

Texas Groundwater Protection Committee Public Outreach and Education Subcommittee

Groundwater Educational Outreach Plan Implementation Strategy



October 3, 2007

**TGPC POE Subcommittee
Groundwater Educational Outreach Plan
Final Draft Implementation Strategy**

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Issue A – Urban Landowner Pesticide Application and Groundwater

Lynne Fahlquist (United States Geological Survey, USGS), Michael Hare (Texas Department of Agriculture, TDA), Al Cherepon (Texas Commission on Environmental Quality, TCEQ)

Current Status – Contacted Laurie Curra, manager of the Nonpoint Source (NPS) program for the TCEQ, to see if the City of Austin has received the 319 (NPS) grant they applied for. She indicated that the Environmental Protection Agency (EPA) is presently reviewing this, but she doesn't see any reason why they would be turned down for this. If approved, it would likely be for September, for the 2008 fiscal year.

Identification via survey of monitoring results of problem areas in the state (i.e., is the weed and feed issue prevalent in most major Texas cities, etc.) Are problems place-specific. Obviously, some information gathering is going to be necessary.

How are the different locations (municipalities) approaching their issues and are there any measures of success that can be tapped into.

Can the Texas Groundwater Protection Committee (TGPC) Public Outreach and Education (POE) Subcommittee website serve as a clearing house of information on this topic.

Specific Activity 1 – Literature search to determine what products are available. The City of Austin has several programs, with the latest being the “Grow Green” program, the objective of which is to reduce pesticide/weed & feed use in the city. Ft. Worth also has a program for Diazinon, which includes monitoring. Other programs out there include the Integrated Management Plans, the Master Gardener, the UP3 program in San Francisco, and numerous other states programs, such as the Yardscape program in Maine.

- Funding Required – Yes, perhaps minimal.
- Funding Source(s) – TCEQ, EPA, United States Department of Agriculture (USDA), non-profits or special interest groups
- Personnel Required – Texas Cooperative Extension (TCE), TCEQ, Texas Water Development Board (TWDB), Groundwater Conservation District (GCD) staff
- Time frame – 6 months

Specific Activity 2 – Refine or develop educational materials for Texas; produce educational products, disseminate products. Have someone do a tri-fold similar to the one done by Dana Porter/TCE, but tailored to urban pesticides.

- Funding Required – Yes.
- Funding Source(s) – TCEQ, EPA Pesticide Environmental Stewardship Program (PESP) Regional Initiative Grants, USDA, other
- Personnel Required – TCE, TCEQ, TWDB, GCD Staff
- Time frame – 2 years

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Issue B – New Rural Landowners and Groundwater Wells

Lynne Fahlquist (USGS), David Gunn (Texas Department of Licensing and Registration, TDLR), Kathy McCormack (TCEQ)

Current Status – This is a new task for members of the TGPC POE Subcommittee. Some state agencies and organizations have developed resources to address this topic.

Specific Activity 1 – Literature search to determine what products are available.

- Funding Required – Yes, perhaps minimal.
- Funding Source(s) – TCEQ, EPA, TWDB, TDLR, non-profits or special interest groups (e.g. Ground Water Protection Council (GWPC), National Ground Water Association (NGWA))
- Personnel Required – TCE, TCEQ, TDLR, TWDB, GCD staff
- Time frame – 6 months

Specific Activity 2 – Refine or develop educational materials for Texas; produce educational products, disseminate products.

- Funding Required – Yes.
- Funding Source(s) – TCEQ, EPA, TWDB, TDLR, non-profits or special interest groups (e.g., GWPC, NGWA)
- Personnel Required – TCE, TCEQ, TDLR, TWDB, GCD staff
- Time frame – 2 years

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Issue C – Abandoned Water Well Closure

David Gunn (TDLR), David Van Dresar (Texas Alliance of Groundwater Districts, TAGD), Bruce Lesikar (TCE)

Current Status – A guidance document for landowner plugging of abandoned water wells has been developed and disseminated by the TGPC, TDLR, and TCE. A number of well plugging demonstrations have been conducted by TCE in different areas of the state.

Specific Activity 1 – Develop, publish, and disseminate Water Well Capping educational brochure/guidance.

- Funding Required – Yes.
- Funding Source(s) – TCEQ/EPA funding available, FY 2007 TCEQ/TCE Contract.
- Personnel Required – Technical input and review assistance to include TCEQ, TAGD, TWDB, others; layout and publishing by TCE.
- Time frame – Short term, calendar year 2007 for development, publication, and dissemination.

Specific Activity 2 – Develop and publish a popular press article on abandoned water wells and the TDLR Abandoned Well Determination Criteria checklist and Plugging Report form (1, 2); this could then be converted into a Frequently Asked Questions (FAQs) format and posted on the TGPC website.

- Funding Required – Yes.
- Funding Source(s) – TCEQ/EPA funding available, FY 2008 TCEQ/TCE Contract.
- Personnel Required – Technical input and review assistance to include TCEQ, TAGD, TWDB, others; drafting and publishing by TCE.
- Time frame – Short term, calendar year 2008 for development, publication, and dissemination.

Specific Activity 3 – Give slide presentations on how to identify abandoned water wells and what to do about them. Post the slide presentation on the TGPC website, and possibly convert it into a video.

- Funding Required – Yes.
- Funding Source(s) – ?
- Personnel Required – Technical input and review assistance to include TCEQ, TAGD, TWDB, others; drafting by TCE.
- Time frame – Short term, calendar year 2008 for development, publication, and dissemination.

Specific Activity 4 – Provide a link from the TGPC website to TDLR’s on-line abandoned water well FAQs (3).

- Funding Required – No.
- Funding Source(s) – None.
- Personnel Required – TGPC members.
- Time frame – Short term, calendar year 2007.

Specific Activity 5 – Re-issue the Memorandum of Understanding (MOU) between TCEQ, TDLR, and Groundwater Conservations Districts (GCDs) (5) with reference to TDLR’s new webpage where abandoned water wells can be reported on-line (6).

- Funding Required – No
- Funding Source(s) – ?
- Personnel Required – Technical staff of TCEQ, TDLR, and GCDs.
- Time frame – Short term, calendar year 2008 for development, publication, and dissemination.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

(1)

<http://www.license.state.tx.us/wwd/Abandoned%20Well%20Determination%20Checklist.pdf>

(2) <http://www.license.state.tx.us/wwd/wwd004.pdf>

(3) <http://www.license.state.tx.us/wwd/wwdfaq.htm#adw>

(5)

http://www.tceq.state.tx.us/assets/public/legal/rules/hist_rules/Complete.04s/04059007/04059007_ado_clean.pdf

(6) <http://www.license.state.tx.us/abwells/default.aspx>

Issue D – Groundwater Conservation Districts

GCD Newsletters

David Van Dresar (TAGD)

Current Status – The need for public education and information dissemination is paramount for any GCD to carry out its mission. Many, if not most, of the GCDs currently produce a newsletter and distribute.

Specific Activity 1 – Produce and distribute, at a minimum, quarterly newsletter.

- Funding Required – Funding will vary dependent upon the quality of the newsletter being produced.
- Funding Source(s) – Local groundwater conservation district budget
- Personnel Required – GCD staff
- Time Frame – Quarterly. Production of each issue will vary depending upon personnel availability and content.

Specific Activity 2 – Maintain links to GCD websites on TGPC’s website.

- Funding Required – Minimal, if any at all.
- Funding Source – State agency maintaining website.
- Personnel Required – TGPC webmaster.
- Time Frame – Minimal.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Training for GCD Personnel

David Van Dresar (TAGD)

Current Status – On-going training for GCD personnel is required. TAGD currently has a Memorandum of Understanding (MOU) with the River Systems Institute (RSI) to provide training for GCDs. TWDB offers periodic workshops on groundwater.

Specific Activity 1 – RSI to provide specific training for GCDs.

- Funding Required – Yes.
- Funding Source – GCD attendees.
- Personnel Required – RSI.
- Time Frame – As requested.

Specific Activity 2 – GCD personnel to attend a TWDB-sponsored Groundwater 101 workshop.

- Funding Required – ?
- Funding Source – ?
- Personnel Required – TWDB.
- Time Frame – Annually.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

School-based Educational Programs

David Van Dresar (TAGD), Linda Ruiz McCall (TWDB), Al Cherepon (TCEQ)

Current Status – The TWDB offers water resource curricula for elementary and middle school students that teach both surface and groundwater concepts. Both programs are correlated with the Texas Assessment of Knowledge and Skills (TAKS) standards. The *Major Rivers* program

(<http://www.twdb.state.tx.us/assistance/conservation/ConservationPublications/majorrivers.asp>), copyrighted by the Lower Colorado River Authority (LCRA) and distributed by the TWDB, targets 4th and 5th grade students. *Raising Your Water IQ*, a water conservation curriculum

(<http://www.twdb.state.tx.us/assistance/conservation/ConservationPublications/RaisingYourWaterIQIntro.pdf>), targets 6th through 8th grade students. Program participation and sponsorship is generally the responsibility of local entities. Sponsors identify schools for program participation on an annual basis, purchase, and then distribute program material.

Specific Activity 1 – Send a letter of support for GCD educational outreach via the *Major Rivers* and *Raising Your Water IQ* programs to Texas river authorities, geological societies, school district science coordinators, and science teacher conference coordinators.

- Funding Required – No.
- Funding Source(s) – N/A.
- Personnel Required – TGPC POE Subcommittee Chair to draft the letter, TGPC Chair to approve the letter.
- Time frame – Annually, as part of activities supporting the *Major Rivers* and *Raising Your Water IQ* programs.

Specific Activity 2 – Provide classroom support of the *Major Rivers* and *Raising Your Water IQ* programs through on-site visitations, outdoor experiences, and/or field trips to enhance student understanding of local water resource conditions and challenges.

- Funding Required – Yes, will vary depending on the activities chosen.
- Funding Source(s) – *Major Rivers* and *Raising Your Water IQ* sponsors.
- Personnel Required – TGPC member agency personnel.
- Time frame – During the school year, as part of activities supporting the *Major Rivers* and *Raising Your Water IQ* programs.

Specific Activity 3 – Investigate the possibility of obtaining TCEQ Supplemental Environmental Project (SEP) funding for the *Major Rivers* program.

- Funding Required – No.
- Funding Source(s) – TCEQ SEP program.
- Personnel Required – TGPC POE Subcommittee.
- Time frame – Short-term, calendar year 2007.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Issue E – Access to TGPC Agencies’/Organizations’ Groundwater Program Information and General Groundwater Information

Kathy McCormack (TCEQ)

Current Status – TGPC website exists and is being maintained to some degree. Nine specific topics of interest have been identified on the TGPC website (i.e., the daughter pages listed down the left side of the home page – Groundwater Information, Pesticides, Water Wells, Septic Systems, Groundwater Contamination, Pollution Prevention, Water Conservation, Classroom, Oil, Gas and Mining); however, they should be reviewed to confirm that they’re up-to-date.

Specific Activity 1 – Review and update the nine specific topics of interest listed down the left side of the TGPC home page.

- Funding Required – N/A.
- Funding Source(s) – N/A.
- Personnel Required – TGPC and/or TGPC POE Subcommittee members.
- Time frame – Short-term, calendar year 2007.

Specific Activity 2 – Identify any topic of interest which requires a heading on the left side of the TGPC home page.

- Funding Required – N/A.
- Funding Source(s) – N/A.
- Personnel Required – TGPC and/or TGPC POE Subcommittee members.
- Time frame – Short-term, calendar year 2007.

Specific Activity 3 – Review and update each TGPC Subcommittee’s web page.

- Funding Required – N/A.
- Funding Source(s) – N/A.
- Personnel Required – TGPC Subcommittee Chairs and TCEQ (Joe Peters, Al Cherepon, Cary Betz, and Kathy McCormack).
- Time frame – Short-term, calendar year 2007.

Specific Activity 4 – Review and update each agency/organization’s information on the TGPC website. Identify key words, and links to groundwater information, on each agency/organization’s website so that this information can be added to the appropriate TGPC web page.

- Funding Required – N/A.
- Funding Source(s) – N/A.
- Personnel Required – TGPC members and TCEQ (Kathy McCormack).
- Time frame – Short-term, calendar year 2007.

Specific Activity 5 – Identify Frequently Asked Question (FAQ) and popular press topics, then write the paragraphs/articles, obtain approval, and post them on the TGPC website.

- Funding Required – No, not if TGPC and/or TGPC POE Subcommittee members write them.
- Funding Source(s) – N/A.
- Personnel Required – Technical input and review assistance to include TCE (Bruce Lesikar, Monty Dozier), USGS (Dee Lurry), TCEQ (Kathy McCormack), and TWDB (Robert Mace).
- Time frame – Short-term, calendar year 2007 for initial topics. Additional topics may be identified after Specific Activity 5 is completed.

Specific Activity 6 – Post three-minute digital video clips from the down-hole camera VHS tapes on the TGPC website. Already have a VHS tape with down-hole camera video from an active water well in the Edwards Aquifer; TDLR has four tapes from abandoned water wells showing good and bad casings.

- Funding Required – No, not if TCEQ resources can be used.
- Funding Source(s) – N/A.
- Personnel Required – TCEQ (Rob Burneson, Keith Townsend, Kathy McCormack).
- Time frame – Short-term, calendar year 2007.

Specific Activity 7 – Identify and repair all broken hyperlinks on the TGPC website. Provide an email link at the bottom of the TGPC home page for reporting broken links.

- Funding Required – No, not if free software/websites can be used or if this service is included in the TGPC website contract.
- Funding Source(s) – N/A, or the existing EPA grant if not included in the TGPC website contract.
- Personnel Required – TCEQ (Kathy McCormack) and The Wilkins Group, Inc. (TGPC website host supplier)
- Time frame – Short-term, calendar year 2007.

Specific Activity 8 – Identify TGPC member websites that don't have a hyperlink to the TGPC website, then work with these webmasters to establish the hyperlink.

- Funding Required – No.
- Funding Source(s) – N/A.
- Personnel Required – TCEQ (Kathy McCormack) and unknown TGPC members.
- Time frame – Short-term, calendar year 2007.

Specific Activity 9 – Through a blanket email followed by individual phone calls, request that all 12 non-member Partners identified in the *Plan* (and any other appropriate parties; e.g., teaching associations scouting organizations, etc.) review the TGPC website and provide feedback for improvement – that is, is the TGPC website missing some areas of information that are important to their audiences ?

- Funding Required – No.
- Funding Source(s) – N/A.
- Personnel Required – TCEQ (Kathy McCormack).
- Time frame – Short-term, calendar year 2007.

Specific Activity 10 – Identify those TAGD GCDs that do not have a website. Confirm that the TWDB is willing to work with these GCDs in establishing their websites. Fund, design, and publish websites.

- Funding Required – ???
- Funding Source(s) – ???
- Personnel Required – TAGD (Barry Miller) and TWDB (???)
- Time frame – Short-term, calendar year 2007, for identifying the GCDs. Long-term, one to two years, for establishing the websites.

Specific Activity 11 – For one year, purchase quarterly TGPC website statistics (including visitors, unique Internet Protocol (IP) addresses, and PageViews and downloads) from the site host, then compare TGPC website activity to similar websites.

- Funding Required – Yes.
- Funding Source(s) – TCEQ via EPA grant.
- Personnel Required – The Wilkins Group, Inc. (TGPC website host supplier) and TCEQ.
- Time frame – Long-term, fiscal year 2008.

Specific Activity 12 – Identify an experienced environmental communicator who could create strategies for reaching specific audiences, develop suitable groundwater-related messages, select the appropriate media to reach these audiences, perform the outreach, and gauge the effectiveness of the outreach.

- Funding Required – Yes.
- Funding Source(s) – ???
- Personnel Required – Technical input and review to include TCE (Bruce Lesikar), USGS (Dee Lurry), and TCEQ [Small Business and Local Government Assistance (Brian Christian) and Pollution Prevention and Education (Ted Hanzen)].
- Time frame – Short-term, calendar year 2007, for identifying funding for a consultant. Long-term, two to three years, for developing the materials/methods, performing the outreach, and gauging the effectiveness of the outreach.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Issue F – Tex*A*SYST

Monty Dozier (TCE), Joe Peters (TCEQ), Dennis Hoffman (Texas Agricultural Experiment Station, TAES)

Current Status – Texas-specific fact sheets, information, and inventories have been developed and published a number of years ago. Pilot projects in educational delivery have been done. The program is not currently active in outreach.

Specific Activity 1 – Update and streamline the Tex*A*SYST educational materials.

- Funding Required – Yes.
- Funding Source(s) – Currently Unknown.
- Personnel Required – Technical input and review assistance to include Dennis Hoffman (TAES), Joe Peters (TCEQ).
- Time frame – Short term, calendar year 2007 for draft materials, if funded ?

Specific Activity 2 – Develop and implement a web-based Tex*A*SYST decision maker

- Funding Required – Yes.
- Funding Source(s) – USDA, EPA.
- Personnel Required – TCE to manage project. Technical input and review assistance to include Dennis Hoffman (TAES), Joe Peters (TCEQ). Contractor may be needed for web development portion.
- Time frame – Long term, two to three years.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Issue G – On-Site Wastewater Treatment/Disposal Systems Education

Bruce Lesikar (TCE), Al Cherepon (TCEQ)

Current Status – Texas-specific fact sheets describing wastewater treatment systems are available. General operation and maintenance guidance documents were developed to describe activities homeowners should implement to protect the longevity of their on-site wastewater treatment system. Additional technology-specific operation and maintenance criteria needs to be developed that can assist in meeting homeowner training needs. Homeowners need guidance on how to protect their local water resources.

Specific Activity 1 – Development of Guidance for On-Site Wastewater Disposal in Karst Terrains. The GWPC Research Foundation is seeking to fund qualified parties to investigate the following:

- Identify methods to evaluate the suitability of the karst terrain for the use of on-site systems;
- Identify the latest innovations in the design of septic systems (aerobic vs. anaerobic etc) that have shown promise, in this country and elsewhere, for maximizing the removal of contaminants from domestic waste in a karst setting;
- Review available literature and data for the purpose of evaluating and grading various systems from the view points of effectiveness as measured by achieving predetermined performance standards.
- Once effective on-site system designs have been identified, ease of maintenance will be examined. The operation and maintenance of such advanced facilities should be evaluated to determine if it is beyond the capabilities of the owner.

Specific Activity 2 – Results of investigation will be documented in a guidance document that will be targeted to three audiences – the developer, the authorized agent/local government, and the licensed installer.

- Funding Required – Yes.
- Funding Source(s) – Clean Water Act and 106 Groundwater grant.
- Personnel Required – Universities and GCDs within the Edwards-Trinity aquifer areas.
- Time frame – One year from securing funds.

Specific Activity 3 – Development of homeowner maintenance guidance for specific on-site wastewater treatment technologies.

- Funding Required – Yes.
- Funding Source(s) – ?
- Personnel Required – Technical input and review assistance to include TCEQ, TAGD, TWDB, others; drafting and publishing by TCE.
- Time frame – Short term, calendar year 2008.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Issue H – Education for Domestic Water Well Owners: Quality

Al Cherepon (TCEQ), Kathy McCormack (TCEQ)

Current Status – Fact sheets by TCE on arsenic, nitrate, perchlorate, and radionuclides, and one on Disinfection of water after a Natural Disaster. These are focused on various media and outreach meetings for domestic well owners related to natural and anthropogenic sources of hazardous constituents. These fact sheets describe occurrences/locations of high concentrations in Texas groundwater, health impacts, testing options, and treatment and system maintenance options. Useful links and references are also provided at the end of these sheets. Outreach areas have been prioritized to address the more highly impacted areas first. A Power Point presentation has also been prepared for these contaminants, focusing on choosing home treatment systems.

Specific Activity 1 – Develop additional fact sheets for urban pesticides similar to those above. These will also include the scheduling and implementing educational events and dissemination to project cooperators, the printing and publishing of guidance and educational materials, and to maintain these and make them available on the Internet.

- Funding Required – Yes.
- Funding Source(s) – Clean Water Act, 106 Groundwater grant.
- Personnel Required – TCE, other POE Subcommittee agencies.
- Time frame – FY07.

Specific Activity 2 – Additional educational delivery, such as private well screening events, where well owners provide TCE with a well water sample for fecal coliform, nitrate, and TDS analysis. When well owners come back for results, provide them with educational information, along with additional handouts of further information and resources.

- Funding Required – Yes.
- Funding Source(s) – Clean Water Act and 106 Groundwater grant.
- Personnel Required – TCE and other POE Subcommittee agencies.
- Time frame – FY07.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Issue I – Education for Domestic Water Well Owners: Quantity

Al Cherepon (TCEQ), Radu Boghici (TWDB)

Current Status – Several Texas state agencies such as TWDB, TCEQ, and Railroad Commission of Texas (RCT) have databases available containing water-level and aquifer data, recharge and groundwater use, drought information, etc., which can be used to assess the availability of groundwater on a regional basis. The State Water Plan, regional water plans, Groundwater Availability Models (GAMs), and various agency websites contain considerable data and information. Other specific sources also include:

- Brochures on GCDs;
- Mitigation issues (replacing water supplies, deepening wells, alternate water supplies);
- TWDB Water Information, Integration and Dissemination (WIID) Website/Groundwater Database;
- Drought Plans/effects.

There are well owner's guides available from various organizations, mainly state environmental agencies and some professional groups, such as Wellowner.org, Illinois Association of Groundwater Professionals, DNR Wisconsin, etc. Their materials are not dedicated exclusively to groundwater quantity but touch on the issue.

Specific Activity 1 – Literature search for what already exists.

- Funding Required – Yes, perhaps minimal.
- Funding Source(s) – TCEQ, EPA, USDA, non-profits or special interest groups ?
- Personnel Required – TCE, TCEQ, TWDB, GCD staff ?
- Time frame – 3 to 6 months.

Specific Activity 2 – Develop, publish, and disseminate “The Well Owner’s Guide to groundwater quantity” educational brochure.

- Funding Required – Yes.
- Funding Source(s) – Unknown.
- Personnel Required – Technical input and review assistance to include TCEQ, TWDB, others; layout and publishing by TCE.
- Time frame – One year from securing of funds.

Specific Activity 3 – Develop an interactive website linking Geographical Information System (GIS) and databases, where well owners can click on their county and bring up general groundwater and well-related information for their county. This may include the following:

- Aquifer(s);
 - Depth to Water (DTW) range;
 - Water quality and potential/known contaminants or water quality issues in area;
 - Anticipated range of well capacities;
 - Resources/links for additional information (such as GCDs, state agency contacts, and well owner resources).
-
- Funding Required – Yes.
 - Funding Source(s) – Clean Water Act 106 Groundwater and/or Safe Drinking Water Act grants.
 - Personnel Required – Technical input and review assistance to include TCEQ, TWDB, others; preparation by TWDB and/or TCEQ.
 - Time frame – One year from securing of funds.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Issue J – Groundwater and Oil & Gas Wells

Plugging Abandoned Oil & Gas Wells

Leslie Savage (RCT)

Current Status – RCT webpage includes information and is being maintained.

Specific Activity 1 – Review and update information on the RCT’s webpage to ensure broad audience and correct information pertinent to that audience. Update with any legislative changes as a result of the 80th Texas Legislature, Regular Session, 2007.

- Funding Required – N/A.
- Funding Source(s) – N/A.
- Personnel Required – RCT (Leslie Savage, et al) with review by TGPC POE Subcommittee members.
- Time frame – Short-term, Calendar 2007.

Specific Activity 2 – Coordinate link to RCT’s webpage with Issue E Specific Activity 4 and 5.

- Funding Required – N/A.
- Funding Source(s) – N/A.
- Personnel Required – RCT (Leslie Savage, et al), TGPC members, and TGPC POE Subcommittee members.
- Time frame – Short-term, Calendar 2007.

Specific Activity 3 – Coordinate with personnel with respect to Issue E Specific Activity 12.

- Funding Required – Yes.
- Funding Source(s) – ?
- Personnel Required – RCT (Leslie Savage, et al), TPGC members, TGPC POE subcommittee, GCDs, and others listed under that Specific Activity.
- Time frame – Same as that for Issue E Specific Activity 12.

Specific Activity 4 – Disseminate information developed under Specific Activity 3, to RCT district and other state agency offices, as well as to other entities as identified under Specific Activity 3.

- Funding Required – Yes.
- Funding Source(s) – ?
- Personnel Required – RCT (Leslie Savage, et al), TPGC members, TGPC POE subcommittee, GCDs, and others listed under that Specific Activity.
- Time frame – Same as that for Issue E Specific Activity 12.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Converting Abandoned Oil & Gas Wells into Water Wells

Leslie Savage (RCT), David Van Dresar (TAGD)

Current Status – RCT webpage includes information and is being maintained.

Specific Activity 1 – Review and update information on the RCT’s webpage to ensure broad audience and correct information pertinent to that audience, as well as ease with which it can be located by the public. Update with any legislative changes as a result of the 80th Texas Legislature, Regular Session, 2007.

- Funding Required – N/A.
- Funding Source(s) – N/A.
- Personnel Required – RCT (Leslie Savage, et al), GCDs, with review by TGPC POE Subcommittee members and TGPC.
- Time frame – Short-term, Calendar 2007.

Specific Activity 2 – Coordinate link to RCT’s webpage with Issue E Specific Activity 4 and 5.

- Funding Required – N/A.
- Funding Source(s) – N/A.
- Personnel Required – RCT (Leslie Savage, et al), TGPC members, and TGPC POE Subcommittee members.
- Time frame – Short-term, Calendar 2007.

Specific Activity 3 – Coordinate with personnel with respect to Issue E Specific Activity 12.

- Funding Required – Yes.
- Funding Source(s) – ?
- Personnel Required – RCT (Leslie Savage, et al), TPGC members, TGPC POE subcommittee, GCDs, and others listed under that Specific Activity.
- Time frame – Same as that for Issue E Specific Activity 12.

Specific Activity 4 – Disseminate information developed under Specific Activity 3, to RCT district and other state agency offices, as well as to other entities as identified under Specific Activity 3.

- Funding Required – Yes.
- Funding Source(s) – ?
- Personnel Required – RCT (Leslie Savage, et al), TPGC members, TGPC POE subcommittee, GCDs, and others listed under that Specific Activity.
- Time frame – Same as that for Issue E Specific Activity 12.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –

Water Wells Supporting Oil & Gas Wells

Leslie Savage (RCT), David Van Dresar (TAGD)

Current Status – RCT webpage includes information and is being maintained.

Specific Activity 1 – Review and update information on the RCT’s webpage to ensure broad audience and correct information pertinent to that audience, as well as ease with which it can be located by the public. Update with any legislative changes as a result of the 80th Texas Legislature, Regular Session, 2007.

- Funding Required – N/A.
- Funding Source(s) – N/A.
- Personnel Required – RCT (Leslie Savage, et al), GCDs, with review by TGPC POE Subcommittee members and TGPC.
- Time frame – Short-term, Calendar 2007.

Specific Activity 2 – Coordinate link to RCT’s webpage with Issue E Specific Activity 4 and 5.

- Funding Required – N/A.
- Funding Source(s) – N/A.
- Personnel Required – RCT (Leslie Savage, et al), TGPC members, and TGPC POE Subcommittee members.
- Time frame – Short-term, Calendar 2007.

Specific Activity 3 – Coordinate with personnel with respect to Issue E Specific Activity 12.

- Funding Required – Yes.
- Funding Source(s) – ?
- Personnel Required – RCT (Leslie Savage, et al), TPGC members, TGPC POE subcommittee, GCDs, and others listed under that Specific Activity.
- Time frame – Same as that for Issue E Specific Activity 12.

Specific Activity n –

- Funding Required –
- Funding Source(s) –
- Personnel Required –
- Time frame –