Plum Creek Watershed Partnership Meeting

Lockhart, Texas
May 3, 2012

Meeting Overview and Introductions

Nikki Dictson
Texas AgriLife Extension Service

Update on New Watershed Coordinator Project

Debbie Magin
Guadalupe-Blanco River Authority
And
Nick Dornak
PCWP Steering Committee

Education

• Agriculture
  • Farming and ranching in Goliad County
  • Livestock breeding and production
• Texas A&M University
  • B.S. Ag Development / Animal Science
  • Leon River Restoration Project
• University of Wyoming
  • M.S. Rangeland Ecology and Watershed Mgmt
  • North Platte River Valley Groundwater Nitrate Study

Professional Experience

• State of Wyoming
  • WYPDES water quality permitting
  • Watershed permitting
  • Powder River Assimilative Capacity program
  • Water rights regulation
• Pearl Development Company
  • GIS DataVision
  • Oil and gas development activities
  • State and federal permitting
• Volunteer Efforts
A Cooperative Approach

- Shared Vision
- Measurable and Attainable Goals
- Effective Communication
- Successful Engagement of Stakeholders
- Participation and Implementation
- Realization

Coordination of Critical Elements

- Agriculture
- Feral Hogs
- Urban Stormwater
- Wastewater
- General Partnership Duties

March, April & May recap

- Water quality and flow measurements in Plum Creek with GBRA staff
- Bastrop-Caldwell County Wildlife Management Association Extravaganza
- FY2012/2013 CAPCOG Solid Waste Workshop and grant application submittal – (Kasi Miles, Mike Bittner and other contributors)
- FY2013 TCEQ NPS program conference call on request for grant applications
- AgriLife Extension Service of Caldwell County – Leadership Advisory Board (LAB) Meeting

Don’t just inform, inspire!

- Shared Vision
- Education and Outreach
- Taking Ownership
- Spirit of Cooperation
- Synergy and Achievement!

“...That land is a community is the basic concept of ecology, but that land is to be loved and respected is an extension of ethics.”
— Aldo Leopold

Discussion of Public Comment and Approval of the Watershed Protection Plan Update Report

Nikki Dictson
Texas AgriLife Extension Service
New Information in Update

- General formatting and minor editing
- Implementation Timeline graph of grant projects
- Updated population tables with 2010 census data
- Buda’s WWTP expansion and Water Reuse Projects
- Design drawings for Kyle’s Stormwater Retrofit projects
- New Windy Hill Discharge Permit in the Watershed
- Plum Creek Community Wet Well/Screens for Reuse

New Information in Update

- Study on bacteria influences at Bridges by Birds/Bats
- Watershed Kiosks located in Luling, Lockhart, and Kyle.
- New Texas Stream Team Map of voluntary sampling locations
- Updated Water Quality Monitoring Map with new site labels
- Bacteria Source Tracking
- Table 23 - Revised Table 9.1 from WPP
- New Table 24 – Computed Actual 3-year Geomeans for E. Coli at Uhland, Lockhart, and Luling.

Any Discussion or Questions?

Update on Kyle CWA §319 Implementation Grant and Water Reuse Feasibility Study

Raquel Garcia
City of Kyle

City of Kyle

CWA Section 319 Implementation Grant
& Water Reuse Feasibility Study

- Activities from Q2 2012
- Final Report
Activities Q2 2012

- Completion of Spring Branch Channel Retrofit
- Continuation of Pet Waste Station, Street Sweeping, other Housekeeping Activities

Activities Q2 2012

- Installation of Mulch Tubes along Plum Creek at Steeplechase Park

Activities Q2 2012

- Trash Clean Up Day on 2/23/12 along Plum Creek, Lake Kyle and nearby trails

Final Report

- Awaiting final comments/approval
- Reporting:
  - Total of 1,843 storm inlet markings
  - Installation of ten pet waste stations
  - Street sweeping activities (8 subdivisions per month)
  - Public Education and Outreach via events and leaflets
  - Change in City Ordinance
  - Installation of Mulch Tubes
  - Remodeling of two detention facilities
  - Pre and Post Implementation Surveys
  - Creation of storm water system map
  - Creation of Storm Water Drainage Management Plan
  - Creation of a Quality Assurance Project Plan

Water Reuse Feasibility Study

- City of Kyle Project Overview
- Public Meeting
- Population Demands
- Projected Water Costs
- Reclaimed Water Demand
- Project Construction Phases
- Projected Project (Construction) Costs
- Future Water Supply Costs
Project Overview

- City of Kyle Water Reuse Feasibility Study
  - Parkland
  - ROW
  - Golf Course
  - Commercial and Single Family Property
  - Schools
- Matching grants from BoR and TWDB
- Contracting with RPS Espey to develop the Study
- BSEACD

Public Meeting

- 3/21/12
- 2nd of 3 Public Meetings as required
- Discussion of:
  - Projected population increases
  - Projected wastewater volume
  - Municipal water supply
  - Reclaimed water demands

Population Adjusted Water Demand Projection

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>2010</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
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<tr>
<td>Population</td>
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<td>28016</td>
<td>40641</td>
<td>48769</td>
<td>53646</td>
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Water Demand (AF)

- Edwards Aquifer (AF)
  - 2000: 243
  - 2010: 243
  - 2020: 243
  - 2030: 243
  - 2040: 243
  - 2050: 243
  - 2060: 243
- Edwards (Barton Springs) (AF)
  - 2000: 304
  - 2010: 304
  - 2020: 304
  - 2030: 304
  - 2040: 304
  - 2050: 304
  - 2060: 304
- Canyon Lake (AFRAC)
  - 2000: 589
  - 2010: 2957
  - 2020: 2957
  - 2030: 2957
  - 2040: 2957
  - 2050: 2957
  - 2060: 2957
- HCPUA (AF)
  - 2000: 0
  - 2010: 0
  - 2020: 4481
  - 2030: 10082
  - 2040: 10082
  - 2050: 10082
  - 2060: 10082

Total: 1136 3504 7985 7985 13586 13586 13586

Water Demand (AF)

- 2000: 702
- 2010: 3578
- 2020: 6937
- 2030: 8257
- 2040: 8713
- 2050: 9702
- 2060: 10359

Surplus/(Shortage)

- 2000: 434
- 2010: -74
- 2020: 1048
- 2030: -272
- 2040: 4873
- 2050: 3884
- 2060: 3227

Projected Water Costs

<table>
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<tr>
<th>Year</th>
<th>Water Demand</th>
<th>Edwards Aquifer</th>
<th>BSEACD (Historical Limit)</th>
<th>BSEACD (Conditional Use)</th>
<th>GBRA</th>
<th>HCPUA</th>
<th>Total Cost</th>
<th>Average Cost ($/AF)</th>
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Average Water Supply Cost During Drought Conditions

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<td>5533 2181.81</td>
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Reclaimed Water Demand

- Irrigation
  - Plum Creek Golf Course
  - HOA Parks
  - Seton Medical Center
  - Schools
  - City of Kyle Parks and Public ROW
  - Future Commercial Development
- Cooling
  - Seton Medical Center

Reclaimed Water Demand
Reclaimed Water Use in Kyle

<table>
<thead>
<tr>
<th>Reclaimed Water Use Locations</th>
<th>Total Area (ac.)</th>
<th>Irrigated Area (ac.)</th>
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<tbody>
<tr>
<td>Public Park Acreage</td>
<td>302.58</td>
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<td>ROW Acreage</td>
<td>47.87</td>
<td>47.57</td>
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<tr>
<td>Private/HOA Park Acreage</td>
<td>128.27</td>
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<tr>
<td>Golf Course</td>
<td>308.84</td>
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<td>Commercial Property</td>
<td>2691.3</td>
<td>462.55</td>
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<td>Single-Family Property</td>
<td>252.5</td>
<td>76.08</td>
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<td>Schools</td>
<td>154.47</td>
<td>23.69</td>
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<tr>
<td>Future Parkland</td>
<td>140.56</td>
<td>70.28</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>4032.30</td>
<td>1030.29</td>
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Reclaimed Water Use in Kyle

<table>
<thead>
<tr>
<th>Location</th>
<th>Peak Demand (gpd)</th>
<th>Annual Demand (MG)</th>
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<td>Cooling Makeup Water</td>
<td>51061</td>
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<td>Public Park Acreage</td>
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<td>Private/HOA Park Acreage</td>
<td>467029</td>
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<td>Golf Course</td>
<td>752136</td>
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<td>Commercial Property</td>
<td>1605947</td>
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<td>Single-Family Property</td>
<td>200556</td>
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<tr>
<td>Schools</td>
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<td><strong>TOTAL</strong></td>
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Reclaimed Water Use in Kyle

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<thead>
<tr>
<th>Location</th>
<th>2011 Consumption (MG)</th>
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<tr>
<td>Kyle Parkway ROW</td>
<td>6.2</td>
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<td>Seton Medical Center Irrigation</td>
<td>3.7</td>
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<tr>
<td>Seton Medical Center Cooling</td>
<td>11.3</td>
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Reclaimed Water Use in Kyle

<table>
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<th>Project Construction Phases</th>
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<tbody>
<tr>
<td><strong>Phase 1</strong></td>
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<tr>
<td><strong>Initial Demand (2015-2020)</strong></td>
</tr>
<tr>
<td>Phase 1</td>
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<tr>
<td>115.63 $270,500 $27,180 $45,063 $11,837 $750.22 $2.30</td>
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<tr>
<td>205.05 $4,506,250 $291.6 $84,063 $13,830 $750.22 $2.30</td>
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<tr>
<td><strong>Phase 2</strong></td>
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<td>2015 Demand</td>
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<td>2015 Demand</td>
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<td>2015 Demand</td>
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<th>Water Supply Costs</th>
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<td>Year</td>
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</tr>
<tr>
<td>2035</td>
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<tr>
<td>2040</td>
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Feasibility Study: Next Steps

- Public Meeting #3
- Draft Report (Implementation)
- Cost/Benefit Analysis

City of Kyle

Raquel Garcia
Grants Administrator
City of Kyle
P.O. Box 40
Kyle, TX 78640
p: (512) 262-3947
rgarcia@cityofkyle.com

Update on Hillside Terrace and Caldwell County Solid Waste Grant Applications

Nikki Dictson
Texas AgriLife Extension Service
And
Nick Dornak
PCWP Steering Committee

Potential Hillside Terrace Wastewater Project

Considerations

- Buda will receive a letter in Sept. with the project’s ranking, loan forgiveness and invitation to the program
- The survey was already paid and is still good for 2013
- Pre-design costs are still available on a limited basis but will be phased out in the future
- If 70% loan forgiveness is received remaining 30% project costs would be in the form of a loan payable over 30 yrs.
- Includes over $633,000 in wastewater impact fees to city.
- 265 homes would be brought online and would be paying the out of service area wastewater fees at $65.03/month to pay off loan – increased billing to new homes.
Pre-Applications for TWDB Intended Use Plan for 2013

- Applied to both the POTW and NPS programs to increase chance to receive loan forgiveness
- Held Meetings in February with Buda and Hays County about applying again and assisted with applications due March 1st
- Presented project to Buda City Council on March 6
- Presented update on Hillside Terrace Applications to Hays County Commissioners Court on April 17th

Community Development Block Grant Funding

- Texas Department of Agriculture has funding available to connect the low income residents to the new infrastructure
- Grant Funding of up to $275,000 can be applied for to properly abandon the existing septic systems and connect the homes that qualify.
- Each home would have to complete a CDBG socioeconomic survey
- This funding if received could also reduce amount of remaining loan.
- Unfortunately funding has been cut by 60% last year and 11% this year.

Caldwell County Solid Waste Grant Application FY2012-13, CAPCOG

- Email from Nikki Dictson to stakeholders with a deadline reminder and an offer to help interested parties in developing an application
- Caldwell County Judge, Tom Bonn, expressed interest in applying for funds to host 4, precinct-based, Community Collection Events
- Attended CAPCOG workshop, March 30
- CAPCOG funding cut by 53% for the current cycle

Solid Waste Grant cont.

- Worked with Caldwell County employees and Environmental Investigator to develop ideas, get feedback, plan events, and gather historic materials
- Critical to establish need, incorporate public and private partnerships, and minimize duplication
  - Include tires
  - Volunteer labor to assist elderly and physically challenged
  - Private industry support – disposal, printing, supplies
- Received 8 endorsements from key elected officials, organizations and the PCWP
- Utilizing past volunteers and added a commitment from the Caldwell County 4H clubs for 2012/13

Solid Waste Grant cont.

- Caldwell County Commissioner’s Court approved a resolution supporting the grant, April 23
- 2012 Total Cost for four events = $60,918
  - CAPCOG grant funds = $19,974 (32.8%)
  - Caldwell County, volunteer and other private and non-governmental In-Kind = $40,944 (67.2%)
*NOTE - 2010 CAPCOG grant awarded $23,056
- Grant presentations to take place May 17
- Community Collection Events would be held in each of Caldwell County’s four precincts beginning in June 2012!
Implementation of Agricultural Best Management Practices

BJ Westmoreland
Caldwell-Travis Soil and Water Conservation District

Technical and Financial Assistance for Ranchers and Farmers in the Plum Creek Watershed

Plum Creek Watershed Partnership Meeting 5/3/2012

Update

To Date:
- 10 WQMPs certified
- 1 WQMP in the process of being certified
- All at different stages of implementation
  - One producer has re-planted a failed stand of grass from 2010
  - Currently enrolled producers have all planted grass as scheduled in their plans
  - Practices will be certified and producers will be reimbursed accordingly

Update

- Producers will be implementing:
  - Water well drilling
  - Livestock watering facilities
  - Cross fencing

Moving Forward

- Continue WQMP development for enrolled producers
- Assist producers with conservation requests and concerns
- Assist producers with the implementation of conservation practices
Moving Forward (continued)

- Attend Luling Foundation Farm Field Day on May 17, 2012
- Continue planning field day at a WQMP/EQIP participants property
- Develop press release educating public about program
- Publicize Caldwell-Travis SWCD Agriculture and Natural Resources Field Day at Chisholm Trail Roundup

Thanks

Questions?

Contact Information:
B.J. Westmoreland
District Technician
Caldwell-Travis SWCD
1403-D Blackjack St.
Lockhart, TX 78644
512-398-2121 Ext. 3
bradford.westmoreland@tx.nacdnet.net

Update on Plum Creek Feral Hog Education Program

Jared Timmons
Texas AgriLife Extension Service – Wildlife & Fisheries Science

Education Program for Feral Hog Management in the Plum Creek Watershed

Jared Timmons
Extension Assistant
Texas AgriLife Extension Service
Department of Wildlife and Fisheries Sciences
May 3, 2012

Presentations/Meetings
- 2/23 – Feral Swine Roundtable meeting
- 2/29 – Capital Area Master Naturalists meeting
- 3/7 – Cedar Bayou Watershed
- 3/31 – Bastrop-Caldwell County Wildlife Management Association Extravaganza
- 4/12 – Clear Fork Wildlife Management Association
- 4/15 – 4/17 – International Wild Pig Conference

Feral Hog Management Workshop
- Feb. 14 at Luling Civic Center
  - 310 registered
Media
- News Releases:
  - 2/13 – AgriLife Today: New publication explains how feral hogs negatively affect native plants
- Blog Articles:
  - 2/2 – Feral Hogs Negatively Affect Native Plant Communities

Landowners
- Two site visits
- One new landowner account
- One public report
- 9 landowner reports – 5 in Plum Creek Watershed

Available resources
- http://pcwp.tamu.edu/FeralHogs/
- Publication links
- Site visits for landowners
- Presentations for groups

Project Funding
- Provided through a Clean Water Act §319(h) nonpoint source grant from the Texas State Soil and Water Conservation Board and the U.S. Environmental Protection Agency

Questions?
Jared Timmons
Extension Assistant
(254) 485-4886
jbtimmons@ag.tamu.edu

Next Steps
Nikki Dickson
Texas AgriLife Extension Service
PCWP Steering Committee Meeting
Thursday, August 9, 2012
6:30 to 9:00 pm
Lockhart State Park, Lockhart

Plum Creek Watershed Partnership Update Presentations
- May 7th – Caldwell County Commissioners Court at 9 am
- May 10th – Luling City Council at 6 pm
- May 15th – Lockhart City Council
- May 15th – Polonia Water Supply Corporation Board Meetings
- May 16th – City of Uhland Meeting at 6 pm

USDA-NRCS Conservation Innovation Grant
- Proposal to provide technical assistance and financial incentives to landowners to remove feral hogs from the watershed
- Proposal will build on the established, and continuing, education campaign
- Proposed duration is September 2012 through August 2015

USDA-NRCS Conservation Innovation Grant
- Asking for $706,247 in NRCS CIG federal funds.
  TSSWCB will provide $568,436 in state general revenue matching funds. Project Cooperators will provide $141,331 in kind funds.
- Collaborators: Caldwell-Travis SWCD, Texas Wildlife Services, Texas AgriLife Research, GBRA, TWRI, TSSWCB
- Submitted April 2012; Selections anticipated to be announced by July 20, 2012

“H2O for You!”
Wednesday, May 9, 2012
Navarro Elementary School
Presentations throughout the day to classes

85th Annual Luling Foundation Field Day
We will have a Booth at the Field Day, Please stop by and see us!
Thursday, May 17
7:30 am - 3 pm
523 S Mulberry St
Luling, TX 78648, US
Natural Resource Fair
40th Annual Chisholm Trail Round Up

Lockhart City Park Pavilion
Educational Booth for Families
June 9, 2012
2 – 4 PM

Thanks!

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512-213-7389

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