Texas Department of Transportation Technical Provisions

SH 183 Managed Lanes Project

Attachment 4-1 Permits/Commitments/Mitigation

SH 183 Managed Lanes Project - Permits/Commitments/Mitigation

Project Issue/ Resource	Phase	SH 183 Segment 2E: SH 183 from SH 121/SH 183 to SH 161 Transition (Airport Freeway	SH 183 from SH 161 to I-35E (excludes Carl Rd. to SH 114) (SH 183 EA/Re-evaluation)	SH 114 from International Parkway to SH 183 SH 114 EA	Loop 12 from SH 183 to I- 35E: toll lanes (Loop 12 EA/Re-evaluation)
		EA/2E Re-evaluation)			
Vegetation	Ultimate	1.68 acres of proposed compensatory mitigation	7.75 acres of non-regulatory mitigation proposed at LLELA	Mitigation for 30.06 acres of overstory/understory woodlands, 2.24 acres of riparian habitat, and one 20- inch dbh post oak proposed	No compensatory mitigation is required
	Interim*	No compensatory mitigation is required for interim phase	7.75 acres of non-regulatory mitigation proposed at LLELA	No compensatory mitigation is required for interim phase	No compensatory mitigation is required for interim phase
Threatened & Endangered Species	Ultimate	No impacts anticipated	Mussel presence/absence survey to be completed prior to construction	No impacts anticipated	No impacts anticipated
-	Interim*	Prior to construction, review current T&E species list for changes of list used in NEPA Approvals, if changes occur refer to Section 4.3.2.6 of Technical Provisions	Mussel surveys required prior to construction; Prior to construction, review current T&E species list for changes of list used in NEPA Approvals, if changes occur refer to Section 4.3.2.6 of Technical Provisions	Prior to construction, review current T&E species list for changes of list used in NEPA Approvals, if changes occur refer to Section 4.3.2.6 of Technical Provisions	Prior to construction, review current T&E species list for changes of list used in NEPA Approvals, if changes occur refer to Section 4.3.2.6 of Technical Provisions
Migratory	Ultimate	Comply with the MBTA	Comply with the MBTA	Comply with the MBTA	Comply with the MBTA.
Birds	Interim*	Comply with the MBTA	Comply with the MBTA	Comply with the MBTA	Comply with the MBTA
Waters of the U.S., including Wetlands/Se ction 404	Ultimate	Impacts authorized by NWPs Non-PCN	7 sites require NWPs w/ PCN, 1 site a NWP Non-PCN, and 1 site an IP required	10 sites require NWP w/ PCN, 8 sites a NWP, and 3 sites an IP	NWP PCN required.
Permits	Interim	NWP 14 Non-PCN required	5 sites require NWP with PCNs; IP required.	Section 404 NWP 14 Non- PCN required	NWP Non-PCN required
Traffic Noise	Ultimate	Noise barriers proposed	Noise barriers proposed	No noise barriers proposed	Noise barriers proposed
	Interim*	Noise barriers proposed on both sides of SH 183 between Industrial Boulevard and Ector Drive, at a residential area on the north side of SH 183 just	One noise barrier remaining to be constructed per 2012 Re- evaluation	No noise barriers proposed	No noise barriers proposed

*Re-Evaluations for the interim phase are pending review and approval by FHWA; analyses provided in this table are subject to change.

SH 183 Managed Lanes Project - Permits/Commitments/Mitigation

Project Issue/ Resource	Phase	SH 183 Segment 2E: SH 183 from SH 121/SH 183 to SH 161 Transition	SH 183 from SH 161 to I-35E (excludes Carl Rd. to SH 114)	SH 114 from International Parkway to SH 183	Loop 12 from SH 183 to I- 35E: toll lanes
		west of Fuller Wiser Road, and opposite a residential area on the south side of SH 183 immediately west of the Bear Creek Parkway crossing			
Historic	Ultimate	No impacts to historic	No impacts to historic	No impacts to historic	No impacts to historic
Resources		resources	resources	resources	resources
	Interim*	No impacts to historic resources	No impacts to historic resources	No impacts to historic resources	No impacts to historic resources
Hazardous Materials	Ultimate	Numerous regulatory facilities with recognized environmental conditions identified	Further investigations during ROW acquisition	18 "high risk" sites were identified; Recommended that subsurface investigations be conducted prior to construction	3 "high risk" sites were identified; Further investigations during ROW acquisition
	Interim*	Ten (10) sites of potential concern identified within interim phase construction limits	Draft 2013 Re-evaluation recommends that seven sites previously identified in the approved 2004 EA as "high risk" be downgraded to "low risk"; No additional sites identified	HMMP to be developed	HMMP to be developed.
Section 408	Ultimate	N/A	Section 408 approval required	N/A	N/A
	Interim*	N/A	Section 408 approval required	N/A	N/A
Corridor	Ultimate	N/A	CDC required.	CDC required.	CDC required.
Development Certificate (CDC)	Interim*	N/A	CDC required.	CDC required.	CDC required.

*Re-Evaluations for the interim phase are pending review and approval by FHWA; analyses provided in this table are subject to change.

Texas Department of Transportation Technical Provisions

SH 183 Managed Lanes Project

Attachment 4-2 Special Specification 1122 Temporary Erosion, Sedimentation, and Environmental Controls

SPECIAL SPECIFICATION 1122

Temporary Erosion, Sedimentation, and Environmental Controls

1. Description. Install, maintain, and remove erosion, sedimentation, and environmental control measures to prevent or reduce the discharge of pollutants in accordance with the Storm Water Pollution Prevention Plan (SWP3) as provided in the plans and the Texas Pollutant Discharge Elimination System (TPDES) General Permit TXR150000. Control measures are defined as Best Management Practices used to prevent or reduce the discharge of pollutants. Control measures include but are not limited to rock filter dams, temporary pipe slope drains, temporary paved flumes, construction exits, earthwork for erosion control, pipe, construction perimeter fence, sandbags, temporary sediment control fence, biodegradable erosion control logs, vertical tracking, temporary or permanent seeding, and other measures. Perform work in a manner to prevent degradation of receiving waters, facilitate project construction, and comply with applicable federal, state, and local regulations. Ensure the installation and maintenance of control measures is performed in accordance with the manufacturer's or designer's specifications.

By signing the Contractor Certification of Compliance, the Contractor certifies they have read and understand the requirements applicable to this project pertaining to the SWP3, the plans, and the TPDES General Permit TXR150000. The Contractor is responsible for any penalties associated with non-performance of installation or maintenance activities required for compliance. Provide the Contractor Certification of Compliance to the Engineer prior to performing earthwork operations. The most current version of the Contractor Certification of Compliance can be found at http://txdot.gov/business/ems_courses.htm. A sample of the language has been attached to this specification. Ensure the most current version of the certificate is executed for this project.

- 2. Materials. Furnish materials in accordance with the following:
 - Item 161, "Compost"
 - Item 432, "Riprap"
 - Item 556, "Pipe Underdrains"

A. Rock Filter Dams.

- **1. Aggregate.** Furnish aggregate with hardness, durability, cleanliness, and resistance to crumbling, flaking, and eroding acceptable to the Engineer. Provide the following:
 - Types 1, 2, and 4 Rock Filter Dams. Use 3 to 6 in. aggregate.
 - Type 3 Rock Filter Dams. Use 4 to 8 in. aggregate.
- **2.** Wire. Provide minimum 20 gauge galvanized wire for the steel wire mesh and tie wires for Types 2 and 3 rock filter dams. Type 4 dams require:

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- A double-twisted, hexagonal weave with a nominal mesh opening of 2-1/2 in. x 3-1/4 in.;
- Minimum 0.0866 in. steel wire for netting;
- Minimum 0.1063 in. steel wire for selvages and corners; and minimum 0.0866 in. for binding or tie wire.
- **3.** Sandbag Material. Furnish sandbags meeting "Sandbags for Erosion Control," except that any gradation of aggregate may be used to fill the sandbags.
- **B.** Temporary Pipe Slope Drains. Provide corrugated metal pipe, polyvinyl chloride (PVC) pipe, flexible tubing, watertight connection bands, grommet materials, prefabricated fittings, and flared entrance sections that conform to the plans. Recycled and other materials meeting these requirements are allowed if approved.

Furnish concrete in accordance with Item 432, "Riprap."

- **C. Temporary Paved Flumes.** Furnish asphalt concrete, hydraulic cement concrete, or other comparable non-erodible material that conforms to the plans. Provide rock or rubble with a minimum diameter of 6 in. and a maximum volume of 1/2 cu. ft. for the construction of energy dissipaters.
- **D.** Construction Exits. Provide materials that meet the details shown on the plans and this Section.
 - 1. Rock Construction Exit. Provide crushed aggregate for long and short-term construction exits. Furnish aggregates that are clean, hard, durable, and free from adherent coatings such as salt, alkali, dirt, clay, loam, shale, soft or flaky materials and organic and injurious matter. Use 4- to 8-in. aggregate for Type 1 and 2- to 4-in. aggregate for Type 3.
 - 2. Timber Construction Exit. Furnish No. 2 quality or better railroad ties and timbers for long-term construction exits, free of large and loose knots and treated to control rot. Fasten timbers with nuts and bolts or lag bolts, of at least 1/2 in. diameter, unless otherwise shown on the plans or allowed. For short-term exits, provide plywood or pressed wafer board at least 1/2 in. thick.
 - **3.** Foundation Course. Provide a foundation course consisting of flexible base, bituminous concrete, hydraulic cement concrete, or other materials as shown on the plans or directed.
- **E. Embankment for Erosion Control.** Provide rock, loam, clay, topsoil, or other earth materials that will form a stable embankment to meet the intended use.
- **F. Pipe.** Provide pipe outlet material in accordance with Item 556, "Pipe Underdrains," and details shown on the plans.

G. Construction Perimeter Fence.

- 1. **Posts.** Provide essentially straight wood or steel posts that are at least 60 in. long. Furnish soft wood posts with a minimum diameter of 3 in. or use 2 x 4 boards. Furnish hardwood posts with a minimum cross-section of 1-1/2 x 1-1/5 in. Furnish T- or L-shaped steel posts with a minimum weight of 1.3 lb. per foot.
- 2. Fence. Provide orange construction fencing as approved by the Engineer.
- **3.** Fence Wire. Provide 12-1/2 gauge or larger galvanized smooth or twisted wire. Provide 16 gauge or larger tie wire.
- **4. Flagging.** Provide brightly-colored flagging that is fade-resistant and at least 3/4 in. wide to provide maximum visibility both day and night.
- 5. Staples. Provide staples with a crown at least 1/2 in. wide and legs at least 1/2 in. long.
- 6. Used Materials. Previously used materials meeting the applicable requirements may be used if accepted by the Engineer.
- **H.** Sandbags. Provide sandbag material of polypropylene, polyethylene, or polyamide woven fabric with a minimum unit weight of 4 oz. per square yard, a Mullen burst-strength exceeding 300 psi, and an ultraviolet stability exceeding 70%.

Use natural coarse sand or manufactured sand meeting the gradation given in Table 1 to fill sandbags. Filled sandbags must be 24 to 30 in. long, 16 to 18 in. wide, and 6 to 8 in. thick.

Sand Gradation					
Sieve #	Retained (% by Weight)				
4	MAXIMUM 3%				
100	MINIMUM 80%				
200	MINIMUM 95%				

Table 1 and Gradation

Aggregate may be used in lieu of sand for situations where sandbags are not adjacent to traffic. The aggregate size shall not exceed 3/8 in.

- **I. Temporary Sediment Control Fence.** Provide a net-reinforced fence using woven geotextile fabric. Logos visible to the traveling public will not be allowed.
 - **1. Fabric.** Provide fabric materials in accordance with DMS-6230, "Temporary Sediment Control Fence Fabric."
 - 2. Posts. Provide essentially straight wood or steel posts with a minimum length of 48 in., unless otherwise shown on the plans. Soft wood posts must be at least 3 in. in diameter or nominal 2 x 4in. Hardwood posts must have a minimum cross-section of 1-1/2 x 1-1/2 in. T- or L-shaped steel posts must have a minimum weight of 1.3 lb. per foot.

- 3. Net Reinforcement. Provide net reinforcement of at least 12-1/2 gauge galvanized welded wire mesh, with a maximum opening size of 2×4 in., at least 24 in. wide, unless otherwise shown on the plans.
- 4. Staples. Provide staples with a crown at least 3/4 in. wide and legs 1/2 in. long.
- 5. Used Materials. Use recycled material meeting the applicable requirements if accepted by the Engineer.

J. Biodegradable Erosion Control Logs.

- 1. Core Material. Furnish core material that is biodegradable or recyclable. Except where specifically called out in plans, material may be compost, mulch, aspen excelsior wood fibers, chipped site vegetation, agricultural rice or wheat straw, coconut fiber, 100% recyclable fibers, or any other acceptable material. No more than 5% of the material is permitted to escape from the containment mesh. Furnish compost meeting the requirements of Item 161, "Compost."
- 2. Containment Mesh. Furnish containment mesh that is 100% biodegradable, photodegradable or recyclable such as burlap, twine, UV photodegradable plastic, polyester, or any other acceptable material.
 - **a.** Furnish biodegradable or photodegradable containment mesh when log will remain in place as part of a vegetative system.
 - **b.** Furnish recyclable containment mesh for temporary installations.
- **3.** Size. Furnish biodegradable erosion control logs with diameters shown on the plans or as directed. Stuff containment mesh densely so logs do not deform.

3. Qualifications, Training, and Employee Requirements.

A. Contractor Responsible Person Environmental (CRPe) Qualifications and

Responsibilities. Provide and designate in writing at the preconstruction conference a CRPe who has overall responsibility for the storm water management program. The CRPe will identify and implement storm water and erosion control practices; will oversee and observe storm water control measure monitoring and management; will monitor the project site daily to ensure compliance with the SWP3 and TPDES General Permit TXR150000; and will document daily monitoring reports and provide the reports to the Department within 48 hours. The CRPe will provide recommendations to the Engineer on how to improve the effectiveness of control measures. Attend the Department's preconstruction conference for the project. Administer the training identified in Article 3.C. *Training*. Document and submit a list to the Engineer of employees who have completed the training. The list should include the employee's name, the training course name, and date the employee completed the training. Provide the most current list to the Engineer at the preconstruction conference or prior to earth disturbing activities. Maintain the list as needed and make available for inspection.

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- **B.** Contractor Superintendent Qualifications and Responsibilities. Provide a superintendent that is competent and has experience with and knowledge of storm water management and is knowledgeable of the requirements and the conditions of the TPDES General Permit TXR150000. The superintendent is responsible for managing and overseeing the day to day operations and activities at the project site; working with the CRPe to provide effective storm water management at the project site; representing and acting on-behalf of the Contractor; and attending the Department's preconstruction conference for the project.
- **C. Training.** All Contractor and subcontractor employees directly involved in the earthwork activities, small or large structures, storm water control measures, and seeding activities are required to complete the training identified by the Department prior to working in the right of way. Training may take place at a location at the discretion of the Contractor.

4. Construction.

- A. Contractor Responsibilities. Implement the SWP3 for the project site in accordance with in accordance with the plans and specifications, TPDES General Permit TXR150000, and as directed by the Engineer. Coordinate storm water management with all other work on the project. Develop and implement an SWP3 for project-specific material supply plants within and outside of the Department's right of way in accordance with the specific or general storm water permit requirements. Prevent water pollution from storm water associated with construction activity from entering any surface water or private property on or adjacent to the project site.
- **B.** Implementation. The CRPe, or an alternate, must be accessible by phone and able to respond to storm water management emergencies 24 hours per day.
 - 1. Commencement. Implement the SWP3 as shown and as directed. Contractor proposed recommendations for changes will be allowed as approved. Conform to the established guidelines in the TPDES General Permit TXR150000 to make changes. Do not implement changes until approval has been received and changes have been incorporated into the plans by the Engineer. Minor adjustments to meet field conditions are allowed and will be recorded by the Engineer in the SWP3.
 - 2. Phasing. Implement control measures prior to the commencement of activities that result in soil disturbance. Phase and minimize the soil disturbance to the areas shown on the plans. Coordinate temporary control measures with permanent control measures and all other work activities on the project to assure economical, effective, safe, continuous water pollution prevention. Provide control measures that are appropriate to the construction means, methods, and sequencing allowed by the Contract. Exercise precaution throughout the life of the project to prevent pollution of ground waters and surface waters. Schedule and perform clearing and grubbing operations so that stabilization measures will follow immediately thereafter if project conditions permit. Bring all grading sections to final grade as soon as possible and implement temporary and permanent control measures at the earliest time possible. Implement temporary control measures when required by the TPDES General Permit TXR150000 or otherwise necessitated by project conditions.

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Do not prolong final grading and shaping. Preserve vegetation where possible throughout the project and minimize clearing, grubbing, and excavation within stream banks, bed, and approach sections.

C. General.

- **1. Temporary Alterations or Control Measure Removal.** Altering or removal of control measures is allowed when control measures are restored within the same working day.
- **2. Stabilization.** Initiate stabilization for disturbed areas no more than 14 days after the construction activities in that portion of the site has temporarily or permanently ceased. Establish a uniform vegetative cover or utilize another stabilization practice in accordance with the TPDES General Permit TXR150000.
- **3. Finished Work.** Upon the Engineer's acceptance of vegetative cover or other stabilization practice, remove and dispose of all temporary control measures unless otherwise directed. Complete soil disturbing activities and establish a uniform perennial vegetative cover. A project will not be considered for acceptance until a vegetative cover of 70% density of existing adjacent undisturbed areas is obtained or equivalent permanent stabilization is obtained in accordance with the TPDES General Permit TXR150000. An exception will be allowed in arid areas as defined in the TPDES General Permit TXR150000.
- 4. Restricted Activities and Required Precautions. Do not discharge onto the ground or surface waters any pollutants such as chemicals, raw sewage, fuels, lubricants, coolants, hydraulic fluids, bitumens, or any other petroleum product. Operate and maintain equipment on site in a manner as to prevent actual or potential water pollution. Manage, control, and dispose of litter on site such that no adverse impacts to water quality occur. Prevent dust from creating a potential or actual unsafe condition, public nuisance, or condition endangering the value, utility, or appearance of any property. Wash out concrete trucks only as described in the TPDES General Permit TXR150000. Utilize appropriate controls to minimize the offsite transport of suspended sediments and other pollutants if it is necessary to pump or channel standing water (i.e. dewatering). Prevent discharges that would contribute to a violation of Edwards Aquifer Rules, water quality standards, the impairment of a listed water body, or other state or federal law.
- **D. Installation, Maintenance, and Removal Work.** Perform work in accordance with the SWP3, according to manufacturers' guidelines, and in accordance with the TPDES General Permit TXR150000. Install and maintain the integrity of temporary erosion and sedimentation control devices to accumulate silt and debris until earthwork construction and permanent erosion control features are in place or the disturbed area has been adequately stabilized as determined by the Engineer.

The Department will inspect and document the condition of the control measures at the frequency shown on the plans and will provide the Construction SWP3 Field Inspection and Maintenance Reports to the Contractor. Make corrections as soon as possible before the next anticipated rain event or within 7 calendar days after being able to enter the work site for each control measure.

The only acceptable reason for not accomplishing the corrections with the time frame specified is when site conditions are "Too Wet to Work". If a correction is deemed critical by the Engineer, immediate action is required. When corrections are not made within the established time frame, all work will cease on the project and time charges will continue while the control measures are brought into compliance. Once the Engineer reviews and documents the project is in compliance, work may commence. Commencing work does not release the contractor of the liability for noncompliance of the SWP3, plans, or TPDES General Permit TXR150000.

The Engineer may limit the disturbed area if in the opinion of the Engineer the Contractor cannot control soil erosion and sedimentation resulting from the Contractor's operations. Implement additional controls as directed.

Remove devices upon approval or as directed. Upon removal, finish-grade and dress the area. Stabilize disturbed areas in accordance with the permit, and as shown on the plans or directed. The Contractor retains ownership of stockpiled material and must remove it from the project when new installations or replacements are no longer required.

1. Rock Filter Dams for Erosion Control. Remove trees, brush, stumps, and other objectionable material that may interfere with the construction of rock filter dams. Place sandbags as a foundation when required or at the Contractor's option.

For Types 1, 2, 3, and 5, place the aggregate to the lines, height, and slopes specified, without undue voids. For Types 2 and 3, place the aggregate on the mesh and then fold the mesh at the upstream side over the aggregate and secure it to itself on the downstream side with wire ties, or hog rings, or as directed. Place rock filter dams perpendicular to the flow of the stream or channel unless otherwise directed. Construct filter dams according to the following criteria, unless otherwise shown on the plans:

a. Type 1 (Non-reinforced).

- (1) **Height.** At least 18 in. measured vertically from existing ground to top of filter dam.
- (2) Top Width. At least 2 ft.
- (3) Slopes. At most 2:1.

b. Type 2 (Reinforced).

- (1) Height. At least 18 in. measured vertically from existing ground to top of filter dam.
- (2) Top Width. At least 2 ft.
- (3) Slopes. At most 2:1.

c. Type 3 (Reinforced).

- (1) **Height.** At least 36 in. measured vertically from existing ground to top of filter dam.
- (2) Top Width. At least 2 ft.
- (3) **Slopes.** At most 2:1.
- **d. Type 4 (Sack Gabions).** Unfold sack gabions and smooth out kinks and bends. For vertical filling, connect the sides by lacing in a single loop–double loop pattern on 4-to 5-in. spacing. At one end, pull the end lacing rod until tight, wrap around the end, and twist 4 times. At the filling end, fill with stone, pull the rod tight, cut the wire with approximately 6 in. remaining, and twist wires 4 times.

For horizontal filling, place sack flat in a filling trough, fill with stone, and connect sides and secure ends as described above.

Lift and place without damaging the gabion. Shape sack gabions to existing contours.

e. Type 5. Provide rock filter dams as shown on the plans.

- 2. Temporary Pipe Slope Drains. Install pipe with a slope as shown on the plans or as directed. Construct embankment for the drainage system in 8-in. lifts to the required elevations. Hand-tamp the soil around and under the entrance section to the top of the embankment as shown on the plans or as directed. Form the top of the embankment or earth dike over the pipe slope drain at least 1 ft. higher than the top of the inlet pipe at all points. Secure the pipe with hold-downs or hold-down grommets spaced a maximum of 10 ft. on center. Construct the energy dissipaters or sediment traps as shown on the plans or as directed. Construct the sediment trap using concrete or rubble riprap in accordance with Item 432, "Riprap," when designated on the plans.
- **3. Temporary Paved Flumes.** Construct paved flumes as shown on the plans or as directed. Provide excavation and embankment (including compaction of the subgrade) of material to the dimensions shown on the plans, unless otherwise indicated. Install a rock or rubble riprap energy dissipater, constructed from the materials specified above to a minimum depth of 9 in. at the flume outlet to the limits shown on the plans or as directed.
- 4. Construction Exits. When tracking conditions exist, prevent traffic from crossing or exiting the construction site or moving directly onto a public roadway, alley, sidewalk, parking area, or other right of way areas other than at the location of construction exits. Construct exits for either long or short-term use.
 - **a.** Long-Term. Place the exit over a foundation course, if necessary. Grade the foundation course or compacted subgrade to direct runoff from the construction exits to a sediment trap as shown on the plans or as directed. Construct exits with a

width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed.

- (1) **Type 1.** Construct to a depth of at least 8 in. using crushed aggregate as shown on the plans or as directed.
- (2) Type 2. Construct using railroad ties and timbers as shown on the plans or as directed.

b. Short-Term.

- (1) **Type 3.** Construct using crushed aggregate, plywood, or wafer board. This type of exit may be used for daily operations where long-term exits are not practical.
- (2) Type 4. Construct as shown on the plans or as directed.
- 5. Earthwork for Erosion Control. Perform excavation and embankment operations to minimize erosion and to remove collected sediments from other erosion control devices.
 - **a.** Excavation and Embankment for Erosion Control Features. Place earth dikes, swales, or combinations of both along the low crown of daily lift placement, or as directed, to prevent runoff spillover. Place swales and dikes at other locations as shown on the plans or as directed to prevent runoff spillover or to divert runoff. Construct cuts with the low end blocked with undisturbed earth to prevent erosion of hillsides. Construct sediment traps at drainage structures in conjunction with other erosion control measures as shown on the plans or as directed.

Where required, create a sediment basin providing 3,600 cu. ft. of storage per acre drained, or equivalent control measures for drainage locations that serve an area with 10 or more disturbed acres at one time, not including offsite areas.

- **b. Excavation of Sediment and Debris.** Remove sediment and debris when accumulation affects the performance of the devices, after a rain, and when directed.
- 6. Construction Perimeter Fence. Construct, align, and locate fencing as shown on the plans or as directed.
 - **a. Installation of Posts.** Embed posts 18 in. deep or adequately anchor in rock, with a spacing of 8 to 10 ft.
 - **b. Wire Attachment.** Attach the top wire to the posts at least 3 ft. from the ground. Attach the lower wire midway between the ground and the top wire.
 - **c. Flag Attachment.** Attach flagging to both wire strands midway between each post. Use flagging at least 18 in. long. Tie flagging to the wire using a square knot.
- 7. Sandbags for Erosion Control. Construct a berm or dam of sandbags that will intercept sediment-laden storm water runoff from disturbed areas, create a retention pond, detain

9-17 1122 08-12 sediment, and release water in sheet flow. Fill each bag with sand so that at least the top 6 in. of the bag is unfilled to allow for proper tying of the open end. Place the sandbags with their tied ends in the same direction. Offset subsequent rows of sandbags 1/2 the length of the preceding row. Place a single layer of sandbags downstream as a secondary debris trap. Place additional sandbags as necessary or as directed for supplementary support to berms or dams of sandbags or earth.

- 8. Temporary Sediment-Control Fence. Provide temporary sediment-control fence near the downstream perimeter of a disturbed area to intercept sediment from sheet flow. Incorporate the fence into erosion-control measures used to control sediment in areas of higher flow. Install the fence as shown on the plans, as specified in this Section, or as directed.
 - **a.** Installation of Posts. Embed posts at least 18 in. deep, or adequately anchor, if in rock, with a spacing of 6 to 8 ft. and install on a slight angle toward the run-off source.
 - **b.** Fabric Anchoring. Dig trenches along the uphill side of the fence to anchor 6 to 8 in. of fabric. Provide a minimum trench cross-section of $6 \ge 6$ in. Place the fabric against the side of the trench and align approximately 2 in of fabric along the bottom in the upstream direction. Backfill the trench, then hand-tamp.
 - **c. Fabric and Net Reinforcement Attachment.** Unless otherwise shown under the plans, attach the reinforcement to wooden posts with staples, or to steel posts with T-clips, in at least 4 places equally spaced. Sewn vertical pockets may be used to attach reinforcement to end posts. Fasten the fabric to the top strand of reinforcement by hog rings or cord every 15 in. or less.
 - **d. Fabric and Net Splices**. Locate splices at a fence post with a minimum lap of 6 in. attached in at least 6 places equally spaced, unless otherwise shown under the plans. Do not locate splices in concentrated flow areas.

Requirements for installation of used temporary sediment-control fence include the following:

- fabric with minimal or no visible signs of biodegradation (weak fibers),
- fabric without excessive patching (more than 1 patch every 15 to 20 ft.),
- posts without bends, and
- backing without holes.
- **9. Biodegradable Erosion Control Logs.** Install biodegradable erosion control logs near the downstream perimeter of a disturbed area to intercept sediment from sheet flow. Incorporate the biodegradable erosion control logs into the erosion measures used to control sediment in areas of higher flow. Install, align and locate the biodegradable erosion control logs as specified below, as shown in plans or as directed.

Secure biodegradable erosion control logs in a method adequate to prevent displacement as a result of normal rain events, prevent damage to the logs, and to the satisfaction of the Engineer such that flow is not allowed under the logs. Temporarily removing and replacing biodegradable erosion logs as to facilitate daily work is allowed at the Contractor's expense.

- **10. Vertical Tracking.** Perform vertical tracking on slopes to temporarily stabilize soil. Provide equipment with a track undercarriage capable of producing a linear soil impression measuring a minimum of 12 inches in length by 2 to 4 inches in width by 1/2 to 2 inches in depth. Do not exceed 12 inches between track impressions. Install continuous linear track impressions where the 12 inch length impressions are perpendicular to the slope.
- **E.** Monitoring and Documentation. Monitor the control measures on a daily basis. Monitoring will consist of, but is not limited to, observing, inspecting, and documenting site locations with control measures and discharge points to provide maintenance and inspection of controls as described in the SWP3. Keep written records of daily monitoring. Document in the daily monitoring report the control measure condition, the date of inspection, required corrective actions, responsible person for making the corrections, and the date corrective actions were completed. Maintain records of all monitoring reports at the project site or at a place approved by the Engineer. Provide copies to the Engineer. Together, the CRPe and an Engineer's representative will complete the Construction Stage Gate Checklist on a periodic basis as determined by the Engineer.

5. Measurement.

- A. Rock Filter Dams. Installation or removal of rock filter dams will be measured by the foot or by the cubic yard. The measured volume will include sandbags, when used.
 - 1. Linear Measurement. When rock filter dams are measured by the foot, measurement will be along the centerline of the top of the dam.
 - 2. Volume Measurement. When rock filter dams are measured by the cubic yard, measurement will be based on the volume of rock computed by the method of average end areas.
 - a. Installation. Measurement will be made in final position.

b. Removal. Measurement will be made at the point of removal.

- **B.** Temporary Pipe Slope Drains. Temporary pipe slope drains will be measured by the foot.
- **C. Temporary Paved Flumes.** Temporary paved flumes will be measured by the square yard of surface area. The measured area will include the energy dissipater at the flume outlet.
- **D.** Construction Exits. Construction exits will be measured by the square yard of surface area.

E. Earthwork for Erosion and Sediment Control.

- 1. Equipment and Labor Measurement. Equipment and labor used will be measured by the actual number of hours the equipment is operated and the labor is engaged in the work.
- 2. Volume Measurement.

a. In Place.

- (1) Excavation. Excavation will be measured by the cubic yard in its original position and the volume computed by the method of average end areas.
- (2) **Embankment.** Embankment will be measured by the cubic yard in its final position by the method of average end areas. The volume of embankment will be determined between:
 - the original ground surfaces or the surface upon that the embankment is to be constructed for the feature and
 - the lines, grades and slopes of the accepted embankment for the feature.
- **b.** In Vehicles. Excavation and embankment quantities will be combined and paid for under "Earthwork (Erosion and Sediment Control, In Vehicle)." Excavation will be measured by the cubic yard in vehicles at the point of removal. Embankment will be measured by the cubic yard in vehicles measured at the point of delivery. Shrinkage or swelling factors will not be considered in determining the calculated quantities.
- F. Construction Perimeter Fence. Construction perimeter fence will be measured by the foot.
- **G.** Sandbags for Erosion Control. Sandbags will be measured as each sandbag or by the foot along the top of sandbag berms or dams.
- **H.** Temporary Sediment-Control Fence. Installation or removal of temporary sediment-control fence will be measured by the foot.
- I. Biodegradable Erosion Control Logs. Installation or removal of biodegradable erosion control logs will be measured by the linear foot along the centerline of the top of the control logs.
- J. Vertical Tracking. Vertical tracking will not be measured or paid for directly but is considered subsidiary to this Item.
- 6. Payment. The following will not be paid for directly but are subsidiary to pertinent Items:
 - erosion-control measures for Contractor project-specific locations (PSLs) inside and outside the right of way (such as construction and haul roads, field offices, equipment and supply areas, plants, and material sources);

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- removal of litter; unless a separate pay item is shown in the plans.
- repair to devices and features damaged by Contractor operations;
- added measures and maintenance needed due to negligence, carelessness, lack of maintenance, and failure to install permanent controls;
- removal and reinstallation of devices and features needed for the convenience of the Contractor;
- finish grading and dressing upon removal of the device; and
- minor adjustments including but not limited to plumbing posts, reattaching fabric, minor grading to maintain slopes on an erosion embankment feature, or moving small numbers of sandbags.

Stabilization of disturbed areas will be paid for under pertinent Items.

Furnishing and installing pipe for outfalls associated with sediment traps and ponds will not be paid for directly but is subsidiary to the excavation and embankment under this Item.

- **A.** Rock Filter Dams. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid as follows:
 - 1. Installation. Installation will be paid for as "Rock Filter Dams (Install)" of the type specified. This price is full compensation for furnishing and operating equipment, finish backfill and grading, lacing, proper disposal, labor, materials, tools, and incidentals.
 - 2. **Removal.** Removal will be paid for as "Rock Filter Dams (Remove)." This price is full compensation for furnishing and operating equipment, proper disposal, labor, materials, tools, and incidentals.

When the Engineer directs that the rock filter dam installation or portions thereof be replaced, payment will be made at the unit price bid for "Rock Filter Dams (Remove)" and for "Rock Filter Dams (Install)" of the type specified. This price is full compensation for furnishing and operating equipment, finish backfill and grading, lacing, proper disposal, labor, materials, tools, and incidentals.

B. Temporary Pipe Slope Drains. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Temporary Pipe Slope Drains" of the size specified. This price is full compensation for furnishing materials, removal and disposal, furnishing and operating equipment, labor, tools, and incidentals.

Removal of temporary pipe slope drains will not be paid for directly but is subsidiary to the installation Item. When the Engineer directs that the pipe slope drain installation or portions thereof be replaced, payment will be made at the unit price bid for "Temporary Pipe Slope Drains" of the size specified, which is full compensation for the removal and reinstallation of the pipe drain.

1122 08-12 Earthwork required for the pipe slope drain installation, including construction of the sediment trap, will be measured and paid for under "Earthwork for Erosion and Sediment Control."

Riprap concrete or stone, when used as an energy dissipater or as a stabilized sediment trap, will be measured and paid for in accordance with Item 432, "Riprap."

C. Temporary Paved Flumes. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Temporary Paved Flume (Install)" or "Temporary Paved Flume (Remove)." This price is full compensation for furnishing and placing materials, removal and disposal, equipment, labor, tools, and incidentals.

When the Engineer directs that the paved flume installation or portions thereof be replaced, payment will be made at the unit prices bid for "Temporary Paved Flume (Remove)" and "Temporary Paved Flume (Install)." These prices are full compensation for the removal and replacement of the paved flume and for equipment, labor, tools, and incidentals.

Earthwork required for the paved flume installation, including construction of a sediment trap, will be measured and paid for under "Earthwork for Erosion and Sediment Control."

D. Construction Exits. Contractor-required construction exits from off right of way locations or on-right of way PSLs will not be paid for directly but are subsidiary to pertinent Items.

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" for construction exits needed on right of way access to work areas required by the Department will be paid for at the unit price bid for "Construction Exits (Install)" of the type specified or "Construction Exits (Remove)." This price is full compensation for furnishing and placing materials, excavating, removal and disposal, cleaning vehicles, labor, tools, and incidentals.

When the Engineer directs that a construction exit or portion thereof be removed and replaced, payment will be made at the unit prices bid for "Construction Exit (Remove)" and "Construction Exit (Install)" of the type specified. These prices are full compensation for the removal and replacement of the construction exit and for equipment, labor, tools, and incidentals.

Construction of sediment traps used in conjunction with the construction exit will be measured and paid for under "Earthwork for Erosion and Sediment Control."

E. Earthwork for Erosion and Sediment Control.

1. Initial Earthwork for Erosion and Sediment Control. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Excavation (Erosion and Sediment Control, In Place)", "Embankment (Erosion and Sediment Control, In Place)", "Excavation (Erosion and Sediment Control, In Vehicle)", "Embankment (Erosion and

Sediment Control, In Vehicle)", or "Earthwork (Erosion and Sediment Control, In Vehicle)".

This price is full compensation for excavation and embankment including hauling, disposal of material not used elsewhere on the project; embankments including furnishing material from approved sources and construction of erosion-control features; equipment, labor; tools, and incidentals.

Sprinkling and rolling required by this Item will not be paid for directly, but will be subsidiary to this Item.

2. Maintenance Earthwork for Erosion and Sediment Control for Cleaning and/or Restoring Control Measures. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for by a Contractor Force Account Item.

This price is full compensation for excavation, embankment, and re-grading including removal of accumulated sediment in various erosion control installations as directed, hauling, and disposal of material not used elsewhere on the project; excavation for construction of erosion-control features; embankments including furnishing material from approved sources and construction of erosion-control features; and equipment, labor; tools, and incidentals.

Earthwork needed to remove and obliterate of erosion-control features will not be paid for directly but is subsidiary to pertinent Items unless otherwise shown on the plans.

Sprinkling and rolling required by this Item will not be paid for directly, but will be subsidiary to this Item.

F. Construction Perimeter Fence. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Construction Perimeter Fence." This price is full compensation for furnishing and placing the fence; digging, fence posts, wire, and flagging; removal and disposal; and materials, equipment, labor, tools, and incidentals.

Removal of construction perimeter fence will be not be paid for directly but is subsidiary to the installation Item. When the Engineer directs that the perimeter fence installation or portions thereof be removed and replaced, payment will be made at the unit price bid for "Construction Perimeter Fence," which is full compensation for the removal and reinstallation of the construction perimeter fence.

G. Sandbags for Erosion Control. Sandbags will be paid for at the unit price bid for "Sandbags for Erosion Control" (of the height specified when measurement is by the foot). This price is full compensation for materials, placing sandbags, removal and disposal, equipment, labor, tools, and incidentals.

Removal of sandbags will not be paid for directly but is subsidiary to the installation Item. When the Engineer directs that the sandbag installation or portions thereof be replaced,

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payment will be made at the unit price bid for "Sandbags for Erosion Control," which is full compensation for the reinstallation of the sandbags.

- **H**. **Temporary Sediment-Control Fence.** The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid as follows:
 - **1. Installation.** Installation will be paid for as "Temporary Sediment-Control Fence (Install)." This price is full compensation for furnishing and operating equipment finish backfill and grading, lacing, proper disposal, labor, materials, tools, and incidentals.
 - 2. **Removal.** Removal will be paid for as "Temporary Sediment-Control Fence (Remove)." This price is full compensation for furnishing and operating equipment, proper disposal, labor, materials, tools, and incidentals.
- I. Biodegradable Erosion Control Logs. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid as follows:
 - 1. **Installation.** Installation will be paid for as "Biodegradable Erosion Control Logs (Install)" of the size specified. This price is full compensation for furnishing and operating equipment finish backfill and grading, staking, proper disposal, labor, materials, tools, and incidentals.
 - **2. Removal.** Removal will be paid for as "Biodegradable Erosion Control Logs (Remove)." This price is full compensation for furnishing and operating equipment, proper disposal, labor, materials, tools, and incidentals.
- **J.** Vertical Tracking. Vertical tracking will not be measured or paid for directly but is considered subsidiary to this Item.

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CONTRACTOR CERTIFICATION OF COMPLIANCE WITH STORM WATER REQUIREMENTS

I, ________ certify that I am the duly appointed representative of the Contractor with authority to make this Contractor certification. I have read and understand the requirements applicable to this project pertaining to storm water discharge authorization under Texas Pollutant Discharge Elimination System (TPDES) General Permit (GP) TXR150000. The Contractor agrees to comply with the terms of the permit that are expressly stated in the contract documents as being the responsibility of the Contractor. I have read and understand the Storm Water Pollution Prevention Plan (SWP3) developed by the Department for this project. The Contractor agrees it will be implemented prior to construction according to permit requirements and the contract documents. I understand that failure to comply with the terms of the permit that are expressly stated in the contract documents, plans, and specifications as being the responsibility of the Contractor may result in civil penalties.

The Contractor acknowledges its responsibility to satisfy the following requirements:

- Implement the SWP3 for the project in accordance with the plans and specifications and the TPDES GP TXR150000.
- Install and maintain control measures on the project in accordance with the manufacturer's or designer's specifications.
- Collaborate with the Department for joint monitoring of best management practices (BMPs) on a regular basis to verify that BMPs are performing as intended in accordance with the plans and specifications and with TPDES GP TXR150000.
- Collaborate with the Department for joint identification of EMP maintenance needs and carry out such maintenance in accordance with the plans and specifications, TPDES GP TXR150000 and as directed by the Engineer.
- Repair the integrity of any BMP as directed by the Engineer as soon as reasonably possible.

If appropriate, recommend changes needed in the SWP3 to the Engineer in order to prevent, to the extent practicable, water pollution associated with construction activities from entering any surface water or private property on or adjacent to the project site by storm water discharges.

- Stabilize disturbed areas, as soon as practicable, in accordance with the TPDES GP TXR150000 and as directed by the Engineer.
- If applicable, obtain appropriate authorizations for activities associated with any Project Specific Location under the authority of the Contractor and provide appropriate documentation of compliance to the Engineer.
- Satisfy any other responsibility indicated in the contract documents that are expressly stated as the responsibility of the Contractor.

Signature and Title:

Date: _____

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Texas Department of Transportation Technical Provisions

SH 183 Managed Lanes Project

Attachment 4-3 Form 2118 Construction Storm Water Pollution Prevention Plan Field Inspection and Maintenance Report

CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN FIELD INSPECTION AND MAINTENANCE REPORT

Project Information					
Inspection Cycle (select only one):	CSJ:	Inspection Date:			
At least once every 7 calendar days.	Project:	TCEQ Authorization No.:			
	Highway:	Date of Last Rainfall:			
At least once every 14 calendar days and within 24 hours after 0.5 inches or more of rainfall.	County:	Amount of Last Rainfall: (inche	es)		
□ *Other					

*For "other" options, the Engineer must verify compliance with Part III.F.7(a) of the TPDES Construction General Permit (CGP).

Inspected Best Management Practice (BMP)/Areas						
All of these BMPs/areas must be inspected when present on the right-of-way						
 Disturbed areas Discharge locations Erosion control BMPs Sediment control BMPs 	 Concrete truck washout areas Areas where litter/debris/trash collect Areas that generate dust Postings 	 Material stockpiles Areas where vehicles enter/leave site Portable sanitary facilities 	 Construction material storage areas Parking/equipment storage areas Chemical/fuel storage areas 			

Other

Corrective Actions, Maintenance, Upgrading or Additional Controls

Except the items listed below, all areas/BMPs indicated above have been inspected and do not require maintenance, upgrading or additional controls. If multiple highways or project locations are involved, identify the highway or project location of the BMPs/areas requiring maintenance or improvement. Document all changes to the SWP3.

Station(s) or Location	Left or Right of Centerline	Issue/BMP	Corrective Action		Priority*	Date of Corrective Action Completed
Other/Notes				Cause		
Other/Notes				Cause		
Other/Notes				Cause		
Other/Notes				Cause		
Other/Notes				Cause		

* High - must be addressed immediately; all other project work is stopped until issue is resolved.

Med - address as soon as practicable or as directed; other work can continue.

Low - address within 7 days or before the next rainfall event.

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Stabilization

When construction activities cease on a disturbed portion of the site for 21 or more days, stabilization must be initiated within 14 days unless excepted by Part III.F.2(b)(iii) of the CGP. Indicate the stabilization measures taken.

Station	Left or Right of Centerline	Stabilization Measure	Date Initiated	Other/Notes		
to						
to						
to						
to						
to						
Compliance Certification						

Check One and Complete Signature.

Title:

Date:

With the corrective actions noted (if any), the site is in compliance with the CGP regulations and the SWP3.

The site is in potential non-compliance with the CGP regulations and/or the SWP3. Potential non-compliance issues are described below.

TxDOT's Representative's Name (Print clearly):

TxDOT's Representative's Signature:

Potential Non-Compliance Issues

Potential non-compliance issues may include the failure to address previously noted corrective actions, repeated failure of a control measure, off-site discharges of sediment, off-site discharges of other pollutants, or other potential non-compliance issues identified in the CGP. Notify the Engineer immediately of any potential non-compliance issues.

Station	Left or Right of Centerline	Describe Potential Non-Compliance Issue		
to				
Contractor Notification				

Furnish a copy of this inspection report to the Contractor within one calendar day of the inspection. Corrective actions must be taken as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. If corrective actions are not made within this timeframe and become potential noncompliance issues, other work on the project may be suspended by the Engineer. Time charges will continue until the project is brought into compliance and documentation of corrective action is provided. This in no way releases the contractor of liability for noncompliance.

Contractor's Representative's Name (Print clearly):	Title:	Date:
Contractor's Representative's Signature:		

Inspection Certification

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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

TxDOT's Certifying Representative's Name (Print clearly):	Title:	Date:
TxDOT's Certifying Representative's Signature:		

Texas Department of Transportation Technical Provisions

SH 183 Managed Lanes Project

Attachment 4-4 Form 2448 Environmental Management System Construction Stage Gate Checklist



	Highway Project Number Pro		Projec	ct CCSJ	County	Area Office	
		Project P	ersonnel Complet	ing CSGC (Joir	t Inspection)		
	-	TxDOT Representative			Contractor R	Representative	
rint Name:				Print Name:			
Signature/Date: Signature/Date:							
-			CSGC Inspe	ction Period			
	Date of	beginning initial construction activiti			_		
From		Date of previous CSGC Inspection	(3) (1)	То	Date of	f this CSGC Inspection	
st Project P	Permits						
ational Fra	ironmontal Dalia (Ar						
	rironmental Policy Ad		d) //f		- 2)		
Yes N		the project limits or scope change coordination with Advance Planning		nplete questio	,		
torm Water		coordination with Advance Planning			ensure NEPA compliance?		
Yes N		the project require a Construction	Site Notice (CSN	1)2			
Yes N		CSN posted in a publicly accessib	,	,	struction activity is underwa		
Yes N		the CSN contain all required inform				xy :	
Yes N		the project require a Notice of Inte					
Yes N		NOI posted in a publicly accessible	. ,	vhere the con	struction activity is underwa	V?	
Yes N		the NOI contain all required inform				<u>, </u>	
Yes N	lo N/A 9. Does	the project have a Storm Water Po	ollution Preventic	on Plan (SWP	3)?		
]Yes 🗌 N	lo 🗌 N/A 10. Is th	nere a copy of the TCEQ Construct	ion General Perr	nit onsite or w	ith the SWP3?		
]Yes 🗌 N	lo 🗌 N/A 11. Is th	nere a copy of a Delegation of Auth	ority Letter autho	prizing the sig	ning of inspection reports in	the SWP3 file?	
]Yes 🗌 N	lo	ne SWP3 retained and available for	inspection at the	e work site tha	t generates the storm water	r? (If no, complete question 13)	
	13. Where is it located?						
]Yes 🗌 N		ne SWP3 updated for any changes	• • •	•			
]Yes 🗌 N		the SWP3 drawings updated for ch					
Yes N		ne description of construction and w			updated with the Contractor	?	
]Yes 🗌 N		the dates when major grading activ	·				
]Yes N							
Yes N	lo 🗌 N/A 19. Did	stabilization occur within 14 days a	at locations where	e soil disturbir	g activities have ceased?	(If yes, complete question 20)	

Highway	Project Number	Project CCSJ	County	Area Office
Yes No N/A 20. Is the	e stabilization documented? (i.e. D	WR's, methods, seeding rates, et	c)	
Yes No N/A 21. Did s	stabilization occur within 14 days a	t locations where work temporaril	y ceased (at least 21 days)? (I	f yes, complete question 22)
Yes No N/A 22. Is the	e stabilization documented? (i.e. D	WR's, methods, seeding rates, et	c)	
Yes No N/A 25. Are o	control measures installed in acco	rdance with the SWP3?		
Yes No N/A 26. Are o	control measures properly selected	5¢		
Yes No N/A 27. Are o	control measures performing?			
	control measures properly maintai			
	on-site accumulations of sediment			ediment near off-site inlets, etc)
	diment removed from control devi		-	
	itter, construction debris, and cons			ng outfalls, picked up daily)
	lidded dumpster on the project to a	•		
	e velocity dissipation devices (i.e.			and along the length of any
	nannel to provide a non-erosive flo		e water course?	
	e the inspections performed per th			
	deficiencies and nonconformance	· · · ·	s being addressed before off-site	e discharge occurs?
	controls in place to minimize off-sit			
	TxDOT approved PSLs on Right-o	-	·····	
	he contractor's on and off Right-of			,
	he contractor's on and off Right-or		•	SPSL?
	e contractor required to have a con		omplete questions 41 - 42)	
	e concrete washout area shown o			
	e concrete washout area properly			
	e inspection cycle option for this p complete questions 44 - 45)	roject "At least every 14 calendar	days and within 24 hours after 0.	5 inches of more of rainfail"?
Yes No 44. Is the	ere a rain gauge on the project?			
Yes No 45. Are t	here records documenting rainfall	amounts?		
Yes No N/A 46. Did t	he inspection summary report incl	ude the name of the inspector?		
Yes No N/A 47. Did t	he inspection summary report incl	ude the date(s) of the inspection?		
Yes No N/A 48. Did t	he inspection summary report incl	ude measures/area inspected?		
	he inspection summary report incl			
	he inspection summary report include at failed to operate as designed or pro		discharges of sediment or pollutants	s, BMPs that require maintenance,
	he SWP3 include appropriately sig			
	he SWP3 include the inspector qu			
	s the project require a Municipal S		64) permit? (If yes, complete q	uestion 54)
	e the MS4 operator(s) been notifie			,
	, , , ,			

Highway	Project Number	Project CCSJ	County	Area Office			
- Inginitay			county				
Jurisdictional Waters of the United	Jurisdictional Waters of the United States, including Wetlands						
	he proper USACE permits maintai			002.			
Yes No 58. Is clearance of off Right-of-Way PSLs required by a special condition of TxDOT's USACE permit? (If yes, complete question 59)							
Yes No 60. Are t	he BMPs for protecting wetlands a	and water of the US working effect	tively?				
	construction activities meeting all L	-	-				
Yes No 62. Are c	construction activities meeting all c	other USACE special permit condi	tions?				
Navigable Waters							
Yes No 63. Is a l	JS Coast Guard Section 9 permit	applicable? (If yes, complete qu	uestions 64 - 65)				
Yes No 64. Is the	US Coast Guard Section 9 perm	it maintained on site?					
	construction activities meeting US		nditions?				
	JSACE Section 10 permit applical		s 67 - 68)				
	e USACE Section 10 permit maint						
	construction activities meeting US/	ACE Section 10 permit conditions	?				
Edwards Aquifer							
	the project require an Edwards A		complete questions 70 - 73)				
	copy of the Water Pollution Abater						
	copy of the Contributing Zone Plar						
	project requirements met for ground		isposal of Wells, staging requirem	ents from WPAP, etc)			
Yes No 73. Are construction activities meeting permit conditions?							
International Boundary Water Commission (IBWC)							
Yes No 74. Is an IBWC License applicable? (If yes, complete questions 75 - 76)							
Yes No 75. Is the IBWC maintained on site?							
Yes No 76. Are construction activities meeting IBWC License conditions?							
Biological Resources							
Yes No N/A 77. Is work compliant with the plans for protection of vegetation, including trees?							
Yes No N/A 78. Are migratory bird nesting requirements being followed?							
Yes No N/A 79. Is the work compliant with the plans and/or mitigation requirements for protection of threatened or endangered species/habitats?							
Noise							
	here any proposed noise impacts'						
	e work being performed in accorda	ance with the hoise mitigation plan	1?				
Air Quality							
Yes No N/A 82. Are c	controls being practiced and are th	ey effective for minimizing dust?					

	Highway			Project Number	Project CCSJ	County	Area Office	
Yes	No	□ N/A	A 83. Were the procedures for the Texas Emission Reduction Plan or other incentive measures met and documented? (i.e. contractor is using highest tier level equipment and best fuel grade)					
2 Yes	No	N/A	A 84. Are measures being taken for reducing idling of equipment and vehicles?					
Cultura	Cultural Resources							
Yes	No	N/A	A 85. Are known historical and archeological properties being protected and preserved in accordance with the plans?					
Yes	No		86. Have	historical and archeological prope	erties been encountered during co	onstruction? (If yes, complete c	uestions 87 - 88)	
☐ Yes	No		87. Were	the historical and archeological p	properties protected?			
Yes	No		88. Were	the TxDOT Emergency Discover	y Guidelines followed?			
DSHS	DSHS Notification							
Yes	No		89. Is DS	HS notification(s) required? (if	yes, complete questions 90 - 92)			
Yes	No		90. Has [OSHS notification(s) been mailed?	?			
Yes	No		91. Was	the DSHS notification(s) postmark	ked at least 10 working days prior	to initiating demolition or renovat	ion?	
Yes	No	No 92. Were there any amendments to the DSHS notification(s)?						
Hazard	lous Ma	terials						
Yes	No	N/A	93. Are h	azardous materials mitigation and	d abatement procedures being foll	lowed?		
Yes	No		94. Have	unknown hazardous materials be	en encountered during constructi	on? (If yes, complete question	s 95 - 96)	
Yes	No	95. Have the proper TxDOT and agency contacts been made and documented?						
Yes	No		96. Has mitigation or abatement been addressed?					
Yes	No	97. Do the project plans include a soil and/or groundwater management plan? (If yes, complete question 98)						
Yes	No	No 98. Is the abatement/mitigation plan being adhered to?						
Yes	No		99. Has a spill of less than reportable quantity occurred? (If yes, complete question 100)					
Yes	No		100. Were Spill Response Plan procedures followed for reporting and cleanup?					
Yes 🗌	No		101. Has a spill of reportable quantity occurred? (If yes, complete question 102)					
Yes	No		102. Were Spill Response Plan procedures followed for reporting and cleanup?					
Change	Change Orders							
Yes	No			there change orders on this proje				
Yes	No		104. Are	change orders assessed for NEP	A re-evaluation and/or resource a	gency coordination?		
Yes	No		105. Do the change orders require environmental mitigation, abatement, or clearance actions? (If yes, complete question 106)					
Yes	No		106. Hav	e environmental mitigation, abate	ment, or clearance actions occurr	red?		

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Highway	Project Number	Project CCSJ	County	Area Office

SUMMARY OF PROJECT INSPECTION						
Reference Item Number	Finding		Person Responsible For Corrective Action (Print Name)	Date Corrective Action Expected To Be Completed	Date Corrective Action Completed	TxDOT Representative Verifying Completed Corrective Action
						Print Name:
						Signature:
						Print Name:
						Signature:
						Print Name:
						Signature:
						Print Name:
						Signature:
Comments						
Reviewer (O		a				
Print Name:	:	Signature:		Title:		Date of Review: