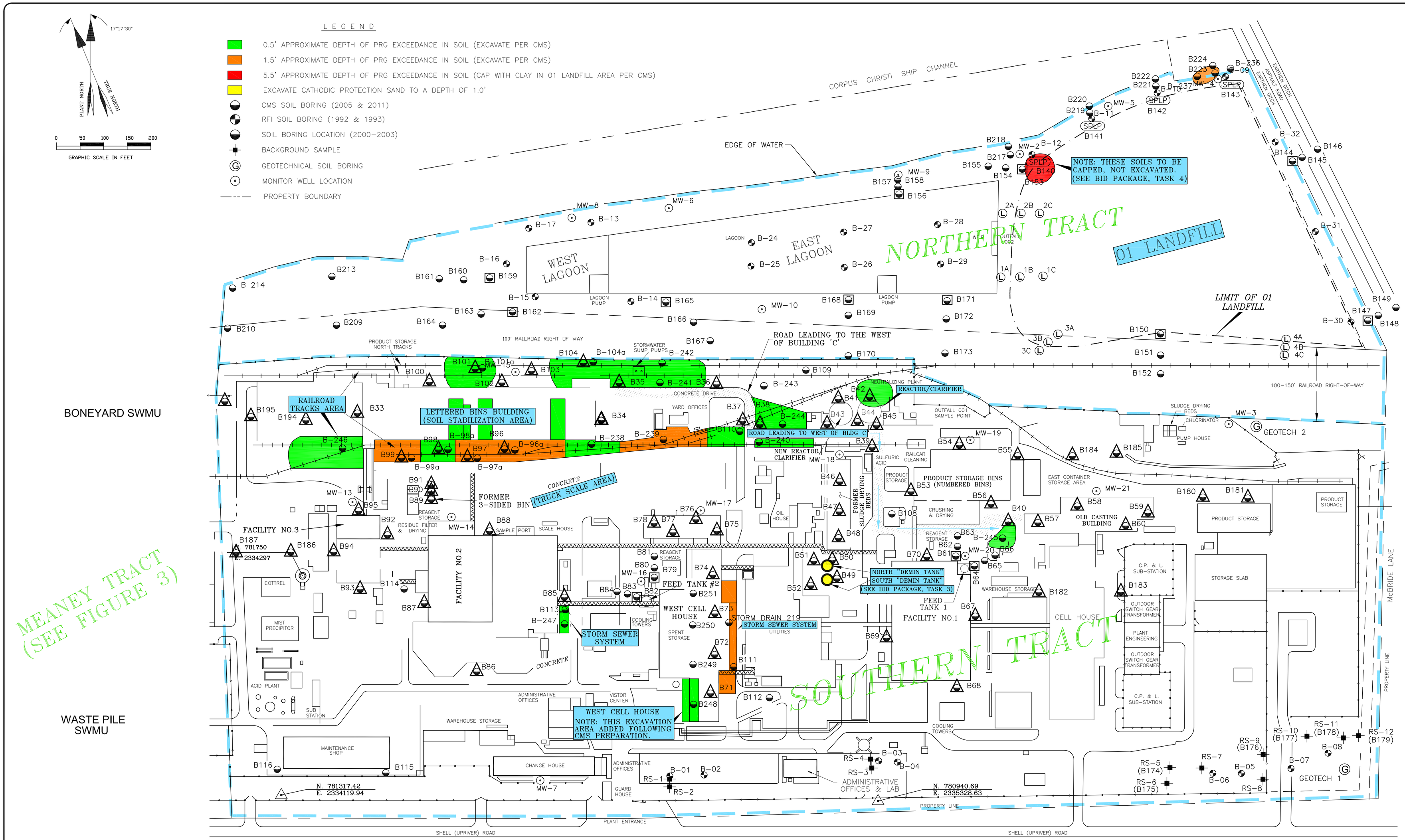
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:

USE TO VERIFY FIGURE REPRODUCTION SCALE

PROJECT NO.:	CC001231.0001	FILE NO:	
DRAWING:	MEANEY TRACT	PLOT SIZE:	1=50'
DRAFTED BY:	DPL	DATE:	1/27/12
CHECKED BY:	K. BRANDNER	DATE:	
APPROVED BY:	K. BRANDNER	DATE:	1/27/12

MEANEY TRACT
APPROXIMATE EXTENT AND DEPTH OF AFFECTED SOILS TO BE EXCAVATED
ENCYCLE/TEXAS, INC.
CORPUS CHRISTI, TEXAS

FIGURE 3



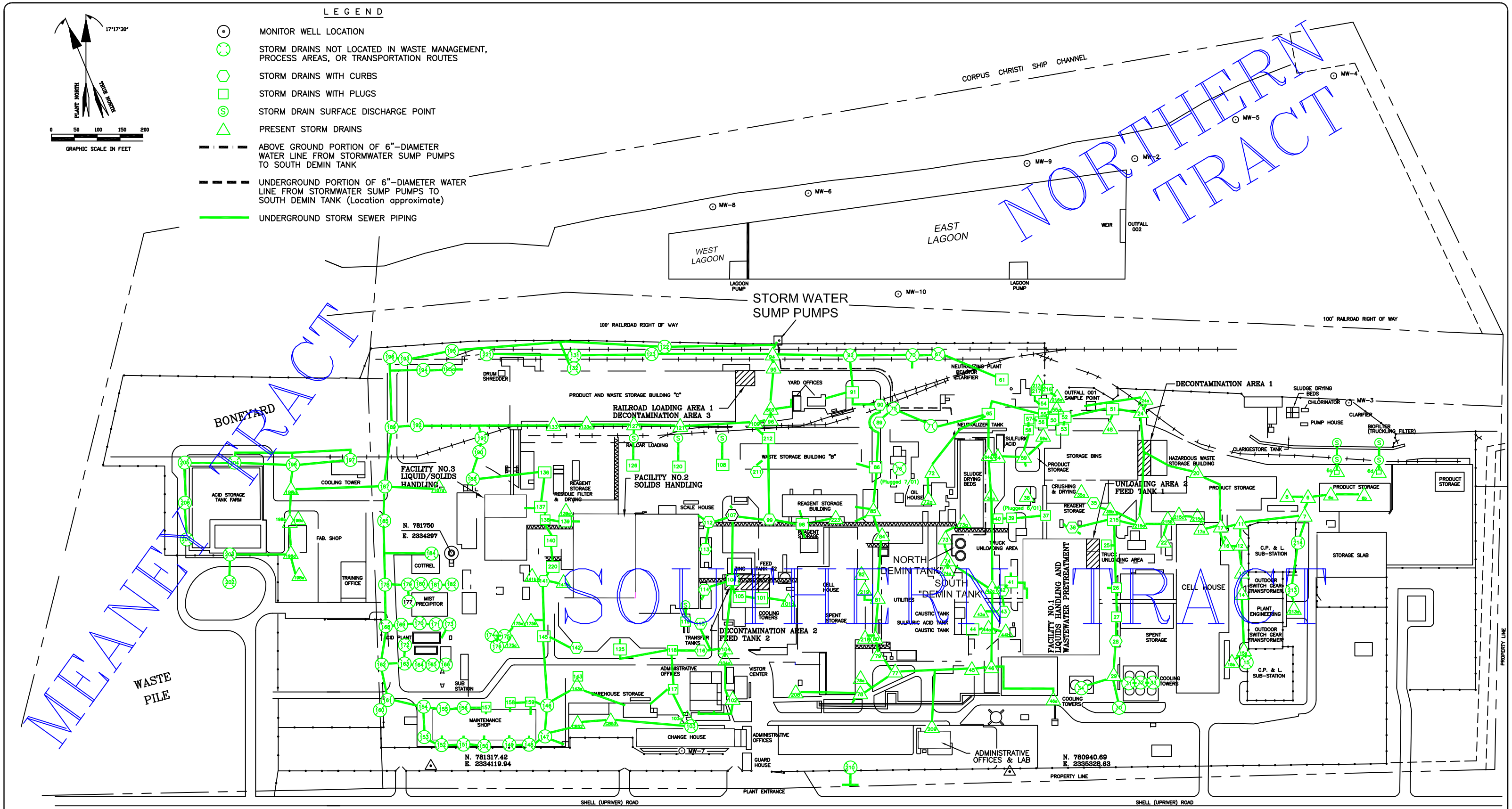
ARCADIS

SCALE VERIFICATION	REV. NO.	DATE	DESCRIPTION	BY	APPR.
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE					

PROJECT NO.: CC001231.0001	FILE NO:
DRAWING: SOIL EXCAV AREA	PLOT SIZE: 1=1200
DRAFTED BY: DPL	DATE: 1/27/12
CHECKED BY: K. BRANDNER	DATE:
APPROVED BY: K. BRANDNER	DATE:

ENCYCLE NORTHERN AND SOUTHERN TRACTS
APPROXIMATE EXTENT AND DEPTH OF AFFECTED SOILS TO BE EXCAVATED
UPDATED DECEMBER 2011
ENCYCLE/TEXAS, INC.
CORPUS CHRISTI, TEXAS

FIGURE 4



ARCADIS

SCALE VERIFICATION	REV. NO.	DATE	DESCRIPTION	BY	APPR.
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE					

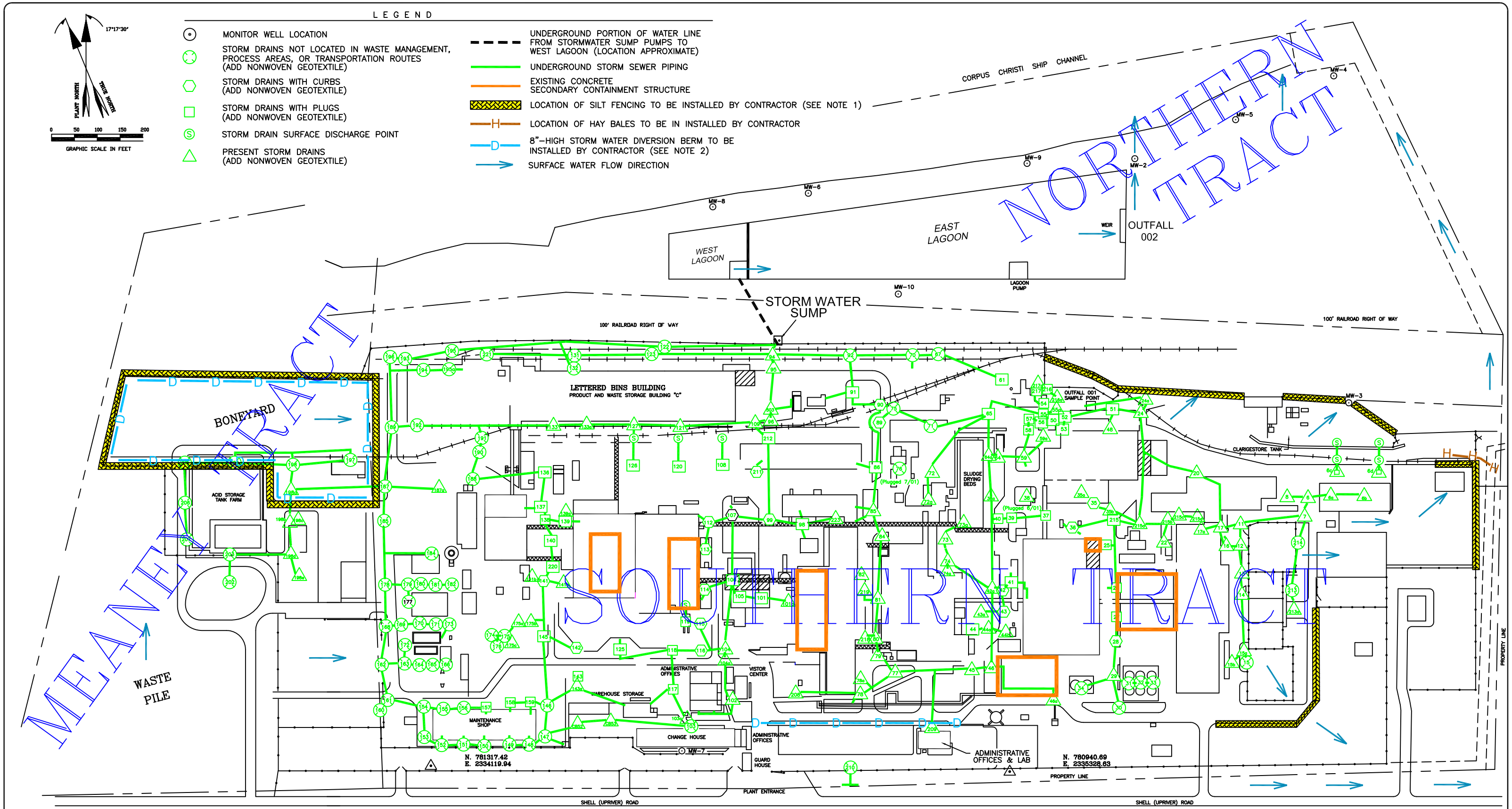
PROJECT NO.: CC001231.0001	FILE NO:
DRAWING: STORM SEWER	PLOT SIZE: 1=1200
DRAFTED BY: DPL	DATE: 2/1/12
CHECKED BY: K. BRANDINER	DATE: 2/1/12
APPROVED BY: K. BRANDINER	DATE: 2/1/12

STORM SEWER SYSTEM MAP

(UPDATED OCTOBER 2001)

ENCYCLE/TEXAS INC.
CORPUS CHRISTI, TEXAS

FIGURE 5



GENERAL NOTES:

(1) CONTRACTOR SHALL ALSO INSTALL SILT FENCING UPSLOPE AND DOWNSLOPE OF EACH ACTIVE SOIL EXCAVATION AREA, AND 01 LANDFILL CAPPING AREA. BONEYARD AREA DETAILS SHOWN.

(2) CONTRACTOR SHALL ALSO INSTALL 8"-HIGH STORMWATER DIVERSION BERM AROUND THE PERIMETER OF EACH ACTIVE SOIL EXCAVATION AREA, RAILROAD TIE REMOVAL AREA, AND 01 LANDFILL CAPPING AREA. BONEYARD AREA DETAILS SHOWN.

(3) STORMWATER FLOW IN FORMER PLANT BUILDING AREA IS TO NEARBY EXISTING STORM DRAINS.

ARCADIS

SCALE VERIFICATION
THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

REV. NO.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: CC001231.0001	FILE NO:
DRAWING: SURFACE FLOW	PLOT SIZE: 1=1200
DRAFTED BY: DPL	DATE: 3/13/12
CHECKED BY: K. BRANDNER	DATE: 3/13/12
APPROVED BY: K. BRANDNER	DATE: 3/13/12

SITE MAP WITH SURFACE WATER FLOW DIRECTION AND LOCATION OF RUNOFF CONTROL FEATURES (UPDATED MAY 2012)

ENCYCLE/TEXAS INC.
CORPUS CHRISTI, TEXAS

FIGURE
6

Appendix A

Storm Water Outfall 002 Discharge Monitoring Report Form and TCEQ July 16, 2012 Letter

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: ENCYCLE TEXAS, INCORPORATED
ADDRESS: 555 N. CARANCAHUA STREET, SUITE 600
CORPUS CHRISTI, TX 78478

FACILITY: CORPUS CHRISTI PLANT
LOCATION: 5500 UPRIVER RODA
CORPUS CHRISTI, TX 78407

ATTN: MIKE BOUDLOCHE,TRUSTEE

TX0003191	002-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2011	TO	05/31/2011

DMR Mailing ZIP CODE: 78478
MAJOR
(SUBR 14)
STORMWATER - 002
External Outfall

No Discharge ☒

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6 MINIMUM	******	9 MAXIMUM	SU		Daily	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******					
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	45 DAILY MX	mg/L		Daily	GRAB
Arsenic, total (as As)	SAMPLE MEASUREMENT	******	******	******	******	******					
01002 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	.3 DAILY MX	mg/L		Daily	GRAB
Cadmium, total (as Cd)	SAMPLE MEASUREMENT	******	******	******	******	******					
01027 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	.3 DAILY MX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	******	******	******	******					
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	2 DAILY MX	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	******	******	******	******	******					
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	1.5 DAILY MX	mg/L		Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	******	******	******	******	******					
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	6 DAILY MX	mg/L		Daily	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Mike Boudloche, Chapter 7 Trustee	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with 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.	Mike Boudloche	361/883-5786 x402		06/15/11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SEE PAGE 2E OF PERMIT FOR ADDITIONAL REPORTING REQUIREMENTS.TPDES 00314

NATIONAL POLLUTANT DISCH[illegible] E ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: ENCYCLE TEXAS, INCORPORATED
ADDRESS: 555 N. CARANCAHUA STREET, SUITE 600
CORPUS CHRISTI, TX 78478

FACILITY: CORPUS CHRISTI PLANT
LOCATION: 5500 UPRIVER RODA
CORPUS CHRISTI, TX 78407

ATTN: MIKE BOUDLOCHE,TRUSTEE

TX0003191	002-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2011	TO	05/31/2011

DMR Mailing ZIP CODE: 78478
MAJOR
(SUBR 14)
STORMWATER - 002
External Outfall

No Discharge ☒

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Selenium, total (as Se)	SAMPLE MEASUREMENT	******	******	******	******	******					
01147 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	.3 DAILY MX	mg/L		Daily	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. DAILY AV	Req. Mon. DAILY MX	Mgal/d	******	******	******	******		Daily	INSTAN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Mike Boudloche, Chapter 7 Trustee	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with 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.	Mike Boudloche	361/883-5786 x402		06/15/11
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SEE PAGE 2E OF PERMIT FOR ADDITIONAL REPORTING REQUIREMENTS.TPDES 00314

Bryan W. Shaw, Ph.D., *Chairman*
Carlos Rubinstein, *Commissioner*
Toby Baker, *Commissioner*
Zak Covar, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 16, 2012

CERTIFIED MAIL 91 7199 9991 7031 0233 1309
RETURN RECEIPT REQUESTED

Mr. Mike Boudloche, Chapter 7 Trustee
Office of the United States Chapter 7 Trustee
555 N. Caranchua, Suite 600
Corpus Christi, TX 78478

Re: Notice of Enforcement for Reconnaissance (Recon) Investigations at:
Encycle Texas, Inc., 5500 Up River Rd., Corpus Christi (Nueces County), Texas;
RN101448769, TCEQ Permit No.: WQ0000314-000; EPA ID No.: TX0003191;
Investigation No. 1007053

Dear Mr. Boudloche:

On April 5 and 16 and May 11, 2012, Mr. Gerardo Arrambide, Ms. Dianne McCoig, and Ms. Barbara Beynon of the Texas Commission on Environmental Quality (TCEQ) Corpus Christi Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for stormwater discharge. During this investigation, certain outstanding alleged violations were documented. Enclosed is a summary which lists the investigation findings and recommended corrective actions. Additional recommended corrective actions may be provided by the Enforcement Division.

In the listing of the alleged violations, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled *Obtaining TCEQ Rules* (GI 032) are located on our agency website at http://www.tceq.state.tx.us for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the Corpus Christi Region Office at (361) 825-3100 or the Central Office Publications Ordering Team at 512-239-0028.

Also, please be advised that the Legislature has granted enforcement powers to the TCEQ to carry out its mission to protect human health and the environment. Due to the apparent seriousness of the alleged violations, formal enforcement action has been initiated, and additional violations may be cited upon further review. We encourage you to immediately begin taking actions to address the outstanding alleged violations.

In responding with prompt corrective action, the administrative penalty to be assessed may be limited.

The Commission recognizes that the great majority of the regulated community wants to prevent pollution and to comply with environmental laws. We dedicate considerable resources

toward making voluntary compliance achievable. But where compliance has not been met it is our duty to protect the public and the environment by enforcing the state's environmental laws, regulations, and permits.

Also, if you believe the violations documented in this notice have been cited in error, **and** you have additional information that we are unaware of, you may request a meeting to discuss this enforcement matter. To request a meeting, send a letter describing the additional information to the address shown below.

Manager, Water Section
Enforcement Division, MC 219
Re: Enforcement Meeting Request
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

If you or members of your staff have any questions, please feel free to contact Ms. Beynon in the Corpus Christi Region Office at (361) 825-3100.

Sincerely,

Kelly Ruble

Kelly Edward Ruble
Water Section Manager
Corpus Christi Region Office

KER/BEB/eym

Enclosure: Summary of Investigation Findings

Summary of Investigation Findings

ENCYCLE TEXAS
5500 UP RIVER RD
CORPUS CHRISTI, NUECES COUNTY, TX 78407

Investigation # 1007053
Investigation Date: 04/05/2012

Additional ID(s): TX0003191
WQ0000314000

OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF ENFORCEMENT

Track No: 468066 **Compliance Due Date: To Be Determined**
30 TAC Chapter 305.125(1)

PERMIT WQ0000314000, Eff. Lim. & Mon. Req. Outfall 002 No. 1
Permit requires that Outfall 002 be monitored once per day when discharging for the following parameters: Flow, Total Suspended Solids, Total Arsenic, Total Cadmium, Total Copper, Total Lead, Total Selenium, and Total Zinc. pH is to be monitored once per day when discharging and is to be between 6.0 and 9.0 standard units. All samples shall be collected within the first hour of discharge and each subsequent day that the discharge continues.

Alleged Violation:
Investigation: 1007053 Comment Date: 07/05/2012

Failed to monitor the effluent discharge concentrations from Outfall 002 as required by permit WQ00000314-000. The Bankruptcy Trustee did not monitor Outfall 002 on April 16, 2012, and May 11, 2012.

Recommended Corrective Action: The Respondent shall begin the required monitoring: Outfall 002 must be monitored once per day when discharging for the following parameters: Flow, Total Suspended Solids, Total Arsenic, Total Cadmium, Total Copper, Total Lead, Total Selenium, and Total Zinc. pH must be monitored once per day when discharging and is to be between 6.0 and 9.0 standard units. All samples must be collected within the first hour of discharge and each subsequent day that the discharge continues.

Track No: 468068 **Compliance Due Date: To Be Determined**
30 TAC Chapter 305.125(1)

PERMIT WQ0000314000, Eff. Limit. and Mon. Req. Outfall 002
Single grab permit limitation for TSS is 45 mg/l when discharging. The sample shall be taken during the first hour of the discharge.

Alleged Violation:
Investigation: 1007053 Comment Date: 07/03/2012

Failed to meet the permit limitation for Total Suspended Solids (TSS) on April 16, 2012. The sample collected by Region 14 personnel had a TSS concentration of 61 mg/l, and the permit limitation was 45 mg/l. Although the May 11, 2012, TSS concentration of 44 mg/l was below the permit limitation, the sample was not collected within the first hour of discharge; therefore, this violation was not resolved.

Recommended Corrective Action: Monitor and report the TSS concentrations during each discharge event. The TSS concentration must be compliant with the permit limitation of 45 mg/l. The sample shall be taken during the first hour of discharge from Outfall 002 and each day that the discharge continues.

Track No: 468370 **Compliance Due Date: To Be Determined**
30 TAC Chapter 305.125(1)

PERMIT WQ0000314000, Eff. Limit. and Mon. Req. 1. (page 2e)
During the period beginning upon the date of issuance and lasting through expiration, the permittee is authorized to discharge storm water runoff subject to permitted effluent limitations.

Alleged Violation:

Investigation: 1007053 Comment Date: 07/05/2012

Failed to prevent the unauthorized discharge of a nonpermitted wastewater source through Outfall 002.

As part of the scope of work for the demolition project, the issue of fugitive dust emissions from the site were a high concern. Best Management Practices for dust suppression was spraying the demolition area with water.

TCEQ Superfund personnel reported anecdotally that the bills for the dust suppression water are high, meaning that large amounts of water are being used. The excess water drains through the storm sewer system into the stormwater lagoons, which then discharge via Outfall 002. During the time that the demolition project occurred in 2011 and 2012, the local area experienced a prolonged drought; yet water levels in the stormwater lagoons rose. Since little rain had fallen, the source of the rising water has to be from dust suppression activities. Outfall 002 is authorized by the permit to only discharge stormwater.

Recommended Corrective Action: The Respondent must ensure that only stormwater is discharged through Outfall 002.

Track No: 468372 **Compliance Due Date: To Be Determined**

30 TAC Chapter 305.125(1)
30 TAC Chapter 319.4
30 TAC Chapter 319.5

PERMIT WQ0000314000, Mon. and Rep. Reqirements 1.
Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC Chapters 319.4- 319.12. A monthly effluent report shall be submitted each month to the location(s) specified on the reporting form or instruction sheet, by the 20th day of the following month for each discharge which is described by this permit whether or not a discharge is made for that month.

Alleged Violation:

Investigation: 1007053 Comment Date: 07/03/2012

Failed to submit the Discharge Monitoring Reports for Outfall 002 for the monitoring periods ending July 31, 2011; August 31, 2011; September 30, 2011; October 31, 2011; November 30, 2011; December 31, 2011; January 31, 2012; February 29, 2012; March 31, 2012; April 30, 2012; and May 31, 2012.

Effluent monitoring data are required to be submitted by the 20th day of the month following the monitoring period end date.

Recommended Corrective Action: Submit the required Discharge Monitoring Reports to the Compliance and Monitoring Section of the Enforcement Division.

Appendix B

Site Notice

Attachment 3

LARGE CONSTRUCTION SITE NOTICE

FOR THE
Texas Commission on Environmental Quality (TCEQ)
Storm Water Program

TPDES GENERAL PERMIT TXR150000

"SECONDARY OPERATOR" NOTICE

This notice applies to secondary operators of construction sites operating under Part II.E.3. of the TPDES General Permit Number TXR150000 for discharges of storm water runoff from construction sites equal to or greater than five acres, including the larger common plan of development. The information on this notice is required in Part III.E.2. of the general permit. Additional information regarding the TCEQ storm water permit program may be found on the internet at: **http://www.tceq.state.tx.us/nav/permits/sw_permits.html**

Site-Specific TPDES Authorization Number:	
Operator Name:	
Contact Name and Phone Number:	
Project Description: *Physical address or description of the site's location, and estimated start date and projected end date, or date that disturbed soils will be stabilized.*	
Location of Storm Water Pollution Prevention Plan (SWP3):	

For Large Construction Activities Authorized Under Part II.E.3. (Obtaining Authorization to Discharge) the following certification must be completed:

I _____ (Typed or Printed Name Person Completing This Certification) certify under penalty of law that I have read and understand the eligibility requirements for claiming an authorization under Part II.E.2. of TPDES General Permit TXR150000 and agree to comply with the terms of this permit. A storm water pollution prevention plan has been developed and will be implemented prior to construction, according to permit requirements. A copy of this signed notice is supplied to the operator of the MS4 if discharges enter an MS4. I am aware there are significant penalties for providing false information or for conducting unauthorized discharges, including the possibility of fine and imprisonment for knowing violations.

Signature and Title_____ Date _____

_____*Date Notice Removed*
_____*MS4 operator notified per Part II.F.3.*

Appendix C

Record of SWP3 Changes

Record of SWP3 Changes

Date of Change	Page or Section Affected	Nature of Change	Change Authorized By

Appendix D

Record of Major Construction Events

Record of Major Soil Excavation Events

Use this table to document dates of major soil excavation commences and when soil excavation backfilling activities temporarily or permanently cease on a portion of the site.

Date of Event	Nature of Event	Event Authorized By

Appendix E

Inspection Report

BEST MANAGEMENT PRACTICE (BMP)
INSPECTION REPORT

Inspection Type: ☐Routine Daily ☐Routine Weekly

☐Pre-Rain ☐During Rain ☐Post Rain

Date: _____ For Week Ending (for routine inspections): _____

Weather: _____ Date of Last Storm: _____

Inspected By: _____ _____
Print Name Title

_____
Signature

General BMP and Site Conditions

Check "Yes" "No" or "N/A" if not applicable.

No.	Description	Yes	No*	N/A
1	Are the project SWPPP and BMP plan up to date, available on-site and being properly implemented?			
2	Are BMPs being maintained properly?			
3	Are sediment controls in place at downstream locations and storm drain inlets?			
4	Are all discharge points free of any noticeable pollutant discharges?			
5	Is sediment, debris, or mud being cleaned from public roads where they intersect with site access roads?			
6	Are all soil stockpiles or construction materials located in approved areas and protected from erosion?			
7	Are dust control measures being appropriately implemented?			
8	Are all materials and equipment properly covered?			
9	Are all material handling and storage areas clean and free of spills, leaks, or other deleterious materials?			
10	Are hazardous materials and wastes properly stored, including being covered and stored within berms to provide secondary containment?			
11	Are all equipment storage and maintenance areas clean and free of spills, leaks, or any other deleterious materials?			
12	Are all on-site traffic routes, parking, and storage of equipment and supplies restricted to designated areas?			
13	Are all sediment barriers, clean and functioning properly?			
14	Are all erosion control devices in-place and functioning in accordance with the erosion control plan?			
15	Are all exposed slopes protected from erosion through the implementation of acceptable soil stabilization practices?			
16	Are any non-storm water discharges being properly controlled and monitored?			

*If any answer is "no", describe needed correction(s) on a separate page. Indicated location of needed correction(s) along with the date corrections are made.

Inspector:
Date:

Individual BMP Inspection Record

BMP you are inspecting:_____

Condition of the BMP:_____

What maintenance or repairs need to be performed on the BMP?_____

_____

When will repair or maintenance of this BMP be complete?_____

_____

Other comments: _____

_____

BMP you are inspecting:_____

Condition of the BMP:_____

What maintenance or repairs need to be performed on the BMP?_____

_____

When will repair or maintenance of this BMP be complete?_____

_____

Other comments: _____

_____

BMP you are inspecting:_____

Condition of the BMP:_____

What maintenance or repairs need to be performed on the BMP?_____

_____

When will repair or maintenance of this BMP be complete?_____

_____

Other comments: _____

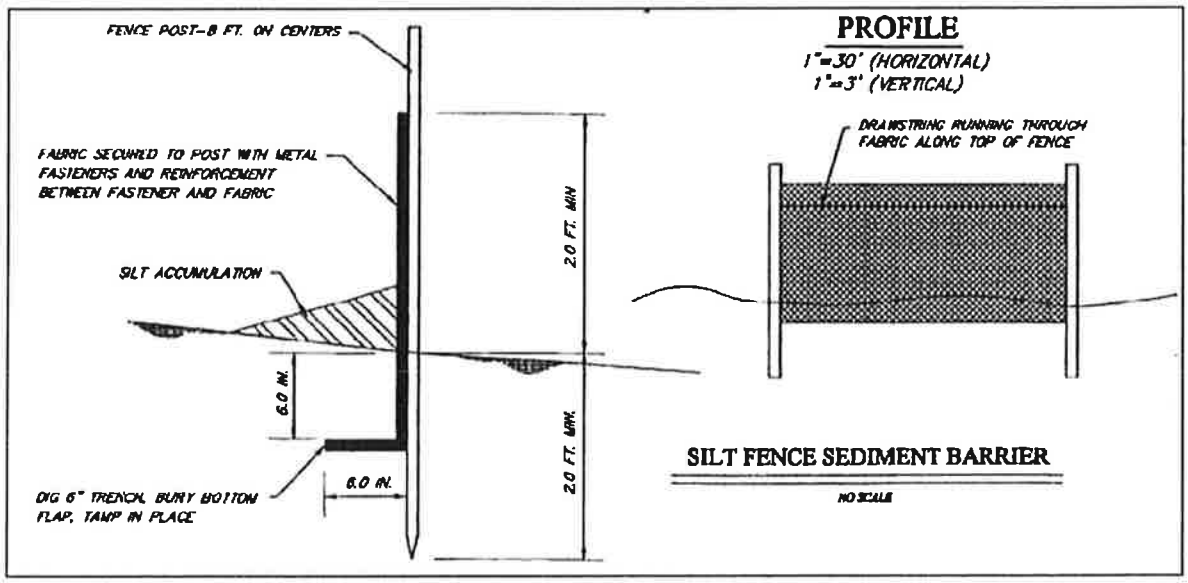
_____

Copy this page as needed for additional BMPs

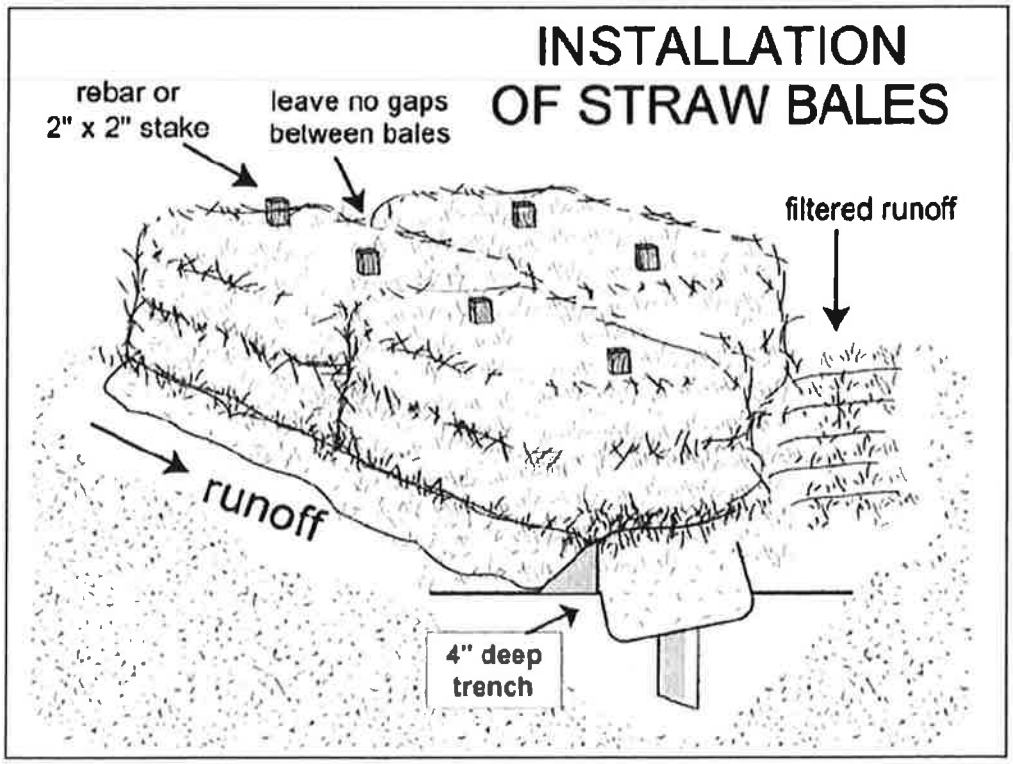
Appendix F

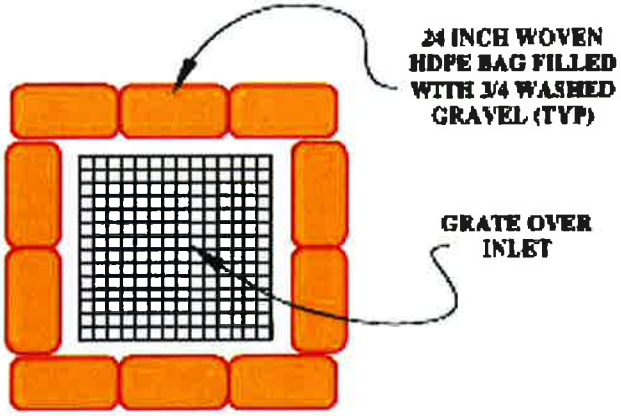
BMP Installation Diagrams

Proper Installation of a Silt Fence



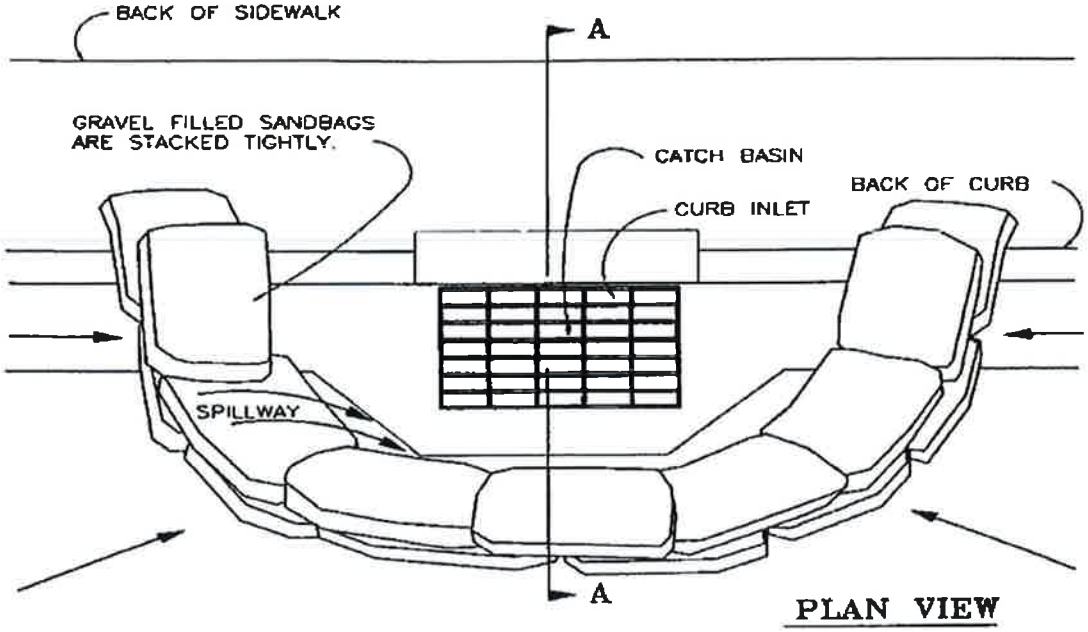
Proper Installation of Straw Bale Barrier

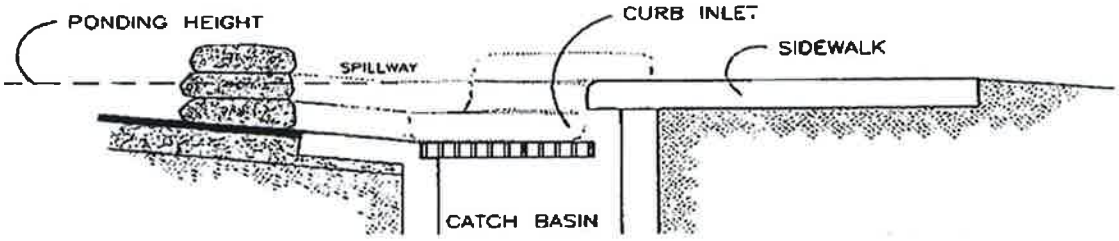


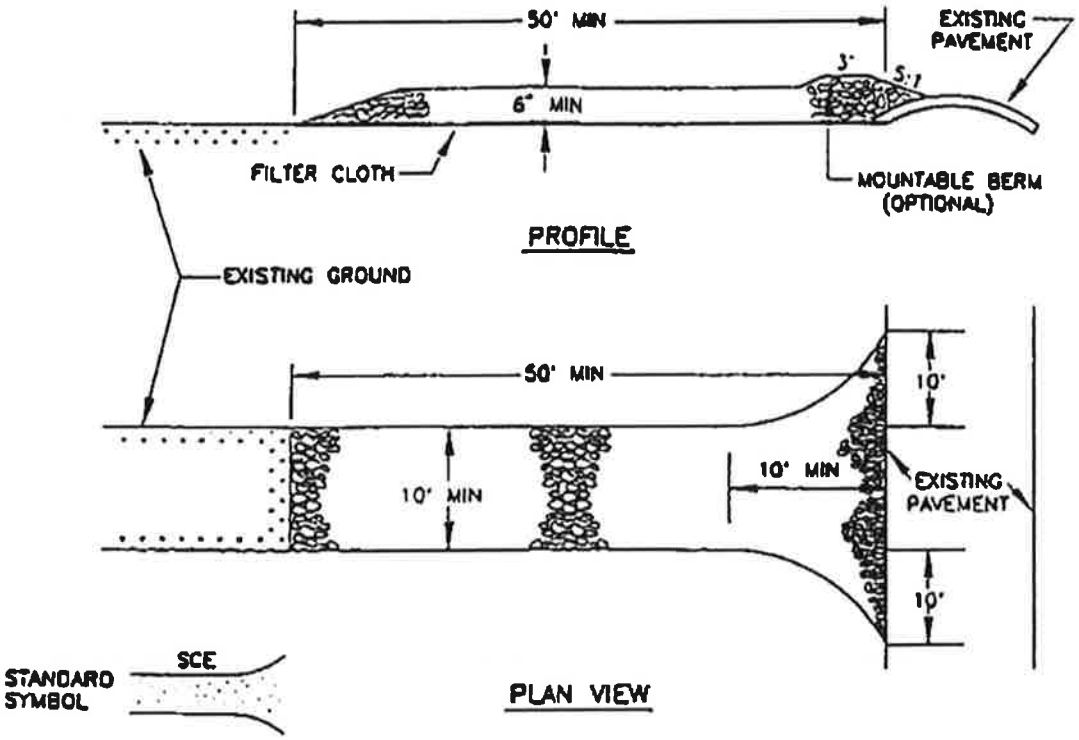


CATCH BASIN PROTECTION PLAN VIEW

Installation of Inlet Protection Devices







Installation of Stabilized Project Entrance