

SAN GORGONIO PASS WATER AGENCY
1210 Beaumont Avenue, Beaumont, CA
Water Conservation and Education
Committee Meeting
Agenda
February 22, 2018 at 1:30 p.m.

- 1. Call to Order and Flag Salute**
- 2. Adoption and Adjustment of the Agenda**
- 3. Public Comment**
Members of the public may address the Board at this time concerning items not on the agenda. To comment on specific agenda items, please complete a speaker's request form and hand it to the Board secretary.
- 4. Approval of the Minutes of the November 9, 2017 Conservation and Education Committee Meeting* (p. 2)**
- 5. Review of IERCD October and November Reports* (p. 4)**
- 6. Consideration of IERCD Proposal Regarding Groundwater Models* (p. 8)**
- 7. Consideration of Purchasing up to Four Groundwater Models**
- 8. Consideration of Sponsorship of Inland Solar Challenge**
- 9. Discussion of Potential Media and Social Media Outreach Efforts**
- 10. Adjournment**

***Information included in Agenda Packet**

(1) Materials related to an item on this Agenda submitted to the Board of Directors after distribution of the agenda packet are available for public inspection in the Agency's office at 1210 Beaumont Avenue, Beaumont during normal business hours. (2) Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection at the Agency's office, located at 1210 Beaumont Avenue, Beaumont, California 92223, during regular business hours. When practical, these public records will also be made available on the Agency's Internet Web site, accessible at: www.sgpwa.com (3) Any person with a disability who requires accommodation in order to participate in this meeting should telephone the Agency (951 845-2577) at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation.

SAN GORGONIO PASS WATER AGENCY
1210 Beaumont Avenue
Beaumont, California 92223
Minutes of the
Water Conservation and Education Committee
November 9, 2017

Committee Members Present:

Mike Thompson, Chair
Blair Ball
Steve Lehtonen

Staff Present:

Jeff Davis, General Manager

1. **Call to Order:** The scheduled meeting of the San Gorgonio Pass Water Agency Water Conservation and Education Committee was called to order by Committee Chair Thompson in the Agency Conference Room, 1210 Beaumont Avenue, Beaumont, California, at 1:35 pm, November 9, 2017.
2. **Adoption and Adjustment of the Agenda.** There were no changes to the agenda proposed.
3. **Public Comment:** There were no members of the public present who wished to address the Committee at this time.
4. **Minutes of the September 28, 2017 Committee Meeting.** A copy of the minutes was included in the agenda package. Director Lehtonen moved, seconded by Director Ball, to approve the minutes of the September 28 meeting. The motion passed 3-0.
5. **Review of IERCD September Report.** A copy of the report was included in the meeting agenda package. General Manager Davis reviewed the monthly report with the Committee, noting that the Committee had taken an interest in the IERCD work and wanted to follow it more closely. The report showed that the IERCD has made 18 presentations this year (through September) and has 3 more scheduled, out of a total of 43 maximum per the agreement.
6. **Review of IERCD Proposed Addendum to Contract.** An outline of the proposed addendum was included in the agenda package. The Committee liked the outline, suggesting only that more detail be included in the area of cleaning and maintaining the models over the summer, and that a proposed cost be added. The Committee indicated that it would like to have a final proposal for review at the next Committee meeting.

7. **Discussion of Potential Media and Social Media Outreach Efforts.** A cost summary of half and full page ads for the Record Gazette was included in the agenda package. The Committee discussed what a series of large ads could accomplish, and how it could drive readers to additional social media platforms where additional educational items could be posted—such as videos, news releases, and other information of interest. General Manager Davis said that he needed to discuss this issue with retail managers to determine what types of information they might want to include in the ads. It was agreed that the Committee needs to decide on the exact content of the ads, as well as their size and frequency. It was decided that, at the next meeting, Chairman Thompson would show examples of social media to the Committee so that they could get a better idea of how this could be used. The Committee agreed to meet again in January.

8. **Adjournment.** Chairman Thompson adjourned the meeting at 2:37 pm.

Draft - Subject to Board Approval
Jeffrey W. Davis, Secretary to the Board



San Geronio Pass Water Agency Water Conservation Programs Report: October 2017

To: Jeff Davis, General Manager

Contact Information: jdavis@sgpwa.com

From: Jasmine Orozco, Education Coordinator

Contact Information: 25864-K, Business Center Drive, Redlands, CA, 92374

909-283-7780

jorozco@iercd.org

www.iercd.org

Report Last Updated: 10/31/2017

On behalf of the IERCD Board of Directors, I want to thank you so much for your continued support of our District and your amazing partnership! We are excited about presenting water conservation programs on behalf of the San Geronio Pass Water Agency this school year.

San Geronio Pass Water Agency General Program Overview

Please contact Education Coordinator Jasmine Orozco if you or your Board Members are interested in attending a scheduled program for proper notification of school staff.

Total Classroom Programs Contracted: 43

- Number of programs presented: 19
- Number of programs scheduled: 3
 - 11/7/17-Brookside Elementary, Beaumont, 2 progs
 - 11/9/17-Brookside Elementary, Beaumont, 1 prog
- Number of outstanding programs: 21

Total Teacher Workshops Contracted: 2

- Number of workshops presented: 0
- Number of workshops scheduled: 2
- Number of outstanding workshops: 2

Schools/Cities

Water conservation programs have been presented in the following schools:

- Banning High School, Banning, 11 progs
- Cabazon Elementary, Cabazon, 6 progs
- Hemmerling Elementary, Banning, 1 prog
- Palm Elementary, Beaumont, 1 prog

Yearly total of students reached with SGPWA Water Conservation messaging to date (at an average of 30 students per class): 570 students

Presentation Links

These links represent the most recent Prezi being presented on behalf of SGPWA. Please send any feedback concerning elements that should be excluded or are missing from the presentations.

- **Kindergarten:**
<https://prezi.com/ou8ixwt-cjrl/sgpwa-kinder-only/>
- **1st grade:**
<https://prezi.com/nekt9qfvtzhv/sgpwa-1st-grd/>
- **2nd-3rd grade:**
<https://prezi.com/a45fctrrxhej/sgpwa-2-3/>
- **4th-5th grade:**
<https://prezi.com/fefkmgpowrj/sgpwa-4th-5th-grd/>
- **Middle School**
<https://prezi.com/t1mbhultiaox/sgpwa-6-8th-grade/>
- **High School**
<https://prezi.com/7zbj48z8aauw/sgpwa-high-school/>



San Geronio Pass Water Agency Water Conservation Programs Report: November 2017

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Report Last Updated: 11/30/2017

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San Geronio Pass Water Agency General Program Overview

Please contact Education Coordinator Jasmine Orozco if you or your Board Members are interested in attending a scheduled program for proper notification of school staff.

Total Classroom Programs Contracted: 43

- Number of programs presented: 22
- Number of programs scheduled: 0
- Number of outstanding programs: 21

Total Teacher Workshops Contracted: 2

- Number of workshops presented: 0
- Number of workshops scheduled: 2
 - Thursday, February 8th 3-7pm, Beaumont Unified School District Headquarters
 - Thursday, March 1st 3-7pm, Beaumont Unified School District Headquarters
- Number of outstanding workshops: 2

Schools/Cities

Water conservation programs have been presented in the following schools:

- Banning High School, Banning, 11 progs
- Cabazon Elementary, Cabazon, 6 progs
- Hemmerling Elementary, Banning, 1 prog
- Palm Elementary, Beaumont, 1 prog
- Brookside Elementary, Beaumont 3 prog

Yearly total of students reached with SGPWA Water Conservation messaging to date (at an average of 30 students per class): 660 students

Presentation Links

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- **Kindergarten:**
<https://prezi.com/ou8ixwt-cjrl/sgpwa-kinder-only/>
- **1st grade:**
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- **2nd-3rd grade:**
<https://prezi.com/a45fctrrxhej/sgpwa-2-3/>
- **4th-5th grade:**
<https://prezi.com/fefkmgpowrj/sgpwa-4th-5th-grd/>
- **Middle School**
<https://prezi.com/t1mbhultiaox/sgpwa-6-8th-grade/>
- **High School**
<https://prezi.com/7zbj48z8aauw/sgpwa-high-school/>

PROPOSED ADDENDUM TO SGPWA-IERCD 2017-18 WATER
CONSERVATION OUTREACH CONTRACT



SAN GORONIO PASS
WATER AGENCY
▪ Established 1961 ▪



INLAND EMPIRE
RESOURCE
CONSERVATION DISTRICT

Date: December 6th, 2017

PROPOSED STATEMENT OF WORK:

GROUNDWATER DYNAMICS USING 3-DIMENSIONAL MODEL

Summary: The San Geronio Pass Water Agency (SGPWA) board of directors consistently works to determine most effective methods of water conservation education and outreach to residents within their service area. To date, the majority of these methods have focused on IERCD-led instruction in the classroom and at SGPWA headquarters; however, in the current fiscal year, the Agency and IERCD are exploring the potential to stretch the impact of these monies even further. The model suggested by SGPWA is to train educators within Agency boundaries on the fundamentals of water conservation presentation and model demonstration; once trained, these teachers would then be able to pass this training along to both colleagues and directly to their K-12 students. Using this model, the reach of dollars invested in annual resource management in SGPWA service area is projected to grow significantly, increasing total number of residents aware of the role of groundwater management in ensuring ongoing regional supply.

The approach for layering training on top of program requests is projected to include the following core elements:

1. SGPWA will purchase and provide four groundwater models for the three local high schools (Yucaipa, Beaumont, Banning) and one for IERCD use.
2. IERCD will develop protocol and train the pre-selected teachers on how to best prepare, facilitate presentations and model use, then provide content reinforcement opportunities to most effectively communicate importance of groundwater to participating students.
3. After initial training it would be up to the schools to decide how they would use them, how frequently, and for what classes, although IERCD will provide a suggested framework to lead teachers in an attempt to maximize model sharing and use among faculty members.
4. The IERCD will retain responsibility for models on behalf of SGPWA, through dropping them with the lead teacher at the beginning of each school year and picking them up at the end of each school year. This regular contact will help IERCD assist teachers with maintenance of models for maximum lifetime and function, and will also provide regular opportunities to update classroom and pre/post classroom content.

POTENTIAL DESIGN - SGPWA AQUIFER MODEL TRAINING PROGRAM

Training approach: in the current contract, SGPWA has requested that IERCD facilitate two teacher workshops on campuses within its service area. This requirement has the potential to focus on objectives stated in the contract covering 2017-18, but also has the potential to include a specific focus on aquifer model and instruction strategy

- Participants: SGPWA will identify one “lead” teacher from each high school; IERCD will also directly outreach to departments in each high school for additional participation
- Agenda for trainings: Aquifer model excerpt
 - Review of SGPWA role in groundwater management/long-term regional water supply development and sustainability; partnership between IERCD-SGPWA
 - Review of standards corresponding to aquifer demonstration: Next Generation Science Standards (NGSS); specifically, *HS-ESS2-5. Plan and conduct an investigation of the properties of water and its effects on Earth materials.*
 - *Emphasis is on mechanical and chemical investigations with water and a variety of solid materials to provide the evidence for connections between the hydrologic cycle and system interactions commonly known as the rock cycle.*
 - Review of topics directly/indirectly connected to aquifer use:
 - Geological materials; sand, soil, gravel, rock
 - Infiltration
 - Recharge
 - Soil moisture
 - Water table
 - Storage
 - Contaminants/Treatment
 - Structure of classroom use of aquifer model:
 - Pre-program content
 1. Vocabulary
 2. Age/class-appropriate activities to conduct in days leading up to aquifer program
 - Prezi – online presentation capable of integrating audio/video with graphics that are easily updated; IERCD groundwater model Prezi will be provided in hardcopy, with training attendees walked through each frame, and Q/A on content. Focus on ability of each teacher to begin with existing Prezi template, and modify for individual class needs
 - Model facilitation
 - Post-program materials:
 1. Content comprehension quizzes
 2. Post-program activities
 3. Link to resources to allow instructors to tailor presentation and pre/post program content to class needs
 - Small group work to experiment with models, ask additional questions
 - All participants leave with flash drive of suite of documents covering aquifer model preparation, facilitation, post-program reinforcement, plus proper care and maintenance to lengthen life of model

PROGRAM OPERATIONS

Approach: the IERCD is also planning to develop a companion set of guidelines for individual campus use of models, to include the following elements:

- Design of individual campus trainings for participating teachers focusing on aquifer model storage and use guidelines
- Template calendar for teachers to allow transition of model among classrooms, to include a recommended timeframe for participating teachers
 - Role of Science team lead at each school site to keep model moving between users
- Development of training materials for use and care of models
- Additional availability of IERCD support for participating teachers, ranging from model care/maintenance to classroom support to pre/post-program help
- IERCD staff will collect models at end of school year, clean and store over the summer months, and then return to school sites at the beginning of the new school year.