Ensuring a desirable workplace which creates a diverse team of all kinds of people and professions.

Providing comfortable, safe, durable, cost-effective, *environmentally sensitive* and aesthetically appealing transportation systems that work together.

Using efficient and cost-effective work methods that encourage innovation and creativity.

Promoting a higher quality of life through partnerships with the citizens of Texas and all branches of government by being receptive, responsible and cooperative.

To be a progressive state transportation agency recognized and respected by the citizens of Texas:
TxDOT’s Environmental Programs Support Its Vision

TxDOT’s Vision for an Environmentally Sensitive Transportation System

Operational Areas
- Facility Operations
- Construction Operations
- Project Development

Environmental Requirements
- NEPA, 23CFR 771, 43 TAC 2, CWA, CAA
- NEPA Commitments, NPDES, COE Permits
- RCRA, SPCC, PSTs, ASTs

Guidance
- ETS
- DEQC
- SWAT
- PPA Surveys

Training
Environmental Management from Project Development through Construction

**Project Tracking**
- Environmental Tracking System (ETS)

**Project Development**
- Environmental Issues Permits & Commitments (EPIC) Are Identified by Districts & ENV and Tracked

**Design**
- ETS Captures EPIC for Inclusion in Project Plans

**Construction**
- EPIC is Monitored During Construction

**Management Review**
- DECQ & SWAT Inspection Reports Sent to Management for Review & Action

**DECQ**
- District Environmental Quality Coordinator

**SWAT**
- Stormwater Advisory Team
TxDOT Environmental Tracking System (ETS)

ETS: Database System that Tracks the Environmental Process for Projects Generated by TxDOT's 25 Districts

Environmental Issues, Permits & Commitments (EPIC) are Captured by ETS for "Carry-Over" into the Project Design and Construction Phases

Districts Can Remotely Access ETS to Check & Update a Project's Status

ETS Allows ENV, Districts & Other TxDOT Divisions to Keep Track of Project EPICs
### TxDOT ETS - Project Screen

**Project Entry:** CSJ: 0915-12-403  Dist.: San Antonio  City: Bejar  Hwy.: Watson Road

<table>
<thead>
<tr>
<th>Project</th>
<th>EPIC</th>
<th>Comments</th>
<th>Survey</th>
<th>Public Invk.</th>
<th>Coordination</th>
<th>Section 416</th>
<th>Re-Eval/Rev.</th>
<th>NEPA</th>
<th>CRM</th>
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<tbody>
<tr>
<td>CSJ</td>
<td>0915-12-403</td>
<td>District: San Antonio</td>
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<td></td>
<td>Proj. Type: SFONSI</td>
<td>Current Letting: 10/01/2003</td>
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<td>Temp. CSJ</td>
<td>N</td>
<td>County: Bejar</td>
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<td></td>
<td>Funding: State</td>
<td>Final Letting: 02/01/2003</td>
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<td></td>
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<td>Control CSJ</td>
<td>0000-00-000</td>
<td>Field: 1</td>
<td></td>
<td></td>
<td>Proj. No.: C 015-12-403</td>
<td>Project Dt: 11/27/2002</td>
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<td></td>
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</tbody>
</table>

- **Highway:** Watson Road
- **From:** SH 16
- **To:** Aposwhite Road
- **Proj. Desc:** Hidden 2-lane roadway to a 4-lane divided facility

- **Sent To Env.:** 11/27/2002
- **Sent To FHWA:** 00.00.00.000
- **Apv From FHWA:** 00.00.00.000
- **Gov Ntly:** 02/13/2003
- **Clear By Env.:** 03/03/2003

- **Timeline:**

- **Last Update:** 04/16/2003

---

**Ready**
### General Project Information

<table>
<thead>
<tr>
<th>CSJ:</th>
<th>0915-12-403</th>
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<tbody>
<tr>
<td>Field:</td>
<td>I</td>
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<tr>
<td>District:</td>
<td>San Antonio</td>
</tr>
<tr>
<td>County:</td>
<td>Bexar</td>
</tr>
<tr>
<td>Highway:</td>
<td>Watson Road</td>
</tr>
<tr>
<td>Limits From:</td>
<td>SH 15</td>
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<tr>
<td>To:</td>
<td>Applewhite Road</td>
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<tr>
<td>Description:</td>
<td>Widen 2-lane roadway to a 4-lane divided facility</td>
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</table>

<table>
<thead>
<tr>
<th>Project Type:</th>
<th>SFONS</th>
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<tr>
<td>Project #:</td>
<td>C 0915-12-403</td>
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<tr>
<td>Source:</td>
<td>State</td>
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<tr>
<td>Current Letting:</td>
<td>10/01/2003</td>
</tr>
<tr>
<td>Final Letting:</td>
<td></td>
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</table>

| Cleared by ENV: |        |
| Priority:       | High   |

### Archaeological Studies Issues

<table>
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<tr>
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<tr>
<td></td>
<td>Party Responsible: district</td>
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<tr>
<td>Impact Type:</td>
<td>Temporary, No Permit Required</td>
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</tbody>
</table>

The Texas Historical Commission (THC) has concurred with TxDOT's recommendation that the project may proceed with development including design and right-of-way (ROW) acquisition. Final clearance with the THC will be completed after right of access to the new ROW has been obtained, but prior to project letting.

Comments Last Updated: 07/17/2003

### Water Quality Resources Issues

<table>
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<tr>
<th>Permit #:</th>
<th>Commitment Type: Pre-Construction</th>
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<tr>
<td>Impact Type:</td>
<td>Temporary, No Permit Required</td>
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</table>

<table>
<thead>
<tr>
<th>Permit #:</th>
<th>Commitment Type: Pre-Construction</th>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>Party Responsible: district</td>
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<tr>
<td>Impact Type:</td>
<td>Permanent, No Permit Required</td>
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Comments Last Updated: 07/17/2003

<table>
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<th>Permit #:</th>
<th>Commitment Type: Pre-Construction</th>
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<tbody>
<tr>
<td>N/A</td>
<td>Status: sample</td>
</tr>
<tr>
<td></td>
<td>Party Responsible: district</td>
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</table>

Comments Last Updated: 07/17/2003

Impact Type: N/A

Controls:

BMPs:
DEQC Responsibilities

- Review projects with permits, formal consultation, or other mitigation requirements.
- Review randomly selected “other” construction projects within each area office.
- Inspect maintenance section projects in each district area office.
## ENVIRONMENTAL COMMITMENT CHECKLIST

For Construction, Maintenance and Facilities Projects

<table>
<thead>
<tr>
<th>Project:</th>
<th>Date:</th>
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<tbody>
<tr>
<td>DEQ:</td>
<td>DECQ:</td>
</tr>
<tr>
<td>HIGHWAY:</td>
<td>none</td>
</tr>
</tbody>
</table>

### 1. Storm Water Pollution Prevention

* A. Required Information and Documentation

1. Does the construction site have a Storm Water Permit? [ ] Yes [ ] No [ ] NA
2. Is a notice posted in a public, accessible location near where construction is actively underway (and moved as necessary)? [ ] Yes [ ] No [ ] NA
3. Does the notice contain the following information:
   a. The permit number or a copy of the NOI? [ ] Yes [ ] No [ ] WA
   b. The name and telephone number of a local contact person? [ ] Yes [ ] No [ ] WA
   c. A brief description of the project? [ ] Yes [ ] No [ ] WA
   d. Location of SWPP (job site or other location)? [ ] Yes [ ] No [ ] WA
4. Is there a copy of the Construction General Permit in the SWPP? (A copy of the Federal Register is sufficient)? [ ] Yes [ ] No [ ] WA
5. Is there a copy of a Delegation of Authority Letter authorizing the inspector to sign inspection reports in the SWPP file? [ ] Yes [ ] No [ ] WA
6. Is the SWPP retained onsite at the facility that generates the storm water? [ ] Yes [ ] No [ ] WA
   (If no, where is it located [ ])
7. Is the SWPP updated and documented in the plan as necessary to remain consistent with any changes in design, construction, operation, or maintenance of the site, and applicable to protecting surface water resources in sediment and erosion site plans or site permits, or storm water management site plans or site permits approved by State, Tribal or Local Officials for the site the permittee receives notice? [ ] Yes [ ] No [ ] WA
8. Is the description of construction and waste materials expected to be stored on-site updated? [ ] Yes [ ] No [ ] WA
9. Are the following records maintained and available for inspection, or included in the SWPP?
   a. Dates when major grading activities occur? [ ] Yes [ ] No [ ] WA
   b. Dates when construction activities temporarily or permanently cease on a portion of the site? [ ] Yes [ ] No [ ] WA
   c. Dates when stabilization measures are initiated? [ ] Yes [ ] No [ ] WA
10. Did stabilization occur within 14 days at locations where soil disturbing activities have ceased or will cease for at least 21 days or were temporary measures installed? [ ] Yes [ ] No [ ] WA

### B. General Conditions

1. Are Best Management Practices (BMPs) being utilized? [ ] Yes [ ] No [ ] WA
2. Are silts, buffers, or equivalent sediment controls at a minimum used for all side slopes and down-slope boundaries of the construction area? [ ] Yes [ ] No [ ] WA

### C. Controls & Measures

1. Have erosion and sediment controls been designed to retain sediment on-site to the extent practical during the construction phase? [ ] Yes [ ] No [ ] WA

* Contact Project Engineer
Storm Water Advisory Team (SWAT)

- Design
- Bridge
- Maintenance
- Construction
- Environmental

- Identify Effective BMPs
- Develop Internal Bulletins
- Provide Training
- Generate Ideas to Improve Storm Water Management
- Conduct SWPPP Inspections

SWAT Goals & Objectives

Multi-Disciplinary

Multi-Division Team

Engineering-Hydraulics – Environmental & Construction Specialist
Pollution Prevention & Abatement Surveys (PPA)

1. ENV Director conducts PPA survey of facility operations.
2. ENV Director sends PPA survey report to District Engineer.
3. District Engineer responds to actions reported to ENV.
4. PPA survey report is prepared.

- SPCC
- PST
- ACM
- Used Oil
- Waste Management
## Table 1
Summary - District Environmental Survey, December 2002

<table>
<thead>
<tr>
<th>Survey Categories</th>
<th>District Complex</th>
<th>Section 1</th>
<th>Section 2</th>
<th>Section 2</th>
<th>Section 3</th>
<th>Section 4</th>
<th>Section 5</th>
<th>Section 6</th>
<th>Section 7</th>
<th>Overall District Category Scores</th>
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<tbody>
<tr>
<td>Solid Waste Management*</td>
<td>TIR 0</td>
<td>TD NA</td>
<td>NA NA</td>
<td>NA NA</td>
<td>NA NA</td>
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<td>NA NA</td>
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<tr>
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<td>Used Oil/Fuel Filters Management</td>
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<td>Housekeeping</td>
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<td>SPCC* Planning</td>
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<td>PST* Management</td>
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<td>0 0 0</td>
<td>0 0 0</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Notes:
1. TIR refers to Total Items Reviewed. Refers to total check list items reviewed in the listed category.
2. TD refers to Total Items Deficient. Refers to the total number of deficiencies noted for all the items reviewed in the listed category.
3. Score is the percent of category items reviewed that had no deficiencies noted. Scores are provided for informational purposes. Although higher scores indicate fewer deficiencies were noted, any one item noted deficient may represent a possible violation with state or federal environmental requirements. The facility was inspected by state or federal regulators.
4. Refers to the District’s compliance with state and federal regulations regarding the proper identification and classification of waste generated at a facility. Proper waste identification and classification is required in order to identify the appropriate storage, transport, and disposal requirements for the classified waste.
5. Refers to the management of specific waste streams that are classified as hazardous under state and federal regulations. Hazardous waste generators must follow stringent state and federal requirements when storing, transporting, and disposing of hazardous waste.
6. ACM refers to Asbestos Containing Materials management in TxDOT operated buildings within the District.
7. Housekeeping is a generic term used to describe the sections’ daily management of utilisable materials and waste and covers areas such as minor spill prevention, minor spill clean-up, proper management of small volumes of waste and proper container labeling. Maintaining a neat and orderly work environment is a good defence in preventing citizen complaints and regulatory agency inquiries.
8. Equipment Washing refers to the management waste generated during equipment washing operations, particularly with respect to TxDOT’s March 2002 Compliance Agreement with TCEQ.
9. SPCC refers to Spill Prevention ContROLS and Countermeasures. Refers to the Federal SPCC planning requirements for facilities that store oil containing products above threshold volumes.
10. PST refers to Petroleum Storage Tanks. Category reveals the District’s compliance with state and federal PST regulations and leak detection requirements.
11. NA refers to Not Applicable. The items in this category are reviewed as a District-wide compliance activity and are not reviewed at the individual section level.
Environmental Training & Guidance

Environmental Guidance
- NEPA
- Project Development

Construction Operations
- NPDES
- 404 Permits

Facility Operations
- HAZMAT
- SPCC

Environmental Training
- Wetlands
- Pollution Prevention

Maintenance Operations
## What’s Next For TxDOT?

<table>
<thead>
<tr>
<th>ETS</th>
<th>EPIC Sheets</th>
<th>DEQC</th>
<th>Maintenance</th>
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</thead>
<tbody>
<tr>
<td><strong>Future Developments Include:</strong></td>
<td><strong>EPIC Committee Established to:</strong></td>
<td><strong>Identify DEQC Training Needs</strong></td>
<td><strong>Identify Environmental Aspects of Maintenance Operations</strong></td>
</tr>
</tbody>
</table>
| EPIC Verification Field  
Project Not Cleared Until Confirmation EPICs are Implemented in Project Plans. | Clearly Define EPIC Accountability and Responsibility:  
District?  
ENV?  
Contractor? | DEQCs not all at the same level of experience. | Develop Best Management Practices |
| System Integration  
Integrate ETS with Existing Design & Construction Information System. | Clearly Define EPIC Timing:  
Preconstruction?  
During Construction?  
Post Construction? | Enhance Checklist | Facility Surveys  
Incorporate Environmental Requirements into Service Contracts |
| | Clearly Communicate:  
The EPICs must clearly communicate to all parties what needs to be done by eliminating Enviro-Jargon & adding specificity. | | |
QUESTIONS?