



SWPPP Internship™ Program

SWPPP Internship™ Program educates, trains and empowers students to develop sustainable solutions to reduce stormwater pollution from their school site.



Rain event sample collection



Monthly visual observations



Campus drain maintenance

1,600+
students engaged

26
schools

7
years of internships

Elementary, middle and high school student interns:

- Study the impact stormwater pollutants from their school site have in local waterways.
- Develop educational and structural solutions to reduce pollutants entering storm drains.
- Document activities that help your city meet state permit requirements.
- Write and present findings in an industry-style Stormwater Pollution Prevention Plan (SWPPP).

City Benefits

- Multiplies public education and outreach efforts
- Engages future environmental leaders
- Builds a community of water quality advocates
- Defines future career and educational pathways
- Connects professionals to the next generation

Educational Benefits

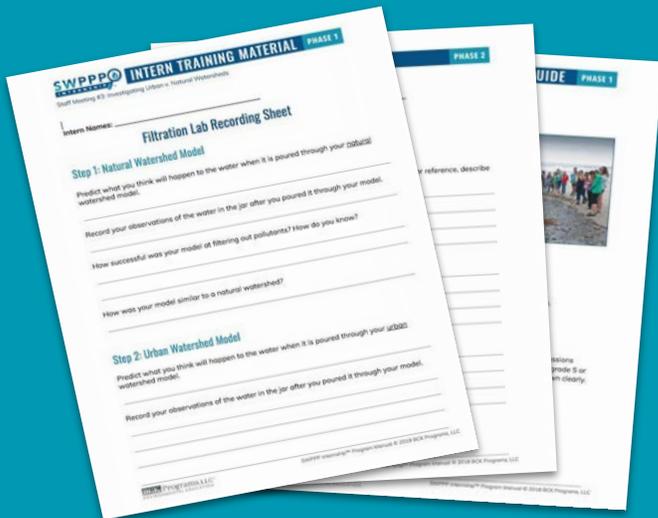
- Aligns with Common Core and NGSS
- Develop essential real-world skills
- Practice data analysis and critical thinking
- Collaborate on engineering design
- Practice public speaking

Resources Included



Training, Support & Customization

- One-on-one training of classroom teacher
- On-going, site-specific support by assigned BCK Programs Coordinator
- Customization for local watershed
- Storm drain infrastructure maps for school
- Assistance in planning year-end presentation
- Arrangement of professional guest visitors
- Source local certified testing lab and arrange testing and courier services
- Guidance to implement intern-designed structural projects



Comprehensive Program Manual

Each of the 28 staff meetings includes the following:

- Defined objectives
- Detailed staff meeting lesson plans
- Materials lists
- Preparation instructions
- Background research
- Technical terminology and definitions
- Common Core and NGSS Standards
- Staff meeting agenda
- Digital access to BCK Programs Google Drive



Equipment and Materials

- Catch basin maintenance equipment
- Stormwater sample collection equipment
- Certified lab testing materials and fees
- Personal protective equipment for interns
- Watershed boundary materials
- In-class stormwater sample testing materials
- Watershed lab (elementary program only)
- Filtration lab (elementary program only)
- Serial dilution lab

Program Design



Elementary School Edition

The Elementary School Edition is appropriate for students in fifth through seventh grade. All materials are age-appropriate yet challenge students with STEM-based analysis and hands-on training.

Secondary School Edition

The Secondary School Edition is appropriate for use with middle and high schools students. The material is similar to the Elementary School Edition with additional focus on career skill development and building vocational and educational connections in the community.

Recent Intern Accomplishments

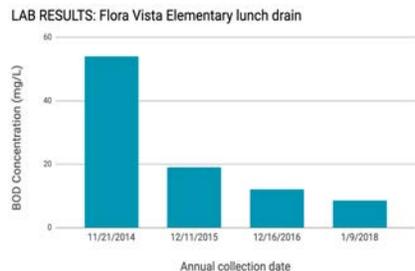


City Council formally adopts SWPPP intern resolution

After observing plastic-wrapped straw wattles degrade and send plastic into the storm drain, middle school SWPPP interns wrote and presented a city resolution to switch to a more sustainable choice, which was unanimously adopted.

Four-year data confirms measurable impact

Rain samples collected over four years by Flora Vista Elementary interns demonstrate a measurable reduction in pollutants entering storm drains on their campus as a result of their work changing behaviors on campus and by designing structural solutions.



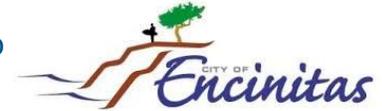
Testimonials

“The presentations provided clear examples of deep understanding of the issues by students, visuals of how they solved problems, samples of their actions taken to educate others and thoughtful demonstrations of their creativity! It was quality problem-based, design-thinking, real world learning at its very best!”



- Andrée Grey, Ed.D., Superintendent, EUSD

“The work the students are doing is inspiring, and these programs are filling an education and outreach space that is extremely valuable, but difficult for Cities to reach in a meaningful way.”



- Erik Steenblock, Environmental Programs Manager, City of Encinitas

Our Partners

These cities and businesses are helping prepare the next generation of young water quality enthusiasts.



BCK Programs, LLC™

Since 2013, the managing partners at BCK Programs have been facilitating student groups to develop sustainable solutions in the areas of water quality and conservation, waste reduction, energy conservation and school gardens. Years of working alongside teachers, administrators and students has helped formulate BCK's hand-on, problem-based approach that consistently yields meaningful outcomes with measurable results. See www.bckprograms.com for more.