

**STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

STAFF REPORT FOR REGULAR MEETING OF DECEMBER 9, 2010

Prepared on November 9, 2010

ITEM NUMBER: 18

SUBJECT: Executive Officer's Report to the Board

This item presents a brief discussion of issues that may interest the Board. Upon request, staff can provide more detailed information about any particular item.

WATER QUALITY CERTIFICATIONS

[Kim Sanders 805/542-4771]

In general, staff recommends "Standard Certification" when the applicant proposes adequate mitigation. Measures included in the application must ensure that beneficial uses will be protected, and water quality standards will be met.

Conditional Certification is appropriate when a project may adversely impact surface water quality. Conditions allow the project to proceed under an Army Corps permit, while upholding water quality standards.

Staff will recommend "No Action" when no discharge or adverse impacts are expected. Generally, a project must provide beneficial use and habitat enhancement for no action to be taken by the Regional Board. The charts on the following pages list applications received from August 19, 2010 – November 8, 2010 and, in response to Board Member questions, we are listing certifications approved September 1, 2010 – November 8, 2010.

Table 1: 401 Water Quality Certifications Received August 19, 2010 – November 8, 2010

Applicant	Date Received	Project Title	Project Purpose	Location	County	Receiving Water	Total 1 Acreage	Status
Arthur Cody - Property Owner	8/19/10	Cody Residence Bank Stabilization	Protect an existing residential structure by stabilizing a failing gabion wall along the north bank of Marshall Creek	Ben Lomond	Santa Cruz	Marshall Creek	0.006	Certification issued November 3, 2010.
Faranak Mahdavi - Santa Clara County Roads & Airports Dept.	9/14/10	Scour Protection for Carnadero Creek Bridge at Bloomfield Avenue	Repair the scour conditions at the base of Bridge Pier #2, where the footing is exposed and timber pile tips are visible.	Gilroy	Santa Clara	Carnadero Creek	0.03	Under staff review
Jason Tyra - Castlerock Development	9/14/10	Oak Ridge Estates at 3-F Meadows	Complete road construction and related infrastructure within the Oak Ridge Estates project.	Atascadero	San Luis Obispo	Graves Creek, Morro Creek and Atascadero Creek.	0.355	Under staff review
Matthew Roberts - City of Carpinteria	9/20/10	Carpinteria Winter Protection Berm	Provide seasonal flood and storm wave damage control for public and private improvements along the Carpinteria City Beach.	Carpinteria	Santa Barbara	Pacific Ocean	1350 linear feet	Under staff review
Richard Llantero - City of Monterey	9/20/10	Wharf 1 Structural Repairs and Wharf 2 Re-construction	Replace, treat, and or repair sections of Wharf 1. Install metal finch plates to strengthen the pile caps on Wharf 2.	Monterey	Monterey	Pacific Ocean (Monterey Bay)	0.1	Under staff review
Faranak Mahdavi - Santa Clara County Roads & Airports Dept.	9/21/10	Scour Protection for Walnut Avenue Bridge over Pacheco Creek, Hollister CA	Repair of scour conditions at the base of Bridge Abutment #1, the left and right wingwalls, and both piers, where scour is located within the footings or piles	Hollister	Santa Clara	Pacheco Creek	0.04	Under staff review
Faranak Mahdavi - Santa Clara County Roads & Airports Dept.	9/23/10	Scour Protection for Masten Avenue Bridge Over Llagas Creek	Repair the scour conditions at the base of Bridge Abutment #1 and Pier #2, where scour is located within the footings or piles.	Gilroy	Santa Clara	Llagas Creek	0.02	Under staff review
Arman Nazemi - San Benito County Public Works	9/29/10	Storm Damage Repair at Coalinga Road over Horsethief Canyon Creek	Repair and restore road washout and increase the drainage facility by installing an additional 6-foot diameter culvert	San Benito County	San Benito	Horsethief Canyon Creek	0.08	Under staff review
Faranak Mahdavi - Santa Clara County Roads & Airports Dept.	9/29/10	Scour Protection for Llagas Avenue Bridge over Llagas Creek, San Martin CA	Repair the scour conditions at the base of Bridge Abutment #1 and #3 and Pier #2, where scour is located within the footings.	San Martin	Santa Clara	Llagas Creek	0.06	Under staff review

Applicant	Date Received	Project Title	Project Purpose	Location	County	Receiving Water	Total Acreage	Status
Faranak Mahdavi - Santa Clara County Roads & Airports Dept.	9/30/10	Scour Protection for Bowden Court over Llagas Creek, Morgan Hill, CA	Repair the scour conditions at the base of Bridge Abutment #1 and Piers #2 and #3, where scour is located within the footings.	Morgan Hill	Santa Clara	Llagas creek	0.05	Under staff review
Gary Ruggerrone – CalTrans	10/13/10	Santa Margarita Culvert Replacement	Replace corroded culverts to prevent future failure and maintain a safe travel way for the public.	Santa Margarita	San Luis Obispo	Trout Creek, Shell Creek	0.017	Incomplete Application
Gary Ruggerrone - CalTrans	10/13/10	Arroyo Grande Culver Maintenance	Repair culvert end sections to prevent continued erosion and eventual facility failure.	Arroyo Grande	San Luis Obispo	unnamed tributaries to Arroyo Grande Creek	0.01	Incomplete Application
Craig Matthey - MD2 Communities, Inc.	10/18/10	Lagunitas Mixed Use Project	Construct 37 single family homes, and 36 condominiums on 14 acres, 84,550 square feet of commercial/office buildings with 340 vehicle spaces on 8.5 acres, and open space on 2.5 acres.	Carpinteria	Santa Barbara	Lagunitas Creek	0.197	Under staff review
Mark McCune - Union Pacific	10/18/10	UPRR, Bridge 70.5 Coast Subdivision, Bridge Replacement Project	Replace the existing Bridge 70.5, which has reached its structural life expectancy and poses a safety risk if not replaced	San Martin	Santa Clara	Llagas Creek	N/A	Under staff review
Gene Margheim - City of Lompoc Water Division	10/19/10	Frick Springs Pedestrian Bridge Replacement	Deconstruct and remove an existing pedestrian bridge, replacing it with a new bridge in the same location. The current bridge has become unusable.	Lompoc	Santa Barbara	San Miguelito Creek	0	Under staff review
Susan Lichten - City of Morro Bay	10/19/10	Morro Bay State Park Marina Launch Ramp Rehabilitation	Repair existing, aged infrastructure within the State Park Marina, specifically the existing kayak launch ramp and associated retaining walls and furnishings.	Morro Bay	San Luis Obispo	Morro Bay, Pacific Ocean	0.02	Incomplete Application
Faranak Mahdavi - Santa Clara County Roads & Airports Dept.	10/21/10	Scour Protection for Furlong Creek Bridge at Bloomfield Avenue, Gilroy CA	Repair the scour conditions at the base of Bridge Abutment #1, Abutment #2, and Pier #2, where scour is located within the footings or piles.	Gilroy	Santa Clara	Furlong Creek (Dexter)	0.03	Under staff review
Steven Greig - Venoco, Inc.	10/21/10	Repair South Wall on 421-2 Caisson	Repair and strengthen the existing 421-2 oil well caisson which has been rapidly deteriorating due to continual wave and environmental action.	Goleta	Santa Barbara	Pacific Ocean	0.004	Under staff review
Susan Lichten - City of Morro Bay	10/21/10	Morro Bay State Park Marina Maintenance Dredging Project	Conduct maintenance dredging to remove shoaled materials and hazards to navigation.	Morro Bay	San Luis Obispo	Pacific Ocean	9	Under staff review

Applicant	Date Received	Project Title	Project Purpose	Location	County	Receiving Water	Total Acreage	Status
Ned Quackenbush - Property Owner	10/29/10	Quackenbush Residence	Construct a 3,959 square foot single-family residence at 501 Sand Point Road.	Carpinteria	Santa Barbara	El Estero (Carpinteria Slough) and Pacific Ocean	0.02	Under staff review

^[1] Total Acreage includes both temporary and permanent impacts to riparian, streambed, and/or wetland environments within federal jurisdiction.

Table 2: 401 Water Quality Certifications Approved September 1, 2010 – November 8, 2010

Applicant	Date Certified	Project	Purpose	Location	County	Receiving Water	Total Acreage ¹
Joel Neel - Cal Poly	09/01/10	Pennington Creek Wooden Bridge Removal Project	Remove bridge to prevent damage to or flooding of downstream resources in the event of bridge collapse	San Luis Obispo	San Luis Obispo	Pennington Creek	0.220
Amy Corps of Engineers	09/09/10	Santa Barbara Harbor Dredging Operations	Harbor channel dredging; sand trap maintenance within the harbor entrance and navigation channels; discharge of dredged material onto East Beach	Santa Barbara	Santa Barbara	Pacific Ocean	14.000
Joan Carpenter - California State Parks	09/13/10	Tin House Road Improvement Project	Dirt removal from roadside turn	Big Sur	Monterey	Redwood Creek	0.060
Pete Pearson	09/16/10	Pearson Property Gully Stabilization	Repair and stabilization of an eroded gully that originates at a culvert on Benedict Avenue and extends downstream for approximately 535 linear feet	Soquel	Santa Cruz	Arana Creek	1.200
Taj Dufour - Soquel Creek Water District	09/20/10	Valencia Creek Crossing Main Repair	To repair a leaking fitting on an 8-inch diameter water main	Aptos	Santa Cruz	Valencia Creek	0.007
City of Monterey	09/23/10	Monterey Harbor Maintenance Dredging Project	Remove up to 100,000 cubic yards of accumulated sand from Monterey Harbor over a 10-year period	Monterey	Monterey	Pacific Ocean	0.730
Gregory Barr	10/14/10	Secondary Access Road	Provide alternative access for harvest trucks	Paso Robles	San Luis Obispo	Huer Huero Creek, Estrella River	0.02

Applicant	Date Certified	Project	Purpose	Location	County	Receiving Water	Total Acreage ¹
John Ricker -- Santa Cruz County	11/01/10	Large Woody Material Management Program	The implementation of the County of Santa Cruz Large Woody Material Management Program.	Santa Cruz	Santa Cruz	Various	Various
Arthur Cody - Property Owner	11/03/10	Cody Residence Bank Stabilization	Protect an existing residential structure by stabilizing a failing gabion wall along the north bank of Marshall Creek.	Ben Lomond	Santa Cruz	Marshall Creek	0.006

^[1] Total Acreage includes both temporary and permanent impacts to riparian, streambed, and/or wetland environments within federal jurisdiction.

REGIONAL REPORTS

Regional Monitoring [Karen Worcester 805/549-3333]

At the September 2, 2010 Board meeting, a member of the public, Bardin Bengard, commented that he did not believe that the Central Coast Ambient Monitoring Program collected reliable data because on the CCAMP website, data was shown at a site on Alisal Creek that he knew to be dry. CCAMP staff discussed this concern with him after the meeting. He did not realize that the website shows multiple data points collected over a period of years, and that the site in question, though dry at some times of year, has been sampled during the wet season when it is flowing. Staff clarified this with him directly.

Also at the September Board meeting, Steve Shimek of Monterey ChannelKeepers expressed his concern that CCAMP did not have an adequate sediment assessment approach. CCAMP does not have a single "sediment assessment" methodology, but measures a number of parameters that can be used to evaluate stream health from the standpoint of sedimentation. These include measures like benthic invertebrate community health, embeddedness, stream particle size, suspended solids, and turbidity. However, we have not yet developed a standard protocol for combining these various data types into a sediment assessment approach that can be used for 305(b) assessments, 303(d) listing and other purposes. We have supported grant work by the Sierra Nevada Aquatic Research Laboratory that looked in detail at how benthic invertebrate communities respond to sedimentation in streams. We plan to apply elements of that approach, along with other supporting information, to develop or support at least one 303(d) listing for sedimentation for the 2012 listing cycle. This will require that multiple sources of data be evaluated against newly developed thresholds, that appropriate documentation be developed to support the approach, and that State Board staff who are preparing the listing package find that the approach is scientifically sound as we move the decision through the listing process. By using this method with this next listing, we will formalize the approach, allowing us to apply it more broadly in future listing cycles. Alternatively, we may determine that the data we currently collect is insufficient to support a listing. In this case we will include sediment assessment methods as part of our evaluation of program expansion priorities associated with our endowment growth.

CCAMP staff is currently working hard to get the next round of data delivered to the State Board for the 2012 303(d) listing process. Dave Paradies has provided our data scanning tool to State Board staff and they have begun successfully adapting it for use with other Regions' data. Data sources include our own, the Cooperative Monitoring Program for Agriculture, the City of Salinas stormwater program, and several other smaller data sources.

ADMINISTRATIVE REPORTS

Presentations, Education, and Training [Roger Briggs 805/549-3140]

Dominic Roques attended a two-day Episodic Streams Workshop sponsored by the Water Board Training Academy on November 8 and 9, 2010. The workshop explored the physical processes, ecological adaptations, and management challenges of episodic streams in California. Mr. Roques will use the information presented and maintain the connections with agency counterparts he acquired at the workshop as he continues developing and implementing

the Central Coast Water Board's regulatory strategies to maintain watershed health and prevent avoidable hydromodification impacts.

On August 31, 2010, staff engineer Kristina Seley spoke at a Cuesta Junior College, Introduction to Engineering class. Kristina discussed why she entered her field of study, what she enjoys about her employment at the Water Board, how to prepare for the professional civil engineering exam, and the challenges she has faced in school and work.

On November 10, 2010, supervising engineer Harvey Packard spoke to the Sanitation Agencies Managers Association in Montecito about salt and nutrient management plans required by the state Recycled Water Policy.

On November 15, 2010, Environmental Program Manager Lisa McCann discussed development of Ag Order revision concepts at the Sustainable Ag Expo Conference in Seaside.

Budget Status [Roger Briggs 805/549-3140]

The legislature approved a budget for California after a record breaking impasse. We have not yet received our allocation of that budget from the State Board, but we expect to receive it shortly. The Governor also negotiated employment contract terms with the SEIU (Service Employees International Union) and then issued an Executive Order which set the same terms for non-union represented supervisors and managers. In our office, our administrative staff members are in the SEIU. Those terms for administrative and supervisory/management staff include:

1. Personal Leave Days – one unpaid day per month (approximately 5% pay cut) from November 2010 through October 2011. Personal leave days can then be used like vacation days (with supervisors' approval), but may not be accrued for cash out (as they are unpaid). They are to be used before vacation days are used.
2. Increase in withholding from paycheck for retirement fund payment from 5% to 8%. The combined total of these two terms amounts to about an 8% pay reduction.
3. Two paid Professional Development days per year (concurrent with elimination of two holidays).
4. Effective July 1, 2013, a new top step will be added to the pay ranges for classifications that is 3% higher than the current top step. Only employees who reach the top of the pay range will be affected by the change.
5. For non-represented and non-statutory exempt employees except those affiliated with Bargaining Units 5 and 8 hired on or after November 1, 2010:
 - a) Return to pre-SB 400 retirement formulas for Miscellaneous and Industrial (to 2 percent at age 60), State Safety (to 2 percent at age 55), and Peace Officer (to 2.5 percent at age 55) retirement categories.
 - b) Change the pension benefit formula for employees in the firefighter and peace officer retirement categories from 3 percent at age 50 to 2.5 percent at age 55.

6. Salary savings increase from 5% to 10%. This change means our organization is limited to 90% of our originally budgeted amount. This provision in conjunction with the above pay reductions yields a budget savings of about 13.5%. We expect that the additional 5% in Salary Savings will actually be removed from our budget by way of dollar and position reductions. This reduction is without regard to funding source, so we will be losing 5% of our federal dollars, cost recovery dollars, etc. We will be left with a "95% budget," as a new baseline budget and then we will still have the traditional 5% Salary Savings as a limit within that new budget figure.

The SEIU ratified the new contract terms on November 9, 2010. Most of the employees in our office are neither SEIU nor supervisors/managers; they are Engineers, Engineering Geologists (both in bargaining unit 9) and Environmental Scientists (unit 10). Those union leaders have not come to terms with the Governor. Consequently, their three day a month furlough directive from the Governor continues (about a 13.9% reduction). However, they are now self-directed furloughs, meaning the office is no longer closed on Fridays and it is up to the employee/supervisor to schedule those furlough days every month.

The combined effect of this situation on our workload is that we currently have about a 12% reduction in staffing hours every month with our existing employees. As staff leave (e.g., retirement), we will not be able to replace them, so the percentage reduction will continue to climb. Currently scheduled retirements will take us from 12% to a 14.3% reduction in work force by the end of December. That reduction is in addition to our recent loss of Burton Chadwick and Sandy Cheek, as we were not allowed to replace them. Even if the hiring freeze were lifted, we would still not be able to hire anyone until four more people leave, due to the salary savings requirements.

As we lose people, we need to reassign their work, as well as reevaluating how that work fits in with all the other priorities in the office and region. Consequently, we have been further refining our priorities to try to ensure that across our units, programs, and staff, we are working on the highest priority problems within the other constraints that we have. We also have more incentive than ever to examine our remaining higher priority tasks and see if there are more streamlined, efficient ways to get the jobs done.

We can discuss these issues and provide updates at the Board meeting.

LID Initiative Annual Report [Phillip Hammer 805/549-3882]

The Central Coast Low Impact Development (LID) Initiative submitted its 2010 Annual Report to Water Board staff on October 14, 2010 (**Attachment 1**). The Central Coast LID Initiative began operating in August, 2008 with a primary purpose of providing technical LID services to municipalities and other stakeholders. The 2010 Annual Report describes work completed for the period October 1, 2009 – September 30, 2010.

During this period, the Central Coast LID Initiative¹ has increased awareness and knowledge of LID throughout the region and has continued to play an important role in bringing about a more constructive engagement among municipal stormwater stakeholders, and between those stakeholders and the Water Board's municipal stormwater regulatory program. The Central

¹ New contractual arrangements in May 2010 necessitated a new name for the effort: Central Coast LID Initiative replaces the former name, Central Coast LID Center.

Coast LID Initiative has accomplished this through completing its 2009-2010 Annual Work Plan, developed in close coordination with Water Board staff.

The Water Board allocated \$2.25 million in February of 2008 to establish and support a Central Coast LID Initiative. These funds included \$2 million, initially established as an endowment,² and \$250,000 in flexible funds to be used as needed to support the Central Coast LID Initiative. In July 2008, the Water Board redirected an additional \$101,775 from previously approved LID project funds to support the Central Coast LID Initiative, making the total flexible allocation \$351,775. The 2010 Annual Report includes a summary financial statement for the LID accounts managed for the Water Board by the Bay Foundation of Morro Bay. The statement indicates that \$242,000 in Supplemental Environmental Project (SEP) funds were added to the LID principal in 2010. These funds improve the financial position of the Central Coast LID Initiative over the near term and provide a sound basis for possible expansion of its operations in the longer term through leveraging alternative funding sources.

Central Coast LID Initiative Program Director Dr. Darla Inglis operates from the Water Board's San Luis Obispo offices as a satellite of the Central Coast LID Initiative's new institutional home, the University of California Davis Extension, Center for Land Use and Natural Resources. Dr. Inglis' time is split 80 percent to the Central Coast LID Initiative and 20 percent to the Center for Land Use and Natural Resources. The Central Coast LID Initiative budget also provides Dr. Inglis with support from contractors for specific tasks such as providing assistance to municipalities on LID parking lot design and training municipal staff on LID design.

The LID Initiative's Work Plan for the current year, October 1, 2010 – September 30, 2011 (**Attachment 2**), includes tasks that further assist Central Coast municipalities in meeting the Water Board's regulatory requirements for LID and hydromodification control. This year's accomplishments and task progress are discussed in the attached report and summarized in Table 1 of the report (see page 17). A major task in the current year is Dr. Inglis' management of the contract to develop a methodology that municipalities can follow in developing hydromodification control criteria appropriate for their location. Development of this methodology will be a major milestone in advancing successful implementation of LID in the Central Coast, as well as the entire State. Water Board staff and Dr. Inglis successfully leveraged Water Board LID funds to secure \$580,000 for this project from the State Water Resources Control Board's Clean-up and Abatement Account.

Water Board staff manages implementation of the LID Initiative's Annual Work Plan and senior management participates in quarterly status and review meetings. An annual performance review commences with submittal of the Annual Report. Eventually, the measure of success for Water Board staff and the LID Initiative will be based on municipalities adopting and implementing effective LID and hydromodification requirements, ordinances, etc., and the design and building of projects and infrastructure that meet the new requirements.

ATTACHMENTS

1. 2010 Annual Report for Central Coast LID Initiative
2. Current Year Annual Work Plan for LID Initiative

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² In May 2009, the Water Board approved a resolution allowing expenditure of the \$2 million endowment, if necessary, because of the economic downturn, which substantially limited the availability of funding from alternative sources such as State Propositions and private foundations. Recent recovery in the financial markets has increased income and earnings on the \$2 million principal.



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ANNUAL REPORT, 2009 - 2010

Item No. 18, Attachment 1
December 9, 2010 Meeting
2010 Annual Report for Central
Coast LID Initiative

THE LOW IMPACT DEVELOPMENT INITIATIVE



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Annual Report, 2009 - 2010

THE LOW IMPACT DEVELOPMENT INITIATIVE

The Low Impact Development Initiative (LID Initiative) Annual Report

The LID Initiative annual report covers the period October 1, 2009 through September 30, 2010 and includes:

1. A description of factors that influenced the LID Initiative work plan
2. A LID Initiative work plan performance summary
3. A description of the LID Initiative program operations
4. Notation of projected LID Initiative opportunities and challenges

1. Program Influences

The LID Initiative was established in 2008 to further the vision of healthy watersheds through the implementation of LID and hydromodification control principles. Geographically, the work covers the Central Coast region, specifically, the area regulated by the Central Coast Regional Water Quality Control Board (Water Board). Initial tasks for the LID Initiative were focused on providing Central Coast municipalities "hands on" technical expertise for LID projects. However, the recessed economy significantly decreased the number of projects being constructed throughout the region and subsequently the need for direct technical assistance was minimal. In some respects, the slow down in new and redevelopment was beneficial as it provided an opportunity to more thoughtfully develop the LID program elements needed for successful municipal LID implementation. Consequently, the most significant task (i.e. budget and priority) within the LID Initiative 2009-2010 work plan was the technical assistance provided to municipalities related to the development and implementation of stormwater hydromodification control criteria. The LID Initiative recognized that a coordinated approach in the development of hydromodification control criteria, using subject area experts to optimize the scientific validity and implementation likelihood, will ultimately provide the highest water quality value. As such, the LID Initiative played a key role in the creation of a collaborative or "Joint Effort" between the Central Coast municipal separate storm sewer systems (MS4s) and the Water Board to address hydromodification control requirements. The Joint Effort, along with other tasks related to LID, continues to be a focus of the LID Initiative work plan (i.e., 2010-2011).

2. LID Initiative Work Plan Performance

Some LID Initiative highlights accomplished as part of this reporting cycle include:

- Led the development of the Joint Effort scope of work to develop numeric hydromodification control criteria, which advances the goal of healthy watersheds through protection and restoration of natural hydrologic processes.
- Created the "R3 Stormwater Group" to facilitate communication and problem-solving between the Central Coast municipalities and the Water Board.

- Created a partnership with the City of Paso Robles to develop a LID street design and grant proposal. Leveraged LID account resources to create the concept designs.
- Provided LID design training to key staff at nine municipalities, including the cities of Salinas, Santa Maria, Watsonville, Monterey, Marina Del Rey, Pacific Grove, Sand City, Seaside; and the County of Monterey. These trainings have resulted in progressive steps by municipalities to integrate LID into their project review and approval process. (note: the LID design training is offered to all Central Coast MS4s and is continuing as part of the 2010-2011 LID Initiative work plan).
- Facilitated coordination between State and Water Board (Region 3) staff related to the statewide Phase II Stormwater NPDES Permit and Central Coast hydromodification control efforts.
- Established the LID Initiative as a non-partial resource providing LID and hydromodification expertise to Central Coast stormwater stakeholders. This has allowed for communicating and progressing on technical, policy, and regulatory issues among and between stakeholders.

Table 1 provides an overall assessment of the LID Initiative work performance for the period October 1, 2009 through September 30, 2010. Text following the table provides more detail on each task item.

Table 1 Summary of the 2009-2010 LID Initiative work plan elements and performance.

Work Plan Area	Description	Within Budget	On Schedule	Progress Toward Desired Results
LID at the Parcel Scale	<p>Includes tasks related to hydromodification control for new and redevelopment.</p> <p>The Joint Effort</p> <p>Applicability thresholds</p> <p>LID design training</p> <p>Green parking lot</p> <p>Bioretention vegetation guidance</p> <p>Municipal code updates</p>	<p>●</p> <p>●</p> <p>○</p> <p>○</p> <p>●</p> <p>○</p>	<p>○</p> <p>○</p> <p>●</p> <p>○</p> <p>○</p> <p>○</p>	<p>○</p> <p>○</p> <p>●</p> <p>●</p> <p>○</p> <p>○</p>
LID at the Infrastructure Scale	<p>LID focus at street infrastructure scale.</p> <p>Includes the City of Paso Robles’s Green Street project and Central Coast green street guidance.</p>	<p>●</p>	<p>○</p>	<p>●</p>
LID at the Watershed Scale	<p>Includes support for alternative compliance options (e.g., stormwater trading, fee-in-lieu), and the Water Board’s Watershed Protection Basin Plan update.</p>	<p>●</p>	<p>○</p>	<p>○</p>
Strengthening LID Knowledge and Skills	<p>Includes providing technical, policy, and regulatory consultation services and resources to stormwater stakeholders</p>	<p>●</p>	<p>●</p>	<p>○</p>

● Good ○ Fair ○ Poor

Joint Effort

Due to the delay in funding, the effort to develop methodology for numeric hydromodification control criteria was initiated approximately ten months later than originally anticipated. This resulted in an extension to the original schedule. The scope development is complete and the consultant initiated work on October 1, 2010. The nature of this work (i.e., addressing hydromodification control from a watershed perspective) is somewhat new in the realm of stormwater management. The background and experience of the consultant team provides a high degree of certainty that their efforts will result in value for the Central Coast in the realm of water quality protection.

Applicability Thresholds

The original 2009-2010 scope indicated one deliverable for this task item, which was a Powerpoint presentation outlining the components required to develop applicability thresholds (i.e. new or redevelopment project triggers where stormwater control would be required). The Powerpoint was presented to Water Board staff but not provided to the municipalities due to a change in scope direction. The new scope involves the LID Initiative guiding a team of representative municipal and Water Board staff (aka the R3 Stormwater Group) to function as problem-solvers and develop applicability threshold recommendations. To date, the team has progressed well and products include an applicability threshold scenario matrix, which documents the technical and implementation context surrounding applicability thresholds. In 4th Qtr., 2010 the team will develop proposed numeric applicability thresholds, which can then be recommended to the municipal and Water Board stakeholders.

LID Design Training

Focused LID design training for municipal staff was initiated in July, 2010 and will continue through 1st Qtr., 2010. There were approximately nine municipal trainings conducted during this reporting cycle. The original scope did not include individual trainings for municipalities. However, it was observed that municipal staff, particularly those involved with project application, review, and approval did not have sufficient understanding of LID principles and training was needed to improve their work with project applicants. To improve attendance, the LID design training is being provided and conducted at their city or county offices. When possible, the training includes the use of local projects to illustrate how the design principles can be applied. The training also includes a discussion of the LID Best Management Practice required as part of the Joint Effort and how participating MS4s can meet that requirement. Advance preparation, which includes a request that at least one individual in the training has the authority/ability to initiate next steps, has been a key part of the success of the training.

Green Parking Lot Technical Assistance Memo (TAM)

The Green Parking Lot TAM was 80% complete by the end of this reporting cycle. The draft TAM includes design options and guidance for the creation of a LID parking lot and can be utilized throughout the region. The work is being conducted by a sub-consultant who was originally contracted through the LID Center, Inc. The

need to negotiate a new subcontract created a delay in the project, which up until February, 2010 had been on schedule. There was also a slight increase in budget due to restarting the work and further TAM revisions not originally budgeted. The work will be completed by 4th Qtr., 2010 and in addition to the product being available to all Central Coast MS4s, will include a web-based presentation on the design of green parking lots. The presentation format is still to be determined. However, all LID stakeholders will be able to participate in the presentation and the material will be posted on an appropriate website for continued access.

Bioretention Vegetative Guidance

This work is part of the same sub-consultant contract as the Green Parking Lot TAM and as such, has been delayed. Since work had not been fully initiated, there are no lost costs due to contract changes. The effort includes the development of vegetation guidance for bioretention systems such as rain gardens and swales. Unlike other vegetative LID guides or plant lists, this effort will indicate very specific and minimalist plantings that have a high likelihood of survival and require little to no maintenance once established. Work completed by the end of this reporting cycle included a draft plant palette. The work will be completed by 2nd Qtr., 2011 as part of the subsequent LID Initiative work plan.

Municipal Code Updates

The original scope of work called for the LID Center, Inc. to develop and provide training sessions related to the local regulatory updates an MS4 would need to conduct to comply with hydromodification and LID requirements. The draft presentation provided by the LID Center, Inc. was not satisfactory and was halted as part of the LID Center Inc. contract termination. Approximately \$7,000 was expended that may or may not be useful for the continued effort. A new contract was established in September, 2010 with AHBL, Inc., a consulting firm that has provided Phase II code update support to over 35 municipalities. AHBL, Inc. will provide municipal update trainings as part of a web-based training series to the Central Coast MS4s. While this task did not meet the original work plan schedule, delays to the Joint Effort, of which this task is part, has put the training back on schedule.

City of Paso Robles Green Street and Regional Green Street Guidance

The development of a LID, or Green Street, concept and preliminary engineering design for the City of Paso Robles was initiated in April, 2010. Work completed as part of this reporting cycle included 2 draft designs completed after workshops with LID Initiative, community, city, and Water Board stakeholders. This work, as part of the 2009-2010 LID Initiative work plan has been on scope, schedule and budget. The work will continue into the 2010-2011 LID Initiative work plan.

Watershed-level Support (i.e., Alternative Compliance and Basin Plan assistance)

Little work has been accomplished by the LID Initiative in regards to supporting the Water Board's Basin Plan update process. Hours/effort is on an "as needed" basis and is anticipated to increase as part of the 2010-2011 LID Initiative work plan. The work to develop Alternative Compliance options (i.e., off-site options to meet post-construction stormwater control requirements) has also been substantially

delayed to the 2010-2011 work plan. An alternative compliance background paper is scheduled to be completed in partnership with California State University Monterey.

The LID Initiative Consultation Services

There is difficulty in quantifying performance related to this task item as it represents a limited, yet on-going service to Central Coast stormwater stakeholders. The requests for consultation have not exceeded budgeted hours. Consultation is prioritized for municipalities but includes developers and other stormwater stakeholders (e.g., Homebuilder's Association). Consultation has also included assistance to the Water Board. The typical requests involve technical questions related to project design, materials, and resources. Since the LID effort was initiated in 2008, there has been an increased awareness of the LID Initiative as a resource, which can partially be measured by the number of new and repeat individuals or agencies contacting the LID Initiative.

Consultation services also included support to the cities of Atascadero and Paso Robles in the development of Urban Greening Grant proposals solicited by the Strategic Growth Council. Grant proposals included funding for design and construction of the City of Paso Robles's 21st Green Street and the City of Atascadero's Zoo Green Parking Lot. Both projects passed the first round of elimination (\$150 million in proposals narrowed to \$24 million in remaining proposals). Both projects are being considered as state-wide finalists. The Strategic Growth Council review panel recently visited the project sites and communicated to Dr. Darla Inglis (LID Initiative) that the continued expertise and services that would be offered by the LID Initiative to each project was regarded as a significant factor in the assessment of the project. Final selections will be announced in late November, 2010.

Lastly, LID and hydromodification support have, and continue to be, provided to State Board Stormwater staff in the development of the Phase II Stormwater NPDES permit. The result has been increased coordination between the Water Board (Region 3) and State Board on similar issues related to watershed protection and water quality. The ability of State Board staff to access the LID Initiative for subject area expertise has improved the approach, communication, and drafting of regulatory language related to LID, water quality monitoring, and post-construction requirements.

3. Program Operation and Management

The LID Initiative operates from funds in the LID account created by the Water Board and managed by the Bay Foundation. Account history including contracted services, Bay Foundation costs, and other income and expenses can be found in Attachment A.

In January, 2010 the Water Board made the decision to terminate their service contract with the LID Center, Inc. The Central Coast effort is now referred to as the Low Impact Initiative (LID Initiative) and is being implemented through the

University of California Davis Extension, Land Use and Natural Resources. Two contracts were developed between the Bay Foundation and the UC Davis Extension to continue the Water Board's LID Initiative work plan implementation. The first UC Davis contract covered the period February, 2010 to July, 2010 and the second, current contract covers the time period July 1, 2010 through September 30, 2011. The transfer of the work plan from the LID Center to UC Davis initially created some task and budget tracking complications due to scope of work overlap. Additionally, there are separate consultant contracts to provide support services needed to execute the LID Initiative work plan. The program tracking has been resolved and scope, schedule, and budget are reviewed twice monthly during meetings between the LID Initiative staff representative (Dr. Darla Inglis) and Water Board staff (Dominic Roques).

The primary LID Initiative support is provided by Dr. Darla Inglis. Dr. Inglis works 80% of her time on the LID Initiative work plan, which is funded through the LID Account. The remaining 20% of her time is under the direction of UC Davis, supporting state and national stakeholders, and the work is similar in nature to the Central Coast effort (e.g., LID, hydromodification, watershed sustainability). This 80/20 split provides benefits to both the Central Coast and other state-wide stormwater stakeholders by leveraging information used to develop and implement LID and hydromodification controls.

During the 2009-2010 reporting cycle, two income additions to the LID account are worth noting. In 2010, the Water Board deposited \$200,000 in Supplemental Environmental Project (SEP) funds into the LID account. Additionally, the City of Paso Robles deposited \$42,000 into the LID account, which represents payment for a violation at their wastewater treatment plant. The City of Paso Robles's SEP money will be used to develop a green (LID) retrofit design for one of the City of Paso Robles's downtown streets (21st Street).

4. Projected LID Initiative opportunities and challenges

The LID Initiative continues to gain momentum and establish itself as a key LID and stormwater management resource on the Central Coast. Over the next three years, the Joint Effort will constitute the majority of effort by the LID Initiative as the MS4 community moves toward increased regulation in the areas of LID and hydromodification control. The continual evolution of stormwater management influences new actions and regulations to better protect water quality. Adaptive management on the part of counties and cities to update their stormwater management programs will be needed and will pose various technical, policy, and local regulatory challenges. The LID Initiative can provide assistance to municipalities to further their stormwater management efforts and in so doing, progress toward sustainable and healthy watersheds.

Attachment A	<u>LID PRINCIPLE (no)</u>	<u>LID OPERATING FUND (no)</u>	<u>TOTAL</u>
Income			
4036 · LID \$ Transfer to BF	2,000,000.09	351,775.00	2,351,775.09
4037 · Trans fr End. to Oper fnd	-100,000.00	100,000.00	0.00
4050 · SEP FUNDS			
4055 · LID SEP-Greka Funds	200,000.00	0.00	200,000.00
4056 · LID SEP Paso 21st Street	42,000.00	0.00	42,000.00
Total 4050 · SEP FUNDS	242,000.00	0.00	242,000.00
4100 · INVESTMENT INCOME	194,025.83	1,987.06	196,012.89
4101 · GAINS(LOSSES) ON INVESTMENTS	269,673.08	0.46	269,673.54
4200 · INTEREST INCOME	0.00	0.89	0.89
Total Income	2,605,699.00	453,763.41	3,059,462.41
Expense			
6450 · INVESTMENT MANAGEMENT FEES	19,610.37	0.00	19,610.37
6700 · PAYROLL EXPENSE			
6701 · SALARIES & WAGES	0.00	2,909.25	2,909.25
6702 · PAYROLL TAXES	0.00	224.83	224.83
Total 6700 · PAYROLL EXPENSE	0.00	3,134.08	3,134.08
6710 · PERSONNEL BENEFITS			
6712 · RETIREMENT BENEFITS	0.00	30.45	30.45
Total 6710 · PERSONNEL BENEFITS	0.00	30.45	30.45
6720 · POSTAGE	0.00	29.78	29.78
6730 · PRINTING & PHOTOCOPYING	0.00	127.12	127.12
6750 · PROFESSIONAL SERVICES			
6757 · LID Professional Services	0.00	371,500.47	371,500.47
6758 · LID UC Davis Services	0.00	79,121.00	79,121.00
6759 · LID Paso 21st St.	0.00	31,966.28	31,966.28
Total 6750 · PROFESSIONAL SERVICES	0.00	482,587.75	482,587.75
Total Expense	19,610.37	485,909.18	505,519.55
Net Income	<u>2,586,088.63</u>	<u>-32,145.77</u>	<u>2,553,942.86</u>

Central Coast Low Impact Development Center**Annual Work Plan
August 2009 through September 2010**Overview

The purpose of the Central Coast Low Impact Development Center (CCLID) Center is to provide services to local agencies in planning and implementing low impact development projects. The CCLID Center is consistent with Central Coast Regional Water Quality Control Board's (Water Board's) vision of healthy watersheds by supporting the implementation of LID design principles, hydromodification controls, and sustainable development throughout the Central Coast Region. The 2009-2010 work plan builds upon the progress achieved during the 2008-2009 contract term while adapting program elements to reflect lessons learned and emerging issues during the previous year. The work plan is intended to be flexible and may be revised periodically during the year as agreed to by the CCLID Center and the Water Board Executive Officer or his designee.

Background

The Water Board established a Low Impact Development Endowment Fund (LID Fund) with the Bay Foundation of Morro Bay (under separate agreement) to fund the services described here. The LID Fund is to be used to provide support for the CCLID Center, a branch office of the Low Impact Development Center, Inc. of Beltsville, Maryland. The Water Board Executive Officer and the CCLID Center may also contract with other organizations or consultants to provide LID services under this agreement.

This work plan focuses on the technical aspects that will assist in the planning, design, implementation, and long-term function of LID projects and sustainable development on multiple scales. This process includes site specific project designs, and large scale, long-term community level planning, including infrastructure, to protect healthy watersheds.

Understanding that there exists a spectrum of LID expertise and understanding in the region, the CCLID Center will strive to actively engage key stakeholders in projects and programs that will facilitate their understanding and implementation of LID principles and technologies. The definition of performance measures for each work plan item will be crucial in selecting work plan actions, evaluating and communicating success, and managing program expectations. Clear definition of CCLID Center task items and performance expectations will increase the probability of successfully implementing LID principles and technologies in the Central Coast Region. Performance measures will be developed iteratively with the work plan.

2009-2010 CCLID Center Work Plan Issues

Several issues that impacted the 2008-2009 work plan will continue to influence the priorities and types of services provided by the CCLID Center. These issues include:

- The national and state fiscal crisis:
 - The availability of state grant funding for LID projects was severely limited due to budget cuts. The 2008-2009 CCLID Center work plan had prioritized efforts to assist municipalities in proposing and obtaining grant funding (e.g., Clean Beach Initiative, Proposition 84). Grant solicitations have been delayed and are an unlikely funding source.

- Green infrastructure dollars, through the American Recovery and Reinvestment Act (i.e., stimulus dollars), were seen as a hopeful funding source. However, very little of the stimulus money was allocated to stormwater management in the first round of funding.
 - Economic slowdown impacted new development and therefore there were fewer projects in which to promote LID principles and design. Ideally, the CCLID Center, upon opening their office, would have been able to work closely with active development projects to integrate LID principles. CCLID Center support for new and redevelopment will continue to be a priority.
 - Limited resources will necessitate increased collaboration among groups that had previously competed for funds. . The CCLID Center will seek to partner with other agencies and organizations to more strategically apply for LID funding.
- Much of the focus for MS4s enrolled or enrolling in the State Water Resources Control Board (State Water Board) Phase II Stormwater NPDES Permit is on compliance with Permit conditions especially those conditions related to the development and implementation of hydromodification control criteria. Hydromodification management will continue to be a priority for the MS4 community for the next several years.
 - In 2008-09, the CCLID Center worked to increase coordination with stormwater staff at the State Water Board especially related to the development of the statewide Phase II Stormwater NPDES Permit. Benefits of this coordination are significant for the Central Coast and should continue to be a priority for the CCLID Center.
 - The spectrum of understanding related to LID in the Central Coast requires that the work plan continues to provide basic LID information while also providing more sophisticated services and products to the region.
 - The “rubber meets the road” issue of hydromodification/LID implementation at a site scale where the costs of complying with the maximum extent practicable (MEP) standard required by the federal Clean Water Act will continue to be a challenge in bringing LID to mainstream development.
 - While the CCLID Center was established to primarily assist MS4s, the reality is that private environmental consulting firms are conducting the bulk of design work. Most local firms have not reached the level of expertise to optimize LID site design and best management practices (BMPs). One work plan issue is to what degree should the CCLID Center be mentoring and assisting for-profit firms?
 - There is increasing awareness that the social and economic drivers in a watershed significantly impact the ability to achieve healthy watershed objectives. The continued degradation of watersheds will necessitate a more comprehensive approach to watershed management. The role of LID in achieving viable, sustainable watersheds should be evaluated in context of the CCLID Center work plan.
 - Water supply and climate change issues will continue to be a priority for the public, elected officials and various government agencies. Increased efforts (and funding) directed toward these topics will necessitate that LID be promoted as a means to achieve multiple community, environmental, and economic benefits beyond stormwater management.
 - Basin/Watershed Planning will be an integral part of how municipalities determine the most effective way to meet water quality standards. For example,

analysis of the challenges and benefits achieved through hydromodification control for new and redevelopment can be evaluated in context of other hydromodification control options such as retrofitting.

The 2009-10 CCLID Work Plan Strategy

The following table outlines the types of services provided by the CCLID Center for 2009-10. The intent of the work plan is to address a key LID need at each scale of potential application including parcel, infrastructure, watershed, and State. In all aspects, the CCLID Center will strive to utilize existing LID resources, facilitate coordination amongst municipalities, and where appropriate, incorporate related state/federal environmental initiatives and policies (e.g., climate change). Basic LID technical outreach and education will continue to be an important service offered by the CCLID Center though the work plan focus in 2009-10 will be placed on efforts that are intended to move municipalities from a basic level of understanding regarding LID to actual programmatic implementation. Lastly, in the interest of expanding the type and quality of LID services available within the Central Coast, the LID Center will facilitate, as appropriate, the opportunity for the consultant community to provide LID support to the Central Coast MS4s.

Starting with tasks that provide LID support at the project scale (e.g., new and redevelopment), and expanding to include LID at the basin and statewide scale, the 2009-10 CCLID Center Work Plan takes a “building block” approach in order to promote, coordinate, and integrate LID throughout the urban environment.

Central Coast Low Impact Development Center 2009-2010 Work Plan Summary Table

Task	Description	Deliverable(s)
1. Administration, Work plan, and Performance Percent of Effort = 19		
1.1 CCLID Center Annual Work Plan	The CCLID Center Work Plan outlines the services to be provided to Central Coast stormwater quality stakeholders with a focus on NPDES regulated communities.	<ul style="list-style-type: none"> • Adjustments to the CCLID Center 2009-10 work plan. • The CCLID Center 2010-11 work plan. • Annual report and requested updates (e.g., Board).
1.2 Work Plan and Performance Measures	Development of performance measures to assess effectiveness of the CCLID Center in assisting the Central Coast in the implementation of LID principles and techniques.	<ul style="list-style-type: none"> • Performance measure(s) for each work plan task item 5-x below. • Performance Evaluation
1.3 Program Administration	This task covers the administrative and operating costs of the CCLID Center. Included are labor associated with accounting; information technology tasks such as computer software maintenance, trouble shooting, system upgrades; and general administration.	<ul style="list-style-type: none"> • Functioning CCLID Center
1.4 CCLID Funding Support	The initial role of the CCLID Center is to provide technical, regulatory and policy support related to the development and implementation LID on the Central Coast. The longer term role of the Center in the Central Coast necessitates discussions related to funding, types of services provided by the Center, and the role of the Center related to the Water Board, municipalities, and non-government organizations.	<ul style="list-style-type: none"> • 2 meetings between the LID Center and Water Board to discuss and develop a coordinated strategy for the CCLID Center. • 1 document containing initial 5-year vision and implementation strategies. Also to include identified opportunities and challenges.

<ul style="list-style-type: none"> • Funding proposal(s), meetings & presentations (e.g., grants, etc.). 	
<p>2. LID at the Parcel Scale (i.e., new and redevelopment) Percent of Effort = 41</p>	
<p>2.1 LID BMP Implementation</p>	<p>Assistance in providing resources and guidance for LID implementation that can be used prior to the development of numeric hydromodification control criteria.</p> <ul style="list-style-type: none"> • Provide sample LID ordinances that MS4s can incorporate into their local regulatory framework. • Green Parking Lot Client Assistance Memo (CAM). • Bioretention Vegetation Guidance. • LID Project Specific Technical Support • Demonstration Projects • Attempt to coordinate entities for pro bono LID demonstration projects. Potential projects include: <ul style="list-style-type: none"> a) LID parking lot (ICPI & City of Atascadero), b) bioswale retrofit (Native Son Nursery & San Luis Obispo County), and c) rainwater capture/reuse (Loomis & Sons, MS4 tbd).
<p>2.2 LID Technical Optimization for Project Sites</p>	<p>Development of guidance to assist project stakeholders in determining whether adequate effort was made to incorporate LID in the site design.</p> <ul style="list-style-type: none"> • LID Technical Optimization Guidance document • CASQA LID MEP workshop session
<p>2.3 Hydromodification Control</p>	<p>Assistance in the development and implementation of hydromodification control criteria. (see attached for detail)</p> <ul style="list-style-type: none"> • See CCLID Center contract Exhibit A for detail.

<p>3. LID at the Infrastructure Scale Percent of Effort = 20</p>	
<p>3.1 Green Streets</p>	<p>The Public Right-of-Way infrastructure network offers a significant opportunity within a watershed to address stormwater flow & quality. This work plan item focuses on creating design guidance for a “green street”.</p> <ul style="list-style-type: none"> • Green Street Design specifications and supporting documentation. City of Paso Robles to be initial green street design pilot city within the Central Coast • Provide outreach, templates, and “how to” for other Central Coast MS4s (during and after Paso Robles process).
<p>4. LID at the Basin/Watershed Scale Percent of Effort = 2</p>	
<p>4.1 Basin Planning</p>	<p>The integration and strategic application of LID at a watershed or basin scale involves an evaluation of opportunities and constraints to LID. This task will involve the first steps to integrate LID in broader basin and watershed planning processes and directives.</p> <ul style="list-style-type: none"> • Participation in the Central Coast Basin Plan update process.
<p>5. Coordinating LID at the Statewide Scale Percent of Effort = 5</p>	
<p>5.1 Phase I Hydromodification Control Regulations</p>	<p>For consistency purposes, the upcoming Statewide Phase II SW NPDES permit will require coordination between State and Regional Board efforts in how LID is incorporated into permit requirements.</p> <ul style="list-style-type: none"> • Development of recommendations related to the hydromodification and LID portions of the draft statewide Phase II Stormwater NPDES permit. • Participation in the Hydromodification/LID Statewide TAC and the Regional Board Joint Hydromodification Effort (2 meetings including travel expenses).

<p>6. LID “Improving the Knowledge” Percent of Effort = 13</p>	<p>6.1 LID Consultation</p> <p>Continue consulting to key LID stakeholders (e.g., developers, local planning agencies, and elected officials) to introduce and provide needed education related to the concepts and principles of LID. It is anticipated that the 2009-2010 (vs. 2008-09) efforts will focus less on basic LID training and more on specific consultations to improve the success of Central Coast LID projects and programs. Consultation services include, but are not necessarily limited to, review of project design specifications; project planning; integration of LID into new and redevelopment projects; support in development of “Request for Proposal” documents; assistance to regional LID technical teams; and review of technical documents.</p>	<ul style="list-style-type: none"> • Consultation to select government, elected officials, non-profit organizations, homebuilders associations, etc.
<p>6.2 Virtual LID Center</p>	<p>The Virtual LID Center is a partnership with the California Stormwater Quality Association (CASQA) and will provide products developed in other parts of this contract as well as selected priority items (e.g., LID FAQ).</p>	<ul style="list-style-type: none"> • Build site with CASQA • Populate site with 1) LID FAQ, 2) LID/Hydromodification control for Municipal NPDES Programs, 3) Model LID ordinances, 4) Green Street template, 5) Vegetation guidance for bioretention systems, 6) Green Parking Lot client assistance memo, and 7) “In the News” – selected news and information from the broader LID world.

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