

**130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ REGISTRATION NO. MSW _____**

TYPE V REGISTRATION APPLICATION

**PART IV
SITE OPERATING PLAN**

Prepared for

130 ENVIRONMENTAL PARK, LLC

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(Reserved)

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8/30/2013

LIST OF ACRONYMS

CFR - Code of Federal Regulations

DOT - Department of Transportation

EPA - U.S. Environmental Protection Agency

MSW - Municipal Solid Waste

NRACM - non-regulated asbestos-containing material

OSHA - Occupational Health and Safety Administration

PCBs - polychlorinated biphenyls

POTW - publicly-owned treatment works

RACM - regulated asbestos-containing material

RCRA - Resource Conservation Recovery Act

SDP - site development plan

SOP - site operating plan

TAC - Texas Administrative Code

TCEQ - Texas Commission on Environmental Quality

TXDOT - Texas Department of Transportation

WWTP - wastewater treatment plant

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1 INTRODUCTION

(30 TAC §§330.65 and 330.201)

This Site Operating Plan (SOP) has been prepared for the proposed 130 Environmental Park consistent with 30 TAC §330.65, contains the information required by §330.201, and creates a site operating plan to be included in the proposed Type V MSW registration documents. This SOP includes provisions for facility management and facility operating personnel to meet the general and facility-specific requirements included in Subchapter E: Operational Standards for Municipal Solid Waste Storage and Processing Units for the day-to-day operation of the facility. This SOP will be retained at the facility throughout the active life of the facility until after certification of closure.

130 Environmental Park includes a proposed Type V municipal solid waste management facility owned and operated by 130 Environmental Park, LLC.

The proposed transfer station is located outside the extraterritorial jurisdiction and city limits of Lockhart, Texas and will be located approximately 1,500 feet north of the intersection of US Highway 183 (US183) and Farm to Market 1185 (FM1185), east of State Highway 130 (SH130), in Caldwell County, Texas.

The transfer station will accept waste from public and private waste hauling vehicles and the public, then transfer this waste into transfer trucks for hauling and disposal at a properly permitted Type IV municipal solid waste landfill. The transfer station will accept only construction or demolition waste and inert material limited to brick and concrete. The support facilities for the proposed transfer station include the facility entrance road.

This SOP provides guidance for facility management and facility operating personnel for daily operation of the transfer station. This SOP also includes provisions for facility management and facility operating personnel to meet the general and facility-specific requirements for the waste acceptance rate established in the registration.

2 WASTE ACCEPTANCE AND ANALYSIS

(30 TAC §§330.203 and 330.205)

2.1 Properties and Characteristics of Waste

The classification of solid waste to be accepted at the transfer station is construction and demolition wastes.

The transfer station will not accept household waste, special wastes, or industrial wastes. The waste classifications are defined in §330.3.

Consistent with §330.15, the facility will not accept lead acid storage batteries; used motor vehicle oil; used oil filters; whole used or scrap tires; refrigerators, freezers, air conditioners or other items containing chlorinated fluorocarbons (CFC); bulk or non-containerized liquid waste from non-household sources; regulated hazardous waste; polychlorinated biphenyls (PCB) waste; radioactive materials; or other wastes prohibited by TCEQ regulations.

The facility has been designed and will be operated to handle the acceptable wastes. The procedures for the acceptance of wastes are discussed in Section 7.2.

2.2 Volume and Rate of Transfer

The transfer station will serve the individuals and public and private collection vehicles from Caldwell and surrounding counties. The facility anticipates an initial volume of 50 tons per day increasing to a maximum waste acceptance rate of approximately 94 tons of incoming municipal solid waste to be operated for recycling and/or transferred to properly permitted Type IV municipal solid waste facilities. As economic conditions, population growth, and waste generation rates change, the volume of incoming waste processed at the transfer station could increase or decrease but will not exceed the maximum amount of 94 tons per day.

The transfer station has been designed to accommodate a maximum of 94 tons per day. As the rate of incoming waste increases, transfer operations will be adjusted to accommodate additional transfer vehicles.

The transfer station operation is designed to transfer all solid waste to the landfill on the same day it is received. The maximum amount of waste and recyclables to be stored at one time inside or outside the transfer station building will not exceed 100 tons. The combined total waste and recyclables inside the transfer station building and tarped in transfer trailers and/or roll-off boxes will not exceed 100 tons.

The average length of time that waste will remain at the facility is approximately 24 hours. The maximum time waste material will be stored in the transfer station will not exceed 48 hours, except holidays and weekends, as discussed in Section 7.10. During holidays and/or

weekends, waste may be temporarily stored at the facility not to exceed a time period of 72 hours.

If waste is stored, it will be stored in the transfer station building or in securely covered transfer trailers and/or roll-off boxes located within the building or parked in the designated parking area outside the building. If accumulations occur, additional waste materials will not be received until the adverse conditions are abated.

The transfer trailers and/or roll-off boxes, if stored outside, will be covered with tarps to prevent accumulation of rainfall and contaminated water generation. The transfer trailers and/or roll-off boxes will be located over paved roads; cross-sectional details of the paved roads are included in Part III, Appendix IIIB.

The destination of the solid waste collected by the facility will be a properly permitted Type IV municipal solid waste facility. 130 Environmental Park may be utilized for Type IV disposal. Other disposal facilities may also be used for disposal, as necessary. The intended destination of the contaminated water generated by the facility is the contaminated water storage tank located outside the transfer station building. Contaminated water management is discussed in Section 3.

The transfer station will maintain documentation at the facility that all wastes leaving the facility are being adequately managed by other licensed or permitted facilities. All wastes generated by the transfer station will be processed or disposed of at an authorized solid waste management facility.

3 CONTAMINATED WATER MANAGEMENT

30 TAC §§330.203, 330.205, and 330.207

The transfer station will take the steps necessary to control and prevent the discharge of contaminated water from the facility. All liquids resulting from the operation of the transfer station will be disposed of in order to not cause surface water or groundwater pollution. Contaminated water generated by the transfer station will consist of wash water resulting from wash water applied to the tipping floor. This wash water will be directed through a sand/grit trap prior to entering the contaminated water storage tank located outside of the transfer station building; the contaminated waste storage tank is sized to provide one month of storage based on the calculation in Part III, Appendix IIIA, Section 4. The contaminated water will then be transported offsite on a monthly basis, at a minimum, for treatment, testing, and disposal at a publicly owned treatment works (POTW) or a properly permitted treatment facility in accordance with its sampling and analysis plan. Transportation of the contaminated water will be via tanker truck. Copies of the disposal agreements with the POTW or the commercial treatment facility will be placed in the operating record prior to transporting and treating.

The facility will only accept construction and demolition debris. The facility will not accept municipal solid waste, special wastes, industrial wastes, or liquid wastes.

Contaminated water discharged to the POTW or treatment facility, permitted under Texas Water Code, Chapter 26, will not interfere with or pass through the treatment facility processes or operations; will not interfere with or pass through the facility's sludge processes, use, or disposal; and will otherwise be consistent with the prohibited discharge standards, including 40 CFR Part 403, General Pretreatment Regulations of Existing and New Source Pollution.

The daily effluent design standard for oil and grease concentration leaving the facility and entering a public sewer system will not exceed the concentration established in the wastewater discharge permit pretreatment limit or the concentration established by the treatment facility permitted under Texas Water Code 26 and the TPDES. Effluent from the facility will be analyzed annually for TPH, fats, oil and grease, and pH. Records of each analysis will be maintained at the facility for a minimum of three years. All sampling and analysis will be completed according to EPA approved methods.

Should the discharge of contaminated water become necessary, the facility will obtain specific written authorization from the Texas Pollutant Discharge Elimination System authority prior to discharge. All water coming in contact with waste will be treated as wash water. The transfer station will be operated consistent with §330.15(h)(1)-(4) regarding discharge of solid wastes or pollutants into waters of the United States.

Uncontaminated storm water run-on and run-off will be directed away from the transfer station building entrances by site grading. The transfer station will be free from on-site run-on since the transfer station building will be completely covered.

4 STORAGE REQUIREMENTS

30 TAC §§330.209 and 330.213

4.1 Solid Waste Storage

The transfer station will only accept construction or demolition wastes and other inert wastes. All solid waste entering the transfer station will be stored indoors or inside the closed transfer trailers or roll-off boxes awaiting transport. Transfer trailers and roll-off boxes will be tarped if stored outside. All solid waste will be stored in a manner to prevent fires, ensure safety, control animals, control vectors, and contained to prevent windblown solid waste and litter. Odor control procedures are included in Section 7.12.1 and windblown waste control procedures are included in Section 7.6.

4.2 Approved Containers

All solid waste entering the transfer station will be transferred from the tipping floor to the transfer trailers or roll-off boxes. The transfer trailers and roll-off boxes will be equipped with tarps to cover and close the trailer during transport. In addition, the trailers and roll-off boxes will be designed to prevent spillage or leakage during storage, handling, or transport.

The transfer trailers and roll-off boxes will be maintained in a clean condition. The transfer trailers and roll-off boxes will be washed as necessary so that they do not constitute a nuisance and to retard the harborage, feeding, and propagation of vectors.

5 RECORDKEEPING AND REPORTING REQUIREMENTS

30 TAC §§330.219

5.1 Documents

The transfer station will maintain the operating record for the facility on site. Consistent with §330.219(a), documents that are part of the approved registration process that are considered part of the operating record for the facility are listed in Table 5-1.

These documents will be made available for inspection by TCEQ representatives or other interested parties.

5.2 Analytical Data

The transfer station, in accordance with §330.219(b), will promptly record and retain in the operating record any and all records for those items listed in Table 5-1.

5.3 Report Signatories

130 Environmental Park, LLC, or an authorized representative of the transfer station, will sign all reports and other information requested by the executive director as described in §305.44(a). For a person to be an authorized representative of the transfer station, the authorization must: (1) be made in writing as described in §305.44(a), (2) specify either an individual or a position having responsibility for the overall operation of the transfer station, and (3) be submitted in writing to the executive director.

If an authorization is no longer accurate because of a change in individuals or position, a new authorization must be submitted to the executive director prior to or with any submittal to be signed by an authorized representative. Any person signing a report will make the certification included in §305.44(b).

5.4 Notification

The transfer station, in accordance with §330.219(e), will furnish the operating record to the executive director upon request, and it will be made available at all reasonable times at the facility for inspection by the executive director.

5.5 Record Retention

The transfer station, in accordance with §330.219(f), will retain all information contained within the operating record of the facility and all plans required for the facility for the life of the facility until after certification of closure.

5.6 Alternative Schedules

The executive director, in accordance with §330.219(g), may set alternative schedules for recordkeeping and notification requirements as specified in §330.219(a)-(e).

5.7 Personnel Training Records and Licenses

The transfer station will maintain personnel training records. Personnel training requirements will be consistent with Section 8 - Personnel and Training of this Site Operating Plan. Personnel training records for current facility personnel will be maintained until closure of the facility. Records of former employees will be maintained for three years from the date the employee last worked at the facility. Records of the job title for each position at the transfer station related to transfer operations, and the name of the employee filling each job will be maintained at the facility. Records for each employee will include name, job title, job description, introductory training, continuing training, and documentation of training. The facility will maintain operator licenses for municipal solid waste supervisors as required by 30 TAC Chapter 30, Subchapter F. Personnel training records and personnel operator licenses will be maintained in the operating record as listed in Table 5-1.

5.8 Annual Waste Acceptance Rate

As listed in Table 5-1, the facility shall maintain records to document the annual waste acceptance rate for the facility. Documentation must include maintaining the quarterly solid waste summary reports and the annual solid waste summary reports required by 30 TAC §330.675 in the operating record.

**Table 5-1
Records to be Maintained in the
Operating Record**

Records to be Maintained in the Operating Record	Frequency	Rule Citation
Municipal Solid Waste Registration No. _____	Submittal of Registration Application	§330.219(a)
Approved registration application for MSW Registration No. _____	Submittal of Registration Application	§330.219(a)
Site Operating Plan	Submittal of Registration Application	§330.219(a)
As-built set of construction plans and specifications	After completion of construction	§330.219(a)
Other required plans or related documents	As required	§330.219(a)
All location restriction demonstrations	Submittal of Registration Application	§330.219(b)(1)
Inspection records and training procedures	Per occurrence	§330.219(b)(2)
Closure plans and any monitoring, testing, or analytical data relating to closure requirements	As required	§330.219(b)(3)
Cost estimates and financial assurance documentation relating to closure	Annually	§330.219(b)(4)
Correspondence and responses relating to facility operation, registration modifications, approvals, and technical assistance	Per occurrence	§330.219(b)(5)
All documents, manifests, shipping documents, trip tickets, etc., involving special waste	Per occurrence	§330.219(b)(6)
Any other documents specified in the registration or by the executive director	As required	§330.219(b)(7)
Trip tickets as required by §312.145(b)(2)	Per occurrence (retained for 5 years)	§330.219(b)(8)
Dates, times, and durations of alternative operating hours (e.g., if not as stated in Section 7.4)	As required	§330.229(d)
Inspection records and training procedures relating to fire prevention and facility safety	As needed	§330.221(c)
Personnel training records and detailed job descriptions	As needed	§330.219(b)(2)
Records to document the annual waste acceptance rate including the annual solid waste summary report	Annually	§330.675
Load inspection records	Per occurrence	§330.225
Personnel operator licenses	As needed	§30
All facility inspection and maintenance documentation noted in Section 7.15 – Facility Inspection and Maintenance Schedule	As required	§§330.223-330.243
A record of each unauthorized material removal event	Per occurrence	§330.225
Documentation that all wastes leaving the facility are being adequately managed by other licensed or permitted facilities	As needed	§330.205(a)

6 FIRE PROTECTION PLAN

30 TAC §§330.221

6.1 Fire Prevention Procedures

The following steps will be taken regularly by designated transfer station personnel to prevent fires:

- Open burning of waste is prohibited.
- Burning waste from incoming waste loads will be prevented from being dumped in the active area of the transfer station. The attendant stationed at the transfer station and equipment operators will be alert for signs of burning waste such as smoke, steam, or heat being released from incoming waste loads. The vehicle will be directed to an area outside the building where waste can be safely discharged, isolated, and the fire extinguished. Upon extinguishing the fire, the waste will be immediately moved inside the transfer station building.
- Fuel spills will be contained and cleaned up immediately.
- Smoking is not allowed in the working areas of the transfer station. Smoking is confined to designated areas only, away from the active tipping areas, fuel stations, and other fire-sensitive areas.
- The facility will be equipped with fire extinguishers of a type, size, location, and number as recommended by the local fire department. Each fire extinguisher will be fully-charged and ready for use at all times. Each extinguisher will be inspected on an annual basis and recharged as necessary. These inspections will be performed by a qualified service company, and all extinguishers will display a current inspection tag. Inspection and recharging will be performed following each use. At a minimum, all transfer station equipment and vehicles will be equipped with fire extinguishers, and two fire extinguishers will be located in the transfer station building.
- An adequate supply of water under pressure will be available for firefighting purposes. Either a local water source or trucked in water will be used to supply water to a water supply tank located adjacent to the transfer station. The water supply tank will be connected to a pump system that will convey water under pressure to a standpipe and hose reel located within the transfer station building. The tank will have a minimum capacity of 15,000 gallons, and a minimum of 10,000 gallons of water will be maintained in the tank at all times. The pump system will have a minimum capacity of 500 gpm, consistent with a Class III system as specified under National Fire Protection Association (NFPA) fire codes. The water supply and pump system are specified in NFPA 14 – Standard for the Installation of Standpipes and Hose Systems and NFPA 22 – Standard for Water Tanks for Private Fire Protection.

- Firefighting and protection equipment at the transfer station will be installed as required by all applicable fire code provisions at the time the facility is constructed.

6.2 General Rules for Fires

The following rules will be implemented in the event of a fire at the transfer station:

- Contact the Fire Department by calling 911.
- Immediately contact the facility manager.
- Equipment operators will be equipped with two-way radios or cell phones.
- Alert other facility personnel.
- Assess extent of fire, possibilities for the fire to spread, and alternatives for extinguishing the fire.
- If it appears that the fire can be safely fought with available fire-fighting devices until arrival of the Fire Department, attempt to contain or extinguish the fire.
- Upon arrival of Fire Department personnel, direct them to the fire and provide assistance as appropriate.
- Do not attempt to fight the fire alone.
- Do not attempt to fight the fire without adequate personal protective equipment.
- Be familiar with the use and limitations of firefighting equipment available onsite.
- Firefighting methods include separating burning material from other waste and spraying with water from the wash down hoses. If detected soon enough, a small fire may be fought with a hand-held fire extinguisher. Fire extinguishers will be located in the transfer station and on each piece of equipment. Under this circumstance, the fire area should be watered or otherwise controlled to ensure that the fire is extinguished.

6.3 Specific Fire-Fighting Procedures

The following procedures will be followed in the event of a fire:

- If a fire occurs on a vehicle or piece of equipment, the equipment operator should bring the vehicle or equipment to a safe stop. If safety of personnel will allow, the vehicle must be parked outside of the facility away from fuel supplies, solid wastes, and other vehicles. The engine should be shut off and the brake engaged (or other methods implemented) to prevent movement of the vehicle or

piece of equipment. Fire extinguishers should be used to extinguish fire if possible, without risk to equipment operator.

- If a fire is on the tipping floor, the burning area should be isolated and pushed away from the other waste quickly. The burning area should be sprayed with water from the wash down hoses or if small enough extinguished with a hand-held fire extinguisher.
- If burning waste materials are discovered after having been unloaded at the transfer station, the load will be extinguished with water or by fire extinguisher, as appropriate.
- Use the fire extinguishers located in the transfer station or the wash down hoses to extinguish a fire, as appropriate.

6.4 Fire Protection Training

All transfer station personnel will be trained in the contents of Section 6 – Fire Protection Plan. Training will be conducted annually. The following topics will be addressed:

- Fire Prevention
- Fire Safety
- Fire-Fighting Procedures

6.5 TCEQ Notification

The transfer station will make every reasonable effort to contact the TCEQ regional office immediately upon detection of a fire, if the fire is not extinguished within ten minutes of detection. At a minimum, the TCEQ regional office will be contacted no later than four hours after detection by phone, and in writing within 14 days. The notification will include a description of the fire and resulting response.

7 OPERATIONAL PROCEDURES

30 TAC §330.223 through §330.249

7.1 Access Control

The site entrance to the 130 Environmental Park will be located approximately 1,500 feet north of the intersection of US183 and FM1185, east of SH130.

7.1.1 Facility Security

Facility security measures are designed to prevent unauthorized persons from entering the facility, to protect the facility and its equipment from possible damage caused by trespassers, and to prevent disruption of facility operations caused by unauthorized facility entry.

Unauthorized entry into the facility will be minimized by controlling access to the transfer station with the perimeter fence. The property will be fenced at the transfer station's facility boundary with perimeter fencing on all sides. Perimeter fencing will consist of either a four-foot barbed wire fence or a six-foot chain link fence or equivalent. A lockable gate will be located on the entrance road. The gate will be constructed of barbed wire, chain link, woven wire, pipe fencing or other suitable materials.

The operating area of the transfer station will be located within a mostly enclosed facility. Entrance to the facility will be monitored by an attendant stationed at the transfer station during facility operating hours. Entry to the transfer station will be restricted to designated personnel, appropriate subcontractors, approved waste haulers, the public, TCEQ personnel, and properly identified persons whose entry is authorized by facility management. Visitors may be allowed in the transfer station only when accompanied by a facility representative.

7.1.2 Traffic Control

Access to the transfer station will be provided via the entrance road from US183. The entrance road has been designed for the traffic flow to be experienced by the transfer station. Signs will be located along the entrance road directing traffic to the transfer station.

Solid waste collection vehicles will be directed to the processing areas by signs located along the entrance road. These vehicles will deposit their loads at the transfer station and depart the facility. Transfer trucks will be directed to the waste-loading area. Facility personnel will provide traffic directions as necessary to facilitate safe movement of vehicles.

Within the facility, signs will be placed along the entrance road at a frequency adequate to guide users to the proper transfer station areas and which roads are to be used. Roads not being used for access will be blocked or otherwise marked for no entry.

Adequate turning radii for the vehicles utilizing the facility have been provided to maintain normal traffic flow.

Adequate vehicle parking is provided for equipment, employees, and visitors at the facility.

7.2 Unloading of Waste

The categories of wastes that are prohibited at this facility by state and federal regulations are discussed in Section 2.1 of this SOP.

Trained personnel will monitor the incoming waste on the trucks at the unloading areas. These personnel will be familiar with the rules and regulations governing the various types of waste that can or cannot be accepted into this facility, including knowledge of §330.171 and §330.173. The personnel will also have a basic understanding of both industrial and hazardous waste and their transportation and disposal requirements. Trained personnel at the tipping floor will be on-duty during waste acceptance hours to observe all waste unloading.

Trained personnel at the tipping floor will have the authority and responsibility to reject loads which contain prohibited wastes. The personnel will also have the authority to have prohibited waste removed by the waste haul vehicle or transporter, immediately upon discovery. Trained personnel at the tipping floor will immediately notify the facility manager of suspected prohibited waste. The facility manager will direct transfer station personnel to remove or manage prohibited waste appropriately. The facility manager may assess appropriate surcharges to the waste hauler, transporter, or generator.

Any prohibited waste that is not discovered by the operators until after it is unloaded shall be returned to the vehicle that delivered the waste. That party shall be responsible for the proper disposal of this rejected waste. In the event the unauthorized waste is not discovered until after the vehicle that delivered it is gone, the waste shall be segregated and controlled as necessary. An effort shall first be made to identify the entity that deposited the prohibited waste and have them return to the facility and properly dispose of the waste. In the event that identification is not possible, the transfer station will notify the TCEQ and seek guidance on how to dispose of the waste.

The unloading of solid waste in unauthorized areas is prohibited. Solid waste unloading will be controlled to prevent dumping in locations other than those specified by facility management. Load inspections will be conducted as outlined in Section 7.2.1 of this SOP. Any waste deposited in an unauthorized area will be promptly removed and placed on the tipping floor. Control will also be used to confine the working area to a minimum width consistent with the rate of incoming waste, while allowing for safe and efficient operation.

Signs with directional arrows and portable traffic barricades will help to restrict traffic to the designated unloading location. Signs will be placed along the entrance road to the unloading area. In addition, rules for waste unloading and prohibited waste will be prominently displayed on signs at the facility entrance.

7.2.1 Load Inspection Procedure

A properly trained qualified facility staff person will visually inspect all incoming waste loads. Should any indication of prohibited waste be detected, appropriate facility personnel will stop unloading of the vehicle to allow facility personnel to conduct a thorough evaluation of the load. The driver will be directed to a load inspection area, where the load will be discharged from the vehicle. The load inspector will separate the waste pile and inspect the material for any prohibited waste. Known prohibited waste will be placed back into the vehicle and the driver will be instructed to depart the facility. Should any regulated hazardous waste be detected, the entire load will be refused. (Refer to Appendix IVA for a copy of a sample load inspection report form.)

7.3 Spill Prevention and Control

The tipping floor has been designed to control and contain spills and contaminated water from leaving the facility. The tipping floor is sloped, of sufficient size, and contains a floor drain to control and contain a worst case release of contaminated water inside the transfer station building. Contaminated water generated by the transfer station will consist of wash water applied to the tipping floor. This wash water will be directed through a sand/grit trap and enter the 5,500 gallon contaminated water storage tank located outside of the transfer station building. The 5,500 gallon contaminated water storage tank will be installed within a concrete pad enclosed by a wall for secondary containment.

The proposed facility will be authorized to discharge storm water runoff from the site in accordance with the Texas Pollutant Discharge Elimination System (TPDES) Multi-Sector General Permit No. TXR050000. Prior to commencement of operations, a Stormwater Pollution Prevention Plan and Notice of Intent will be prepared to address coverage under the general permit and specific aspects of the facility operation, including spill prevention and control. The following procedures for the control of any spills that may occur will be included:

- Make available to facility personnel materials and equipment necessary for spill control and clean-up. Such materials and equipment will be maintained at the transfer station building or other suitable location. An inventory of spill control/clean-up materials and equipment will be maintained with said materials/equipment. At a minimum, spill control/clean-up materials and/or equipment will include:
 - a. Spill absorbent (i.e., speedi-dri, etc.)
 - b. Scoops, shovels, brooms, bags, and drums
 - c. Spill wipe pads
 - d. Portable oil booms/dikes
 - e. Spill pillows
 - f. Personal protective equipment (neoprene gloves, boots, and goggles)
- In the event of a spill outside of the transfer station building, immediately notify the transfer station manager and promptly control/clean up the spill using the following procedures:

- a. Clear the area of all unnecessary personnel
- b. Rope-off and/or barricade the spill area to prevent entry of unauthorized personnel
- c. Put on appropriate protective equipment, such as gloves, boots, etc.
- d. If safe to do so, initiate action to stop the source of the spill by closing a valve, stopping a pump, etc.
- e. If safe to do so, contain/clean-up the spill using absorbent materials, dikes, booms, and other appropriate equipment and materials

7.4 Operating Hours

The transfer station will be authorized for waste acceptance from 7:00 a.m. to 7:00 p.m., Monday through Friday, and 7:00 a.m. to 12:00 p.m. on Saturday. The facility will be closed on Sunday. There will be no hourly limitation on conducting waste acceptance or other activities within the waste acceptance hours. The transfer station will be authorized for facility operations from 5:00 a.m. to 9:00 p.m., Monday through Friday, and 5:00 a.m. to 2:00 p.m. on Saturday. Facility operations include non-waste acceptance operations. The public waste acceptance hours will be posted on the facility sign.

7.5 Facility Sign

A sign will be conspicuously displayed at the entrance to the facility. This sign will measure at least four feet by four feet, and have lettering of at least three inches in height. The sign will state the name of the facility, type of facility, hours and days of operation, and the TCEQ registration number. The sign will be readable from the facility entrance.

Signs which include the facility rules will also be posted. This will include a statement that only construction or demolition waste and inert waste limited to brick and concrete will be accepted at the landfill. A sign prohibiting smoking will also be posted at the transfer station building.

7.6 Control of Windblown Material and Litter

Windblown material and litter will be collected and properly managed to control unhealthy, unsafe, or unsightly conditions by the following methods:

- Waste transportation vehicles using this facility will be encouraged to be enclosed or to use adequate covers such as a tarp, net, or other means to effectively secure the load consistent with §330.235 and Section 7.7. The adequacy of covers or other means to secure incoming wastes will be checked at the facility entrance. A sign will be prominently displayed at the facility entrance stating that all loads shall be properly covered.

- Windblown material and litter along the entrance road that has accumulated along fences and the property boundary and throughout the facility will be collected once a day during facility operations and returned to the tipping floor for transfer.
- This will be an enclosed facility; unloading of wastes will be performed within the building to control windblown material and litter. The facility will provide litter control devices, as necessary, at appropriate locations near the tipping floor and elsewhere. The litter control devices will be constructed of appropriate materials for the control of windblown material and litter. Fencing or screen will be located near the edge of pavement on all sides of the transfer station to control windblown material and litter.

7.7 Materials Along the Route to the Facility

The transfer station will take steps to encourage vehicles hauling waste to the facility to be enclosed or properly covered with a tarpaulin, net, or other means to properly secure the load. These steps are necessary to prevent the escape of any part of the load by blowing or spilling. The transfer station will post signs at the entrance gate notifying haulers of this requirement and enforcement measures. The transfer station will provide for the cleanup of waste materials spilled along and within the right-of-way of US183 for a distance of two miles in either direction from the entrance. Cleanup for the spilled materials will be performed once per day on days when the facility is in operation. The transfer station will consult with TxDOT, county, and/or local government officials concerning cleanup of roads and right-of-ways consistent with §330.235.

7.8 Facility Access Roads

The entrance road provides access from US183 to the transfer station for waste hauling vehicles, operating personnel, and visitors. The entrance road and access road will be constructed of asphalt or concrete pavement from the US183 connection. The all-weather surface entrance, access, and internal roads will provide mud control for the waste hauling vehicles prior to exiting the facility and returning to public access roads. It is not anticipated that mud or other debris will be tracked onto US183 given the all-weather surface of the entrance road. Should mud or other associated debris be tracked onto US183, the material will be removed daily. The entrance and access roads will be maintained in a reasonably dust-free condition by periodic water spraying from the water truck, as necessary. The entrance, access, and internal roads will be maintained in a clean and safe condition.

7.9 Noise Pollution and Visual Screening

Since transfer activities will be mainly enclosed, generated noise is mostly confined to the transfer station facility. Waste transfer operations are screened from the public. In addition, the transfer station will have a minimum buffer zone of approximately 224 feet and a minimum distance of 4,200 feet from the nearest existing residence.

7.10 Overloading and Breakdown

The facility will not accumulate solid waste in quantities that cannot be processed within such time as will preclude the creation of odors, insect breeding, or harborage of vectors. The waste volume received will be processed and transferred on the day it is received. The maximum time waste material will be stored in the transfer station will not exceed 48 hours, except holidays and weekends. During holidays and/or weekends, waste may be temporarily stored at the facility not to exceed a time period of 72 hours. If such accumulations occur, additional waste materials will not be received until the adverse conditions are abated.

If a significant work stoppage should occur at the transfer station due to a mechanical breakdown or other causes, the facility will restrict the receiving of solid waste and direct incoming solid waste to other approved processing or disposal facilities. If waste material is located in the facility when the transfer station becomes inoperable, the waste material will be removed within 72 hours and hauled to other approved processing or disposal facilities.

If the transfer station operation becomes inoperable for periods longer than 24 hours, all collection vehicles and private individual's vehicles will be directed to proceed directly to other approved processing or disposal facilities to deposit solid waste at those locations.

7.11 Sanitation

The tipping floor will be swept daily at the completion of the processing period and washed down at least two times per week. There will be no surface runoff onto or off of the floor of the transfer station. The floor will be completely enclosed, and a floor drain will be provided to remove wash water. Wash water will not be allowed to accumulate on the tipping floor; all wash water will be collected and properly disposed of. The wash water will be directed to the floor drain through a sand/grit trap to the contaminated water storage tank located outside of the transfer station building. The contaminated water will then be transported offsite for treatment and disposal at a publicly owned treatment works (POTW) or a properly permitted treatment facility.

7.12 Ventilation and Air Pollution Control

The facility will be designed and operated to provide adequate ventilation for odor control and employee safety. Ventilation in the transfer station building will be provided by the open east side through which collection vehicles will enter and exit, and vents which will be installed on the building walls. These provisions will provide for operator safety and odor control inside the building. It is not anticipated that ventilation will be an issue; however, dust control and ventilation will be in accordance with current TCEQ MSW Air Permitting rules and regulations applicable to municipal solid waste facilities.

The facility manager will ensure that the municipal solid waste processing facility does not violate any applicable requirements of the approved State Implementation Plan developed under the Federal Clean Air Act, §110, as amended.

The facility will obtain authorization under Chapter 116 or Chapter 330, Subchapter U, as applicable, prior to commencing construction of the facility, as required by §330.245(b).

Reporting of emissions events will be made in accordance with §101.201 (relating to Emissions Event Reporting and Recordkeeping Requirements) and reporting of scheduled maintenance will be made in accordance with §101.211 (relating to Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements), as required by §330.245(f).

No significant air pollution emissions are expected as a result from the operation of the facility. If air pollution emission capture and abatement equipment is utilized, it will be properly maintained and operated consistent with §330.245(e).

7.12.1 Odor Management Plan

The transfer station is located in Caldwell County outside the extraterritorial jurisdiction of the City of Lockhart.

The transfer station will manage odors associated with waste acceptance and processing operations consistent with this Odor Management Plan. This plan addresses sources of odors and includes general instructions to control odors and/or sources of odors.

Measures to control odors and sources of odors will include, but are not limited to, the following items:

- The facility will not accept municipal solid waste, special wastes, or industrial wastes.
- The facility will not accept liquid wastes.
- Open burning of waste will not be permitted at this facility.
- Unloading of wastes on the tipping floor will be consistent with procedures established in Section 7.2 Unloading of Waste.
- Spills of these wastes will be managed by collecting and transporting these wastes to the tipping floor for prompt processing.
- Solid waste will be stored in odor-retaining containers and vessels with tops.
- Incoming waste will be promptly loaded into transfer trucks or roll-off boxes and hauled to a landfill for disposal.
- Waste received at the transfer station will be transported to a landfill for disposal as soon as practical.

- Recyclable materials will be placed in roll-off boxes for transport to appropriate end-use markets.
- The facility incorporates on-site buffers for odor control. The minimum buffer distance from the transfer station building to the registration boundary is 224 feet.

7.12.2 Ponded Water

Any ponded water at the facility will be controlled to avoid its becoming a nuisance. In the event that objectionable odors do occur, appropriate measures will be taken to alleviate the condition. Site grading and maintenance will minimize the ponding of water over the paved areas. Waste transfer and related operations will be conducted inside the transfer station building. Ponding of water on or near the solid waste will only occur inside the transfer station building. The tipping floor will be inspected daily for ponded water. This ponded water will be swept into the floor drains and conveyed to the storage tank. Ponded water that has been in contact with waste is not expected to occur outside the transfer station building.

7.13 Health and Safety

Facility personnel will be trained in accordance with Section 8 – Personnel and Training.

7.14 Employee Sanitation Facilities

Potable water and sanitary facilities will be provided for all employees and visitors at the transfer station. Bottled water will be provided for potable water. Portable sanitary facilities will be provided. A private contractor will remove and properly dispose of all onsite wastewater collected in portable sanitary facilities; wastewater will not be placed in the facility's contaminated water storage tank.

7.15 Facility Inspection and Maintenance Schedule

ITEM	TASK	FREQUENCY	INSPECTOR	TYPE OF INSPECTION
Fence/Gate	Inspect perimeter fence and gate for damage, gaps, intrusions and the like. Make repairs if necessary.	Monthly	Facility Manager or Designee	Document in the Operating Record
Windblown Waste	Police working area, entrance road, and perimeter fence for loose trash. Clean up as necessary.	Daily	Facility Manager or Designee	Document in the Operating Record
Materials Along the Route to the Facility	Police the entrance area and all roads for a distance of two miles in either direction from the entrance for loose trash. Clean up as necessary.	Daily	Facility Manager or Designee	Document in the Operating Record
Facility Access Roads	Inspect facility access roads for damage from vehicle traffic, erosion, or excessive mud accumulation. Maintain as needed with crushed rock or stone.	Daily	Facility Manager or Designee	Document in the Operating Record
Wash Water	Monitor and clean the sand/grit trap, monitor contaminated water storage tanks connection to ensure functioning as designed, and monitor the level of contaminated water in the storage tanks.	Weekly	Facility Manager or Designee	Document in the Operating Record
Tipping Floor	Wash down or sweep with street sweeper at the completion of the processing period.	Sweep daily, wash down at least two times per week	Facility Manager or Designee	Document in the Operating Record

8 PERSONNEL AND TRAINING

8.1 Personnel

The transfer station will be staffed with qualified individuals experienced with municipal solid waste processing operations. 130 Environmental Park, LLC is responsible for the day-to-day operations of the transfer station. See Figure 8.1 – Organizational Chart for the personnel organization. Refer to Table 8-1 for a summary of job descriptions, minimum qualifications, and required training for transfer station personnel.

The facility manager is responsible for the administrative oversight of the facility, compliance with federal and state regulations and guidelines, and is designated as the contact person for regulatory compliance matters. The facility manager is also responsible for facility management and assuring that adequate personnel and equipment are available to provide facility operation in accordance with TCEQ regulations. The facility manager is responsible for daily operations and serves as the emergency coordinator. The facility manager is also responsible for maintaining the operating record and required logs. The facility manager, at a minimum, will have a high school diploma or equivalent, experience in municipal solid waste processing, transfer, and collection operations, and obtain and maintain a license as a municipal solid waste facility supervisor consistent with the requirements of Chapter 30, Subchapter F.

Equipment operator(s) are responsible for the safe operation of the equipment. As the personnel most closely involved with the actual transfer station operation, these employees are responsible for being alert for potentially dangerous conditions, or careless and improper actions on the part of non-employees and other persons while on the premises. Equipment operators monitor and direct unloading vehicles and are also responsible for maintenance, construction, litter abatement, and general facility cleanup. The equipment operators will intervene as necessary to prevent accidents and report unsafe conditions immediately to the facility manager. Equipment operators, at a minimum, must be experienced in the operation of heavy equipment, and demonstrate the ability to be trained in municipal solid waste processing operations. Equipment operators will have a minimum of six months experience in heavy equipment operation or on the job training by the facility manager.

Other facility personnel or laborer(s) may be employed from time to time in categories such as maintenance, construction, litter abatement, and general facility cleanup. Facility personnel may be permanent or part-time.

8.2 General Instructions

The transfer station personnel should have a basic understanding of the contents of this SOP. The facility manager should have a basic knowledge of the approved registration. The transfer station personnel will follow the general instructions provided in the Site

Operating Plan and approved registration. Refer to Section 7.15 – Facility Inspection and Maintenance Schedule for a listing of general tasks and procedures required.

8.3 Training

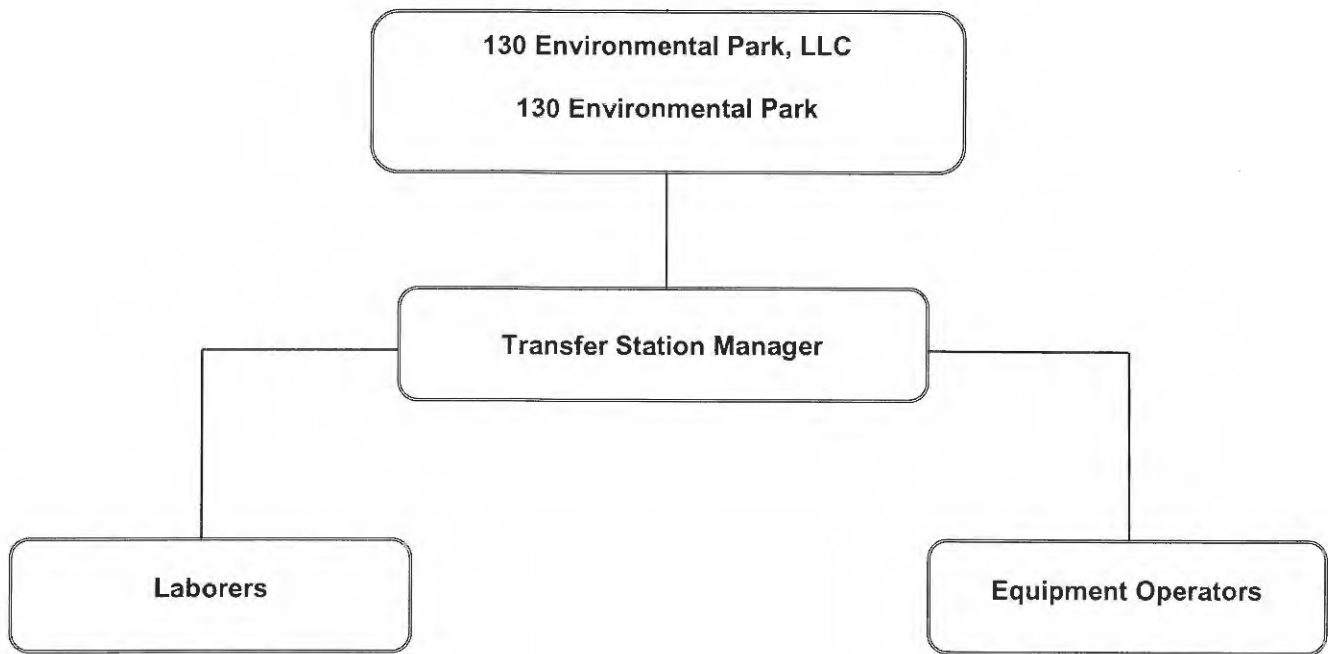
The transfer station personnel will receive training through a combination of classroom instruction and on-the-job training. Training requirements are also included in Table 8-1, Facility Personnel Summary. The training program will provide instruction to personnel to allow performance of their duties to ensure facility compliance. This training program will be directed by a senior staff member of the 130 Environmental Park, LLC organization. Training will be conducted by 130 Environmental Park, LLC or consultants that are experienced and trained in municipal solid waste processing procedures. The facility personnel will be trained in procedures relevant to the position for which they are employed. In-house training will address the following topics:

- Site Operating Plan
- Facility emergency monitoring equipment and plans
- Communication and alarm systems
- Health and safety
- Fire Protection Plan
- Customer notification and load inspection procedures
- Identification of prohibited wastes including hazardous wastes and PCB wastes
- Waste handling procedures (acceptable and prohibited wastes)
- Equipment operation and maintenance
- Recordkeeping

The transfer station personnel must successfully complete the in-house training program. The in-house training program consists of training and safety meetings conducted at least once per month. The topics addressed are the topics identified as part of the training program above. Personnel will be trained on topics relevant to their position. On-going regular training and safety meetings will be scheduled monthly. Should a monthly meeting be cancelled, it will be rescheduled or combined with the next regular meeting. Documentation of training will be placed in the operating record as required by Section 5 - Recordkeeping Requirements.

The facility manager, equipment operators, gate attendant and other personnel will receive training at TCEQ-sponsored or approved training courses, as deemed appropriate by facility management. The Institute for Infrastructure in Environmental Development (IIED) provides courses in the Class A, B, C, and D certification for municipal solid waste facilities, waste screening, transfer station, and safety. The IIED provides certification in accordance with §§30.201, 30.207, 30.210, and 30.212 as related to licenses for municipal solid waste operators. Other qualified TCEQ or other consultants may also provide training as appropriate. The transfer station will maintain personnel operator licenses issued consistent with 30 TAC Chapter 30, Subchapter F: Municipal Solid Waste Facility Supervisors.

Figure 8.1
Organizational Chart



**Table 8-1
Facility Personnel Summary⁽¹⁾**

Position	Summary of Job Description	Minimum Qualifications	Required Training
Facility Manager	The facility manager is responsible for: • Daily operations and serving as the emergency coordinator • Overall facility management • Assuring that adequate personnel and equipment are available to provide facility operation in accordance with TCEQ regulations • Directing the equipment operators on a daily basis regarding waste processing operations • Delegating work and responsibilities to staff members as he/she deems necessary to conduct day-to-day operations at the facility • Personnel safety during waste processing operations • Maintaining the operating record and required logs	• Experience in municipal solid waste processing operations • High school diploma or equivalent • Obtain and maintain a license consistent with §30.201, 30.207, 30.210, and 30.212	• Facility Orientation • Facility Operations • Hazardous Waste Identification • Safety • Fire Prevention • Load Inspections • Prohibited Wastes • Emergency Response • Litter Control
Equipment Operators	The equipment operators are responsible for: • The safe operation of equipment • Being alert for potentially dangerous conditions, or careless and improper actions on the part of non-employees and other persons while on the premises • Monitoring and directing unloading vehicles • Performing load inspections • Maintenance, litter abatement, and general facility cleanup • Intervening as necessary to prevent accidents and report unsafe conditions immediately to the facility manager • Other tasks as required by the facility manager	• Experience in heavy equipment operation, either a minimum of six months experience or on-the-job training by the facility manager • Ability to be trained in municipal solid waste processing operations	• Facility Orientation • Hazardous Waste Identification • Safety • Fire Prevention • Load Inspections • Prohibited Wastes • Emergency Response
Laborers	The laborers are responsible for: • Collecting litter • Directing vehicles at the tipping floor • Other tasks as needed including but not limited to maintenance, construction, litter abatement, and general facility cleanup	• Ability to be trained in completing the assigned tasks	• Facility Orientation • Safety • Fire Prevention • Emergency Response • Litter Control

⁽¹⁾ More detailed job descriptions along with written descriptions of the type and amount of introductory and continued training provided to each employee will be maintained in the operating record.

9 GENERAL INSTRUCTIONS

9.1 General Facility Safety

Facility safety will be promoted by properly trained personnel using well-maintained equipment to perform standard work procedures. Facility safety will be enhanced by limiting access to the working areas to only authorized personnel. In the event of an emergency, planned emergency response procedures will be followed.

All facility personnel will receive facility-specific training consisting of the following:

- Safe work practices
- Nature of anticipated hazards
- Equipment and vehicle safety
- Facility access controls
- Hazardous material identification and communication
- Fire safety
- Emergency response
- Employee rights and responsibilities

Well-maintained equipment is vital to the safe conduct of daily transfer operations. Therefore, all facility equipment will be maintained in proper working order and all safety guards, backup alarms, and engine kill switches will be operational. Equipment operators will perform an equipment check at the beginning of each workday. Problems will be reported to the facility manager. Fire extinguishers and first aid kits will be inspected monthly.

Access to the facility will be limited to authorized personnel as described in Section 7 of this SOP. Access is controlled by a combination of signs and physical barriers. Facility personnel are responsible to be alert for the entrance of unauthorized personnel or the entrance of authorized personnel into prohibited areas.

In the event of an emergency, facility personnel will evaluate the situation, notify the facility manager, and take appropriate actions such as rendering aid, calling for assistance, or closing access to the emergency scene. Emergency numbers will be posted in the transfer station building and beside the telephone in the gatehouse.

These include:

Office	Phone
Ambulance	911
Fire	911
Police	911

9.2 Preparedness and Prevention Measures

Preparedness and prevention measures have been developed to minimize both frequency and severity of accidents and emergency situations threatening human health. Preparedness and prevention measures depend largely on the attentiveness and state of readiness of facility personnel. Preparedness and prevention measures have been developed for one general category and two specific areas of the facility: the transfer station building and the facility entrance road. These preparedness and prevention measures are detailed in the following sections.

9.2.1 General

General preparedness and prevention measures that will be followed are:

- Employee breaks or rest periods will be provided to minimize fatigue, improve alertness, and thereby reduce accident potential.
- Access controls will provide for the safety of non-transfer operations personnel.
- Routine preventive maintenance of equipment will be provided.
- Facility inspections of the working areas will be performed by a management representative.
- Appropriate personnel safety equipment will be kept onsite and maintained in good repair.
- Adequate turning area for hauling vehicles will be provided.
- Scavenging will not be allowed and individuals are required to stay close to their vehicles for their own protection.
- Waste unloading will be restricted to designated areas only.
- Facility personnel will be alert for possible prohibited wastes.
- Non-approved wastes will be controlled or contained and removed as necessary.

9.2.2 Transfer Station Building

Preventative measures that will be followed in the transfer station building include the following:

- Visually screen all incoming waste loads for unauthorized wastes.
- Individuals are required to stay close to their vehicles for their own protection.

- Visually observe incoming vehicles for evidence of improper operation, faulty equipment, or other conditions that could be hazardous to personnel or others.
- Maintain access to appropriate emergency equipment and first-aid materials.
- Provide emergency telephone numbers that are conspicuously posted in the transfer station building.

9.2.3 Facility Entrance Road

Preventative measures for the facility entrance road include the following:

- Display speed limit, directional, and other precautionary signs.
- Roadways are two-way to expedite traffic flow.
- Maintain roadway free from obstructions.
- Enforce requirements for safe operation of vehicles onsite.

10 ENDANGERED SPECIES PROTECTION

Development of the facility shall be conducted to avoid and minimize potential impacts to endangered or threatened species. The facility and the operation of the facility will not result in the destruction or adverse modification of the critical habitat of endangered or threatened species, or cause or contribute to the taking of any endangered or threatened species.

A species protection plan is included as Appendix IVC and shall be followed during facility development and operation. No impacts to threatened or endangered species are anticipated as a result of construction or operation of the 130 Environmental Park.

130 ENVIRONMENTAL PARK

**APPENDIX IVA
LOAD INSPECTION REPORT**

APPENDIX IVA

LOAD INSPECTION REPORT

Date and Time of Inspection: _____

Inspector's Name: _____

Name of Hauling Company: _____ Phone Number: _____

Address: _____ City: _____ State: _____ Zip: _____

Driver's Name: _____ Vehicle License Number: _____

Type of Vehicle: _____ (e.g., roll off, front loader, dump truck)

Size of Load, yards: _____ Sources of Wastes: _____

LOAD CONTENTS

Waste	Est. % by Vol.	Waste	Est. % by Vol.
Household wastes		Yard waste, brush, stumps	
Wood		Containers	
Metal		Bulk liquids	
Paper, cardboard		Powders, dusts	
Plastic, rubber, glass		Soil	

PROHIBITED WASTE INDICATORS

	YES	NO
Labeled hazardous waste		
Batteries		
Oil		
Medical		
Radioactive		
Ashes		
Soils		
Odors, unusual		
Colors, unusual		
Heat, excessive		
Smoke		

INSPECTION RESULTS

Prohibited wastes identified? _____

Further action required? (e.g., none, lab tests, notification) _____

Samples sent to lab? _____ Lab Name: _____ Phone: _____

Tests requested: _____

Driver Signature _____

Load Inspector Signature _____

130 ENVIRONMENTAL PARK

**APPENDIX IVB
(RESERVED)**

130 ENVIRONMENTAL PARK

**APPENDIX IVC
SPECIES PROTECTION PLAN**

SPECIES PROTECTION PLAN

For:
130 Environmental Park

Prepared by:
 **HALFF**

HALFF ASSOCIATES, INC.

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AVO 29520

August 2013

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1.0 INTRODUCTION

130 Environmental Park, LLC plans to develop a new municipal solid waste facility, including a Type I municipal solid waste landfill and a Type V municipal solid waste transfer station, within a facility boundary area of 520 acres located on a tract of land totaling approximately 1,229 acres in Caldwell County (the study area). The location of the study area is on the east side of State Highway (SH) 130/US 183 north of the City of Lockhart, Texas, extending from the intersection of US 183 and FM 1185 east to Homannville Trail. **Figure 1** shows the general project location with respect to larger metropolitan areas. **Figure 2** shows the location within Caldwell County and in relation to the City of Lockhart. The facility will be accessed from northbound US 183 through an entrance road. A gatehouse and scales will be provided within the facility boundary. The landfill footprint will cover approximately 208 acres located within the facility boundary area.

The facility will be permitted/registered in accordance with 30 TAC Chapter 330 Municipal Solid Waste Management Regulations. The Texas Commission on Environmental Quality (TCEQ) is the agency responsible for permitting and regulating municipal solid waste facilities. The TCEQ requires an applicant to address endangered and threatened species. Halff Associates, Inc. (Halff) has identified five threatened or endangered species that have the potential to occur within the study area: the wood stork, the golden orb mussel, the Texas pimpleback mussel, the Texas horned lizard, and the timber rattlesnake. All are state-listed threatened species; no critical habitat has been designated for any of these species. Those portions of the study area that may provide suitable habitat for the wood stork, golden orb, and Texas pimpleback are located away from areas that will be impacted by construction and operation of the facility. Within the study area, the forested areas near permanent water sources may provide suitable habitat for the Texas horned lizard and timber rattlesnake.

2.0 PRESENCE OF POTENTIALLY SUITABLE HABITAT

2.1 Wood Stork

The potential for occurrence of the wood stork within the study area is conditional on the basis that this species migrates and its migratory range may happen to overlap water features in the study area (the south central pond/wetland complex shown on **Figure 3**) that may be suitable as a temporary stopover site. Because no critical habitat has been designated for this species,

because of the incidental chance for occurrence, and because the suitable habitat occurs in an area that will not be impacted by the proposed facility, the project will not result in the destruction or adverse modification of critical habitat of or cause or contribute to takings of this species.

2.2 Golden Orb and Texas Pimpleback

The golden orb and Texas pimpleback are mussel species whose range includes the Guadalupe River tributary system. Recorded observations are known to include impoundments of larger stream systems, and it is reasonable to conclude that these species could be found in the south central pond. Because no critical habitat has been designated for these species, and because the suitable habitat occurs in areas that will not be impacted by the proposed facilities, the project will not result in the destruction or adverse modification of critical habitat of, or cause or contribute to takings of, these mussels.

2.3 Timber Rattlesnake

The study area represents the western edge of the timber rattlesnake's range, and includes conditions that may be suitable for this snake. Timber rattlesnakes are found in upland woods, rocky ridges, and moist lowland forests or thickets near permanent water sources such as rivers, lakes, ponds, streams and swamps where tree stumps, logs and branches provide refuge. Within the study area, the areas that may provide suitable habitat for the timber rattlesnake are the forested areas in close proximity to stream corridors. A conservative (overly-inclusive) depiction of these areas is shown on **Figure 3**.

2.4 Texas Horned Lizard

The historical range of the Texas horned lizard included the entire state in areas of flat, open terrain with scattered vegetation and sandy or loamy soils. Grassland areas in the study area are dominated by dense cover species such as Texas wintergrass and threeawn which would provide significant ground cover compared to clump species. However, forested areas along the western portion of the study area have rockier soils with less cover in the herbaceous layer and would be considered the more suitable habitat for this species within the study area. A conservative (overly-inclusive) depiction of these areas is shown on **Figure 3**.

3.0 AVOIDANCE, MINIMIZATION, AND MITIGATION

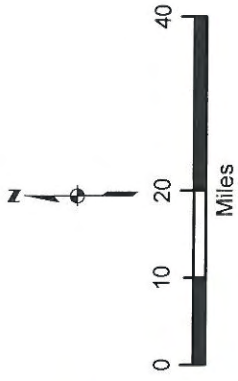
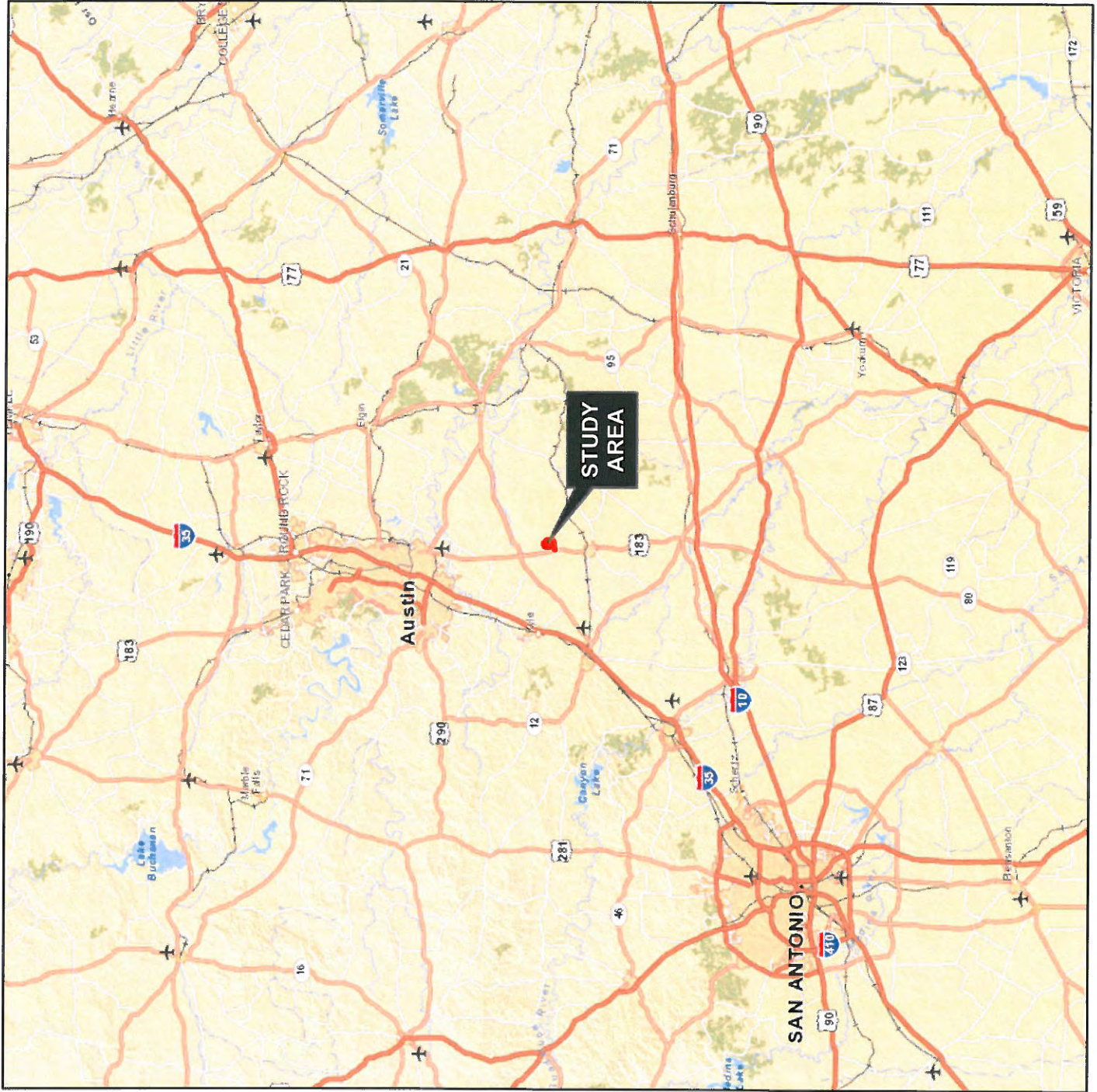
No wood stork, Texas horned lizard, or timber rattlesnake was observed by Halff personnel during the hundreds of man-hours spent investigating the study area in June and July 2013; because the potentially suitable habitat for the mussel species within the study area (the large impoundment in the southern portion) is away from area that would be impacted by the project, surveys to determine the presence of the mussel species were not conducted. Suitable habitat within the study area for these species is depicted on **Figure 3**. Facility construction and operation activities will occur away from areas that include potentially suitable habitat for the wood stork and the two mussel species. A linear forested area (less than 14.8 acres) along the western edge of the study area will be cleared during construction of the entrance road; this area includes habitat that is potentially suitable for both the Texas horned lizard and timber rattlesnake. Additional forested areas (totaling 118.0 acres) will be cleared as part of the landfill development; this area has limited potential to include the timber rattlesnake. Each of these areas depicted in **Figure 3**; not depicted on the figure is perimeter fencing which will be placed along the edge of the facility boundary.

The avoidance, minimization, and mitigation measures to be implemented pursuant to this species protection plan include:

1. Clearing of the forested areas shown on **Figure 3**, and the clearing for the perimeter fencing, will not occur between September and May to avoid the hibernation periods for the Texas horned lizard and timber rattlesnake.
2. Immediately prior to clearing to facilitate construction of the access road, landfill area, transfer station, and perimeter fencing, a survey of the area will be conducted by a biologist with a Texas Parks & Wildlife Department (TPWD) scientific collection permit. If a Texas horned lizard or timber rattlesnake is observed during this survey, the specimen(s) will be relocated by the biologist to suitable habitat in the forested riparian corridor area in the western part of the study area.
3. During the clearing operations, a biologist with a TPWD scientific collection permit will conduct surveys around construction equipment prior to start-up of the equipment and in the area where clearing or fencing will occur in advance of operations. If a Texas

horned lizard or timber rattlesnake is observed during these surveys, work will be stopped and the specimen(s) will be relocated by the biologist to suitable habitat in the forested riparian corridor area in the western part of the study area.

4. Although unexpected, a limited potential exists that the Texas horned lizard or timber rattlesnake may be encountered in marginal habitat in other parts of the site. If specimens are observed during construction in any such area, work will be stopped and a biologist with a TPWD scientific collection permit will be contacted to determine and implement any appropriate actions, including pre-construction surveys and/or the possible relocation (by a biologist with a TPWD scientific collection permit) of specimens to suitable habitat in the forested riparian corridor area in the western part of the study area.
5. Employees and construction crews working on the site will receive pocket identification cards with color photographs and species information for the wood stork, Texas horned lizard, and timber rattlesnake. These will allow for identification of the species and provide instructions on how to respond to a sighting: avoid disturbance of the animal and notify the facility general manager of the sighting location and species. Signage will also be posted at the Gate House with similar information. Following a reported sighting of any of these species, the facility general manager will contact a biologist with a TPWD scientific collection permit to determine and implement any appropriate action, including the possible relocation (by a biologist with a TPWD scientific collection permit) of a Texas horned lizard or timber rattlesnake to suitable habitat in the forested riparian corridor area in the western part of the study area.



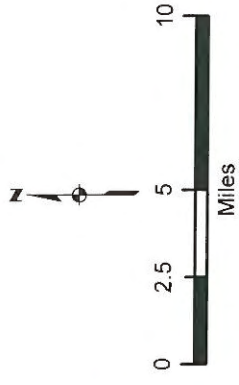
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 Study Area

Notes:

1. Source/Year of Base Map: ESRI, World Street Map/2013
- 2.
- 3.
- 4.
- 5.

Project Title: 130 ENVIRONMENTAL PARK
Project Number
Date: 06/2013 AVO: 29520
Sheet Title: PROJECT LOCATION MAP
Sheet Number: FIGURE 1

Legend



Study Area

Notes:

1. Source/Year of Base Map: ESRI, World Street Map Service/2013
- 2.
- 3.
- 4.
- 5.

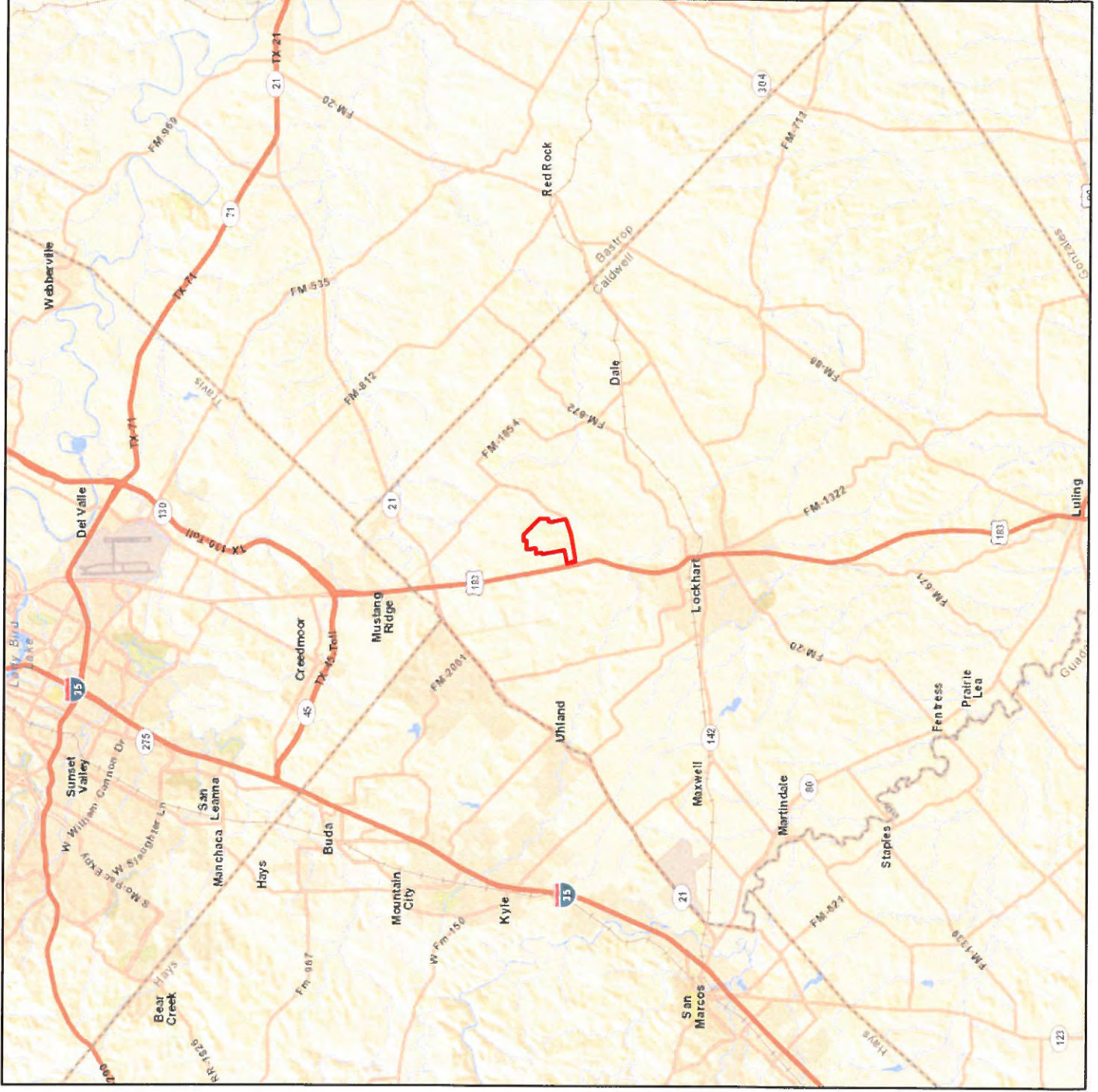
Project Title: 130 ENVIRONMENTAL
PARK

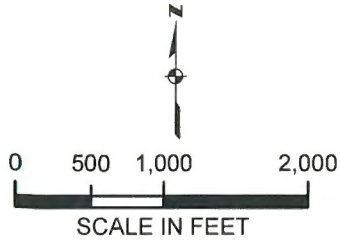
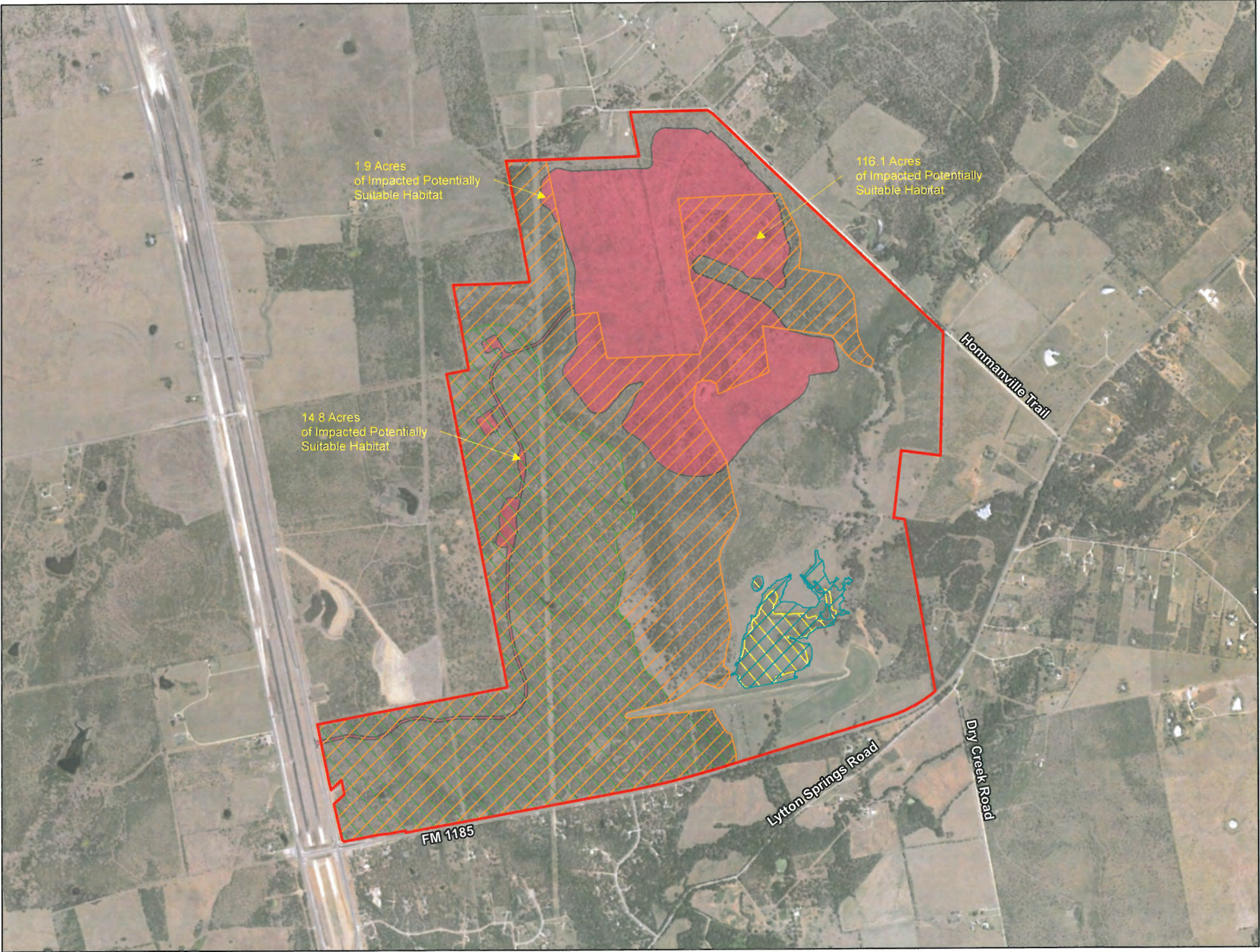
Project Number

Date: 06/2013 AVO: 29520

Sheet Title: PROJECT VICINITY MAP

Sheet Number: FIGURE 2





Legend

- Study Area
- Wood Stork
- Golden Orb & Texas Pimpleback
- Timber/ Canebrake Rattlesnake
- Texas Horned Lizard
- Project Impact Area

Species	Potentially Suitable Habitat Acreage
Wood Stork	30.9
Texas Pimpleback	20.9
Golden Orb	20.9
Timber/ Canebrake Rattlesnake	705.9
Texas Horned Lizard	388.8

Notes:
1. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Project Title: 130 ENVIRONMENTAL PARK
Project Number:
Date: 08/2013 AVO: 29520
Sheet Title: POTENTIALLY SUITABLE HABITAT MAP
Sheet Number: FIGURE 3

