



CITY OF SAN MARCOS/TEXAS STATE
UNIVERSITY

2016 WORK PLAN
BUDGETED CONSERVATION MEASURES



- ❖ 2016 Goal – Addition of 1100 m² of TWR
 - ❖ Garden 2014 & 2015 plantings (planting new as needed)
 - ❖ New plantings in Segment 3
 - ❖ Continue research in Segment 4 & Segment 1

- ❖ Rationale for budget increase:
 - ❖ Establish 8000 m² of additional TWR (in addition to baseline of 4000 m²) to meet EAHCP requirements
 - ❖ More areas planted - more effort required
 - ❖ Targeting the maximum threshold to ensure continuance of TWR
 - ❖ Higher planting per unit area required/trial and error on specific locations where establishment success can be achieved

- ❖ Allocated funds for 2016 from Table 7.1: \$ 125,000

- ❖ Additional amount requested: \$41,737.41

- ❖ Estimated 2016 Budget: \$166,737.41 (last year \$178,000)

5.3.6/5.4.4

Sediment Removal

- ❖ 2016 Goal – Removal of 1000 m² (500 m³) of sediment in coordination with TWR plantings
 - ❖ Continue expansion in Sites 1 & 3
 - ❖ Start work on Site 4, 5 & 6
 - ❖ Total of 8 sites above IH-35 as described in EAHCP

- ❖ Rationale for budget increase:
 - ❖ Labor hours to meet (surpass) the 2016 goal

- ❖ Allocated funds for 2016 from Table 7.1: \$25,000

- ❖ Additional amount requested: \$168,041.62

- ❖ Estimated Budget: \$193,041.62 (last year - \$223,200)

- ❖ 2016 Goal – Removal of 1500 m² of invasive aquatic plant & continued riparian and terrestrial removal (Sink Creek to IH-35) to meet biological goals required by EAHCP
 - ❖ Address regrowth for aquatic, riparian and terrestrial invasives & plant to remove “dead” space
 - ❖ Address new areas that provide a seed bank for the buffer zone

- ❖ Rationale for budget increase:
 - ❖ More area planted - more effort required
 - ❖ Targeting the maximum threshold to ensure continuance of TWR
 - ❖ Higher planting per unit area required/trial and error in specific locations

- ❖ Allocated funds for 2016 from Table 7.1: \$ 125,000

- ❖ Additional amount requested: \$119,402.67

- ❖ Estimated 2016 Budget: \$244,280.66 (last year \$344,000)

5.7.1 Native Riparian Habitat Restoration

- ❖ 2016 Objective – Complete invasive removal in R.L. Park
 - ❖ Mop up in all other treated areas
 - ❖ Volunteers will plant the invasive removal areas
- ❖ Allocated funds for 2016 from Table 7.1: \$20,000
- ❖ Transfer funds from Litter Removal (Measure 5.3.3) and Non-native Species Control (Measure 5.3.5): \$35,742.70
- ❖ Estimated Total Budget: \$220,000 or \$55,000/year
- ❖ Budget plan: Fund the project over four years (2015 -2018) to cover expenses through the transfer of funds from other measures and the yearly allocation.

5.3.3/5.4.3 Management of Floating Vegetation Mats and Litter

- ❖ 2016 Goal – Minimize impacts of floating vegetation and litter on TWR stands and overall aquatic community within the San Marcos River
- Table 7.1 allocation for 2014: \$80,000
- Contract Amount: \$48,798.10
- Unused funds to be transferred to riparian effort: \$28,701.90
- Public Outreach Funds: \$2,500.00
- Proposed Budget: \$80,000

5.3.5/5.3.9/5.4.11/5.4.13 Non-Native Species Control

- 2016 Objective: Reduction of non-native, invasive species in the San Marcos River to levels that minimize their direct and indirect impacts on Covered Species and the aquatic ecosystem.
- Table 7.1 allocated funds: \$35,000
- Contract Amount: \$24,960.00
- Unused funds to be transferred to the riparian effort: \$7,040.80
- Public Outreach: \$2,500
- Proposed budget: \$34,500.80

5.3.2/5.4.2 Management of Recreation in Key Areas

- Target 2016/Performance Measure: Educate the public engaged in water-based recreation on sustainable river use that protects listed species and their habitats.
- Pick up litter in and along river
- Remove vegetation mats
- Monitor recreation behaviors and impacts on habitat
- Construct and clean TWR enclosures
- Monitor ongoing HCP projects
- Empty trash boats
- Survey TWR stands within enclosures
- Place signs and repair fence
- Educate river users

- Allocated funds for 2015: \$ 56,000

- Proposed Budget: \$56,000

5.7.6 Impervious Cover/Water Quality Protection

- **2016 Objective:** Implement a program that minimizes the impacts associated with urbanization and changes in land use/cover in the Upper San Marcos watershed; manage stormwater as close to its source as possible, treat stormwater as a resource rather than a waste product; emphasize conservation and the use of on-site features to protect water quality; and increase infiltration to groundwater and aquifer recharge for the protection of riverine integrity.
- Table 7.1 allocation for 2016: \$200,000
- Proposed Budget: \$200,000
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5.7.5 Management of Household Hazardous Waste

2016 Objective: Continue to provide a place for citizens of San Marcos and Hays County to safely dispose of HHW.

- Table 7.1 allocation for 2016: \$30,000
- Proposed Budget: \$30,000