



DATE: September 4, 2013  
TO: Honorable Mayor and City Councilmembers  
FROM: Water Utilities Department  
SUBJECT: **APPROVAL OF A THREE-YEAR COST SHARE AGREEMENT IN THE AMOUNT OF \$142,580 WITH THE COUNTY OF SAN DIEGO FOR DEVELOPMENT OF THE WATER QUALITY IMPROVEMENT PLAN**

**SYNOPSIS**

Staff and the Utilities Commission recommend that the City Council approve a three-year cost-share agreement in an amount not to exceed \$142,580 with the County of San Diego for the development of the Water Quality Improvement Plan and implementation of the Total Maximum Daily Load Compliance Monitoring for the San Luis Rey River Watershed Management Area; and authorize the City Manager to execute the agreement.

**BACKGROUND**

The San Diego Regional Water Quality Control Board issued a new five-year Municipal Stormwater Permit on May 8, 2013, to prohibit non-stormwater discharges and polluted stormwater from entering the storm drain system. The permit regulates discharges to inland surface waters, bays and estuaries and coastal waters throughout the three counties within the San Diego Region. The City of Oceanside is one of 39 entities subject to the new permit.

The permit requires the development and submission of a Water Quality Improvement Plan as well as compliance monitoring to be conducted where runoff drains to beaches. The City of Oceanside is required to comply with both of these regulatory requirements.

A consortium of Copermitees with common interests in the San Luis Rey Watershed have determined that it is in their best interest to work collaboratively on the development of the Water Quality Improvement Plan. This collaboration results in cost sharing and economies of scale with hiring a consultant to develop the Plan and in compliance monitoring. Fortunately, the County of San Diego has also agreed to lead the effort by providing project management and contract administration services for the San Luis Rey Watershed. In exchange for these services, the County of San Diego will receive an amount equal to 5 percent of the total contract cost.

## **ANALYSIS**

### ***Water Quality Improvement Plan (WQIP) Development***

The goal of the WQIP is to further the Clean Water Act's objective to protect, preserve, enhance, and restore the water quality and designated beneficial uses of waters of the state. This goal will be accomplished through an adaptive planning and management process that identifies the highest priority water quality conditions within a Watershed Management Area. Strategies will be implemented through the jurisdictional runoff management program to achieve improvements in the quality of discharges from the storm drain systems to receiving waters.

Permittees must implement mechanisms to effectively prohibit non-storm water discharges into storm drain systems and require controls to reduce the discharge of pollutants in storm water to the maximum extent practicable. The Permit also requires other provisions to control pollutants such as Total Maximum Daily Loads (TMDLs) mandates. The newly issued Permit prescribes conditions to assure compliance, the prohibition of non-storm water discharges into storm drain systems, and control implementation to reduce the discharge of pollutants from the storm drain systems to the maximum extent practicable.

### ***Total Maximum Daily Load (TMDL) Compliance Monitoring***

The new permit contains provisions to implement a Total Maximum Daily Load (TMDL) compliance monitoring program for indicator bacteria at the San Luis Rey (SLR) River Pacific Ocean shoreline. The purpose of the TMDL program is to reduce bacteria levels to protect the health of those who recreate at beaches receiving runoff from the SLR watershed by reducing the amount of bacteria discharged to the beach through urban runoff, stormwater and other sources. The monitoring plan outlines monitoring activities that will be used to determine compliance with the TMDL, as well as to determine the effectiveness of programs and activities designed to reduce bacteria levels. Copermittees will share the costs of sampling and analysis. The monitoring location for the SLR River is at the shoreline, 75 feet south of the river mouth.

## **FISCAL IMPACT**

A cost estimate has been prepared for the development of the SLR River Water Quality Improvement Plan and the TMDL compliance monitoring. The cost-share formula that has been in place since the previous permit has been agreed upon by the Copermittees:

- 45% shared costs based on population
- 45% of shared costs based on urbanized land area
- 10% of costs divided equally

Based on the formula above and the costs proposed by the Consultant, the table below provides the costs for each Copermittee, spread across three fiscal years.

<b>Copermittee</b>	<b>Cost-Share FY 13-14</b>	<b>Cost-Share FY 14-15</b>	<b>Cost-Share FY 15-16</b>	<b>Cost-Share Total</b>
<i>City of Oceanside</i>	\$70,659	\$50,765	\$21,156	\$142,580
S.D. County	\$156,291	\$112,287	\$46,795	\$315,373
City of Vista	\$10,538	\$7,571	\$3,155	\$21,264
CalTrans	\$12,499	\$8,980	\$3,742	\$25,221
<b>TOTALS:</b>	<b>\$249,987</b>	<b>\$179,603</b>	<b>\$74,848</b>	<b>\$504,438</b>

The City's portion of the cost-share will be funded by the Clean Water Program budget (750762711.5326). There is currently \$135,000 budgeted so sufficient budget exists to cover the expense for FY13-14, and additional years will be addressed in the appropriate year's budget process.

**COMMISSION OR COMMITTEE REPORT**

The Utilities Commission will review staff's recommendation at its regularly scheduled meeting on September 17, 2013.

**CITY ATTORNEY'S ANALYSIS**

The referenced documents have been reviewed by the City Attorney and approved as to form.

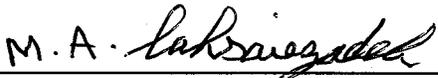
**INSURANCE REQUIREMENTS**

The City's standard insurance requirements will be met.

**RECOMMENDATION:**

Staff and the Utilities Commission recommend that the City Council approve a three-year cost-share agreement in an amount not to exceed \$142,580 with the County of San Diego for the development of the Water Quality Improvement Plan and implementation of the Total Maximum Daily Load Compliance Monitoring for the San Luis Rey River Watershed Management Area; and authorize the City Manager to execute the agreement.

PREPARED BY:

  
\_\_\_\_\_  
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Environmental Officer

SUBMITTED BY:

  
\_\_\_\_\_  
Peter A. Weiss  
City Manager

REVIEWED BY:

Michelle Skaggs Lawrence, Deputy City Manager

Cari Dale, Water Utilities Director

Michael Blazenski, Interim Finance Director

  
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# Agreement to Share Cost of Carlsbad Watershed Management Area Water Quality Improvement Plan (WQIP) Development FY 2013-14

## RECITALS

Whereas, the CWMA Copermittees include the following: City of Carlsbad, City of Encinitas, City of Escondido, City of Oceanside, City of San Marcos, City of Solana Beach, City of Vista, and County of San Diego; and

Whereas, Copermittees within the Carlsbad Watershed Management Area (CWMA) are required to cooperate in the development and implementation of a Water Quality Improvement Plan (WQIP) pursuant to California Regional Water Quality Control Board, San Diego Region Order R9-2013-0001 (NPDES Permit No. CAS0109266), Section B; and

Whereas, the City of Carlsbad has agreed to serve as the CWMA Principal Watershed Copermittee for the duration of this Cost Share Agreement and fulfill the responsibilities required in Section G.2. of Order R9-2013-0001; and

Whereas, as part of its responsibilities as Principal Watershed Copermittee, the City of Carlsbad shall enter into a contract with a consultant and will be the only Copermittee subject to the terms and conditions of the contract as executed; and

Whereas, the CWMA Copermittees have agreed to share the costs of WQIP development during FY 2013-14 in accordance with the Proposal and Scope of Work from Mikhail Ogawa Engineering attached and shown in Exhibit A.

## AGREEMENT

Now, therefore, the CWMA Copermittees agree to share the costs for the WQIP Development and Implementation contract per the table below. Total management costs for FY 2013-14 are estimated to be \$200,000. As the Principal Watershed Copermittee, City of Carlsbad will collect an additional non-refundable administrative fee from each CWMA Copermittee equal to 5% of the total contract costs. The total agreed-upon cost, including the 5% administrative fee, is \$210,000, to be invoiced at the beginning of the contract period. Each Copermittee agrees to submit payment to the City of Carlsbad within sixty days (60) of the date of invoice.

City of Carlsbad	\$	32,600.00
City of Encinitas	\$	18,439.43
City of Escondido	\$	29,248.75
City of Oceanside	\$	29,460.69
San Diego County	\$	46,204.54
City of San Marcos	\$	23,950.06
City of Solana Beach	\$	847.79
City of Vista	\$	29,248.75
<b>Total Cost Share</b>	<b>\$</b>	<b>210,000</b>

The cost share is based on the regional 45/45/10 formula.

In the event of unused funds remaining at the conclusion of FY 2013-14, each CMWA Copermittee will receive either a proportional refund or a proportional credit that only may be

## **Agreement to Share Cost of Carlsbad Watershed Management Area Water Quality Improvement Plan (WQIP) Development FY 2013-14**

applied to FY 2014-15 cost-share amounts. Any refunds due will be issued within ninety (90) days after completion of contracted services or December 31, 2014, whichever is sooner.

The initial period of the WQIP Development and Implementation contract will be one (1) year commencing upon final execution of the contract with option to amend the contract to extend it for up to four (4) additional one-year periods as per City of Carlsbad contracting practices for a total term of five (5) years for a total not to exceed cost of \$539,240 over the five (5) year term.

This cost share agreement is subject to annual renewal by each CWMA Copermittee. Should any CWMA Copermittee not renew the cost share agreement, the contract Scope of Work, contract costs and cost-share amounts shall be adjusted as appropriate for the affected contract period. Fiscal Year cost share amounts are estimated below

Phase	Year	Fiscal Year	Estimated Contract Cost	Estimated Cost Share Amount (including 5% admin fee)
1	1	2013-14	\$200,000	\$210,000.00
	2	2014-15	\$105,789	\$111,078.45
2	3	2015-16	\$77,817	\$81,707.85
	4	2016-17	\$77,817	\$81,707.85
	5	2017-18	\$77,817	\$81,707.85
<b>TOTAL NOT-TO-EXCEED</b>			<b>\$539,240</b>	<b>\$566,202</b>

Each CWMA Copermittee agrees to participate in meetings with Consultant and other Copermittees for the development and refinement of elements of the WQIP; and otherwise participate in the development of the WQIP in the manner described in the Scope of Work.

Decisions shall be made based on a consensus of the CWMA Copermittees. In situations where consensus is not obtained, the Copermittees may vote on an item, with each Copermittee retaining equal representation in the vote. In order for a decision to move forward, a consensus or majority vote must be obtained. Where there is an equal distribution of votes in favor and opposed, discussion shall continue until a majority vote is obtained.

Employees and consultants of each CWMA Copermittee are not to be considered employees or consultants of any other CWMA Copermittee for any purpose whatsoever in the performance of this Agreement.

This Agreement to Share Cost of CWMA WQIP Development and Implementation for FY 2013-14 shall be effective and binding on all parties hereto commencing upon execution of the last party to date and sign the Agreement. This Agreement will be in effect from date of signing and will terminate on June 30, 2014 unless otherwise agreed upon in writing by amending this Agreement.

**Agreement to Share Cost of Carlsbad Watershed Management Area  
Water Quality Improvement Plan (WQIP) Development FY 2013-14**

For the City of Carlsbad

By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

**Agreement to Share Cost of Carlsbad Watershed Management Area  
Water Quality Improvement Plan (WQIP) Development FY 2013-14**

For the City of Encinitas

By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

**Agreement to Share Cost of Carlsbad Watershed Management Area  
Water Quality Improvement Plan (WQIP) Development FY 2013-14**

For the City of Escondido

By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

# Agreement to Share Cost of Carlsbad Watershed Management Area Water Quality Improvement Plan (WQIP) Development FY 2013-14

For the City of Oceanside

By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

APPROVED AS TO FORM OCEANSIDE CITY ATTORNEY 
BARBARA L. HAMILTON Assistant City Attorney

**Agreement to Share Cost of Carlsbad Watershed Management Area  
Water Quality Improvement Plan (WQIP) Development FY 2013-14**

For the City of San Marcos

By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

**Agreement to Share Cost of Carlsbad Watershed Management Area  
Water Quality Improvement Plan (WQIP) Development FY 2013-14**

For the City of Solana Beach

By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

**Agreement to Share Cost of Carlsbad Watershed Management Area  
Water Quality Improvement Plan (WQIP) Development FY 2013-14**

For the City of Vista

By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

**Agreement to Share Cost of Carlsbad Watershed Management Area  
Water Quality Improvement Plan (WQIP) Development FY 2013-14**

For the County of San Diego

By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

For the County of San Diego

By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

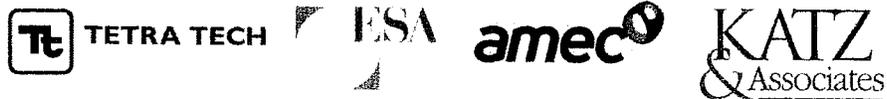
***Proposal to Provide Professional Services for  
Carlsbad Watershed Management Area Program***



Prepared by:  
Mikhail Ogawa Engineering  
3525 Del Mar Heights Road #429  
San Diego, California 92130



in conjunction with:  
Tetra Tech | ESA | AMEC | Katz & Associates



Respectfully Submitted on:  
June 6<sup>th</sup>, 2013

Mikhail Ogawa, Principal Engineer  
mikhail@mogawaeng.com

## 1 Proposed Method to Accomplish the Work

The general approach to the WQIP development process will be to:

- Collect data and information about the waterbodies in the CWMA beyond what the Team already has available; develop initial priority water quality conditions for them; develop initial goals; potential strategies to address the conditions for each of the waterbody tributary areas (initially in a matrix format); and develop initial schedules associated with the strategies to achieve the goals.
- Once the initial conditions, goals, strategies (jurisdictional and watershed) and schedules are established, the Team will work with CWMA Copermittees to evaluate and prioritize the options (because we "can't do everything everywhere") to determine which will be further analyzed to finalize the WQIP process.
- The technical approach below is intended to be conducted on geographical scales that make sense. Appropriate scales of analysis and presentation will be confirmed with the CWMA Copermittees and may be revised through the WQIP development process based on the outcomes of the analyses. Various scales may include the entire CWMA, Hydrologic Areas, Hydrologic Sub-Areas, or smaller tributary areas. The drivers behind the determination of scale are pollutant-waterbody combinations, sources and pollutant generating activities and ability to demonstrate progress towards goals established in the WQIP.
- Monitoring and Assessment programs will be developed to best demonstrate the progress towards achieving the established goals. These programs will also be designed to inform the CWMA Copermittees when strategies may be ineffective or need modifications.

The following sub-sections describe the technical approach the MOE Team proposes to use to perform the tasks as identified by the Carlsbad Watershed Management Area (CWMA) Copermittees. The task numbers are associated with the tasks as identified in RFP # 13-07. *In some cases, optional tasks have been removed at the request of the CWMA Copermittees.*

### PHASE 1

#### 1.1 RFP Task 1: WQIP Development

The approach to WQIP Development is described in the sub-sections below.

##### 1.1.1 WQIP Development Project Schedule and Meetings

The MOE Team will prepare a detailed project schedule to be reviewed and approved by the CWMA Copermittees. The general project milestones are identified in Figure 1 below. Details to be provided in the schedule will include, at a minimum: (1) project kickoff meeting; (2) formation of the Water Quality Improvement Consultation Panel (WQICP); (3) public workshops; (4) solicitation of data, information and recommendations; (5) meetings with CWMA Copermittees; (6) draft documents and analysis for review by CWMA Copermittees; (7) review periods; (8) meetings with and/or submittals to WQICP; (9) compliance submittal dates, and (10) anticipated time for revisions based on comments received from WQICP, RWQCB and public. Along with the project schedule, the Team will develop an annotated outline of the WQIP to assist in understanding of project tasks and deliverables.

In general, the MOE Team proposes that monthly CWMA Copermittee/MOE Team meetings are scheduled throughout the WQIP development process. In addition to the core scheduled monthly meetings, the Team proposes that an additional four meetings are budgeted for the potential need to hold additional meetings during more complex efforts of the development process, e.g., numeric goal setting. During the two-year development phase, this would be a total budget of 28 CWMA Copermittee meetings. These meetings are separate from the workshops and WQICP meetings identified in the Public Process task below.

### 1.1.2 Priority Water Quality Conditions & Potential Water Quality Improvement Strategies

#### Priority Water Quality Conditions

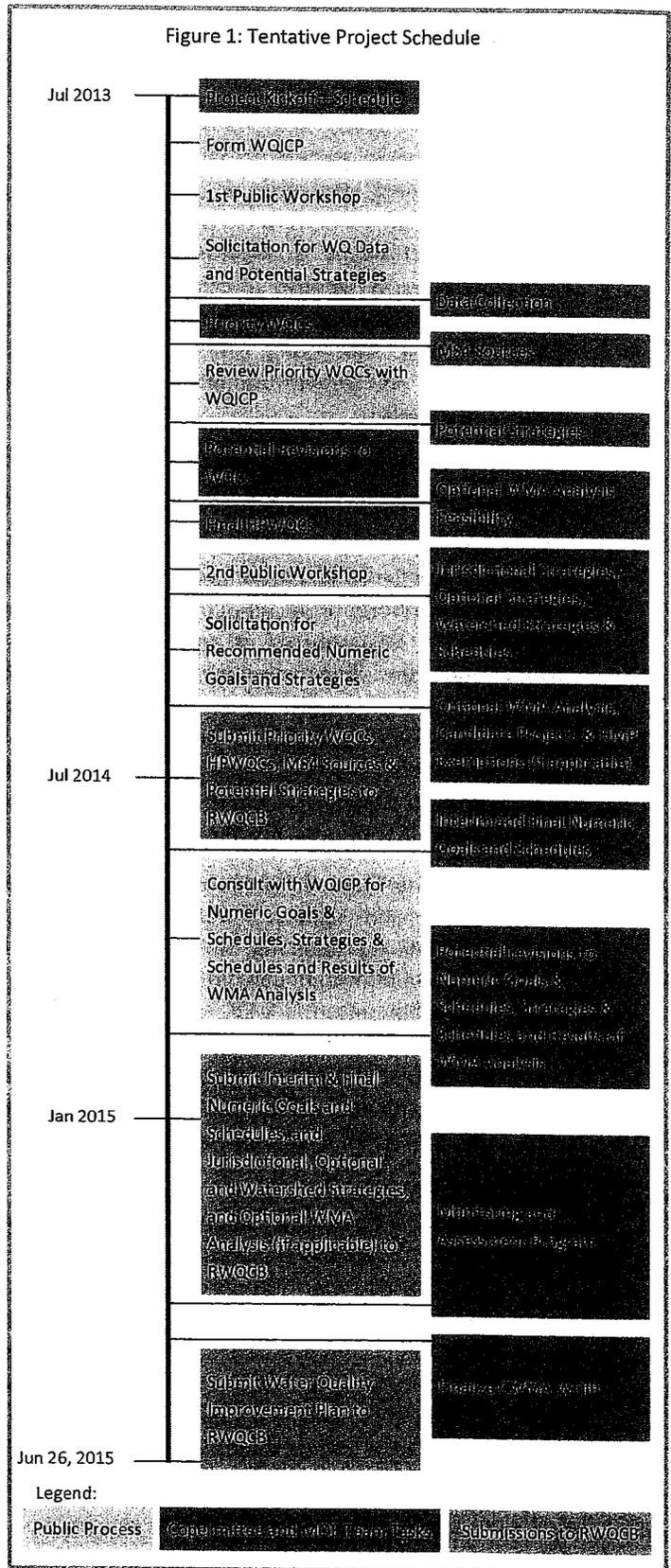
Using the existing documentation (with any recent updates, e.g., January 2013 Regional Monitoring Report) including: the LTEAs, 303(d) listings, TMDLs (existing and in development), Annual Regional Monitoring reports, available special studies in the CWMA, and jurisdictional data not already considered in the LTEA, the MOE team will assess the receiving water conditions and propose and submit a master list of priority water quality conditions (expressed as pollutants, stressors and/or receiving water conditions) on waterbody by waterbody basis for the entire CWMA. Additional data, to be assessed, that may not already be considered in the Regional Monitoring Report includes 3<sup>rd</sup> party data submitted as part of the data solicitation process, and special studies conducted by Copermittees or others.

MS4 outfall water quality data and locations (not already assessed in the Annual Regional Monitoring Report) will be collected and assessed to identify impacts from MS4 systems. The information considered, per Provision B.2.b. of the MS4 Permit, will help inform the priority water quality conditions, the selection of HPWQCs, identification of watershed areas for focus, as well as identification of potential sources and pollutant generating activities within the CWMA.

The Team will make appropriate revisions to the list of priority water quality conditions based on comments from the CWMA Copermittees.

#### MS4 Sources of Pollutants and/or Stressors

Using the master list of priority water quality conditions as the basis, the Team will use readily available information (2011 LTEA, 2012 Carlsbad WURMP Annual Report and CWMA Copermittee JURMP Annual Reports) to identify MS4 sources of pollutants and stressors. MOE has provided similar services for the past several years in developing the Carlsbad WURMP Annual Reports. Additional literature review related to pollutant sources will be conducted to confirm the findings in the 2012 Carlsbad WURMP Annual Report for specific pollutant generating sources, activities and land uses. Available relevant monitoring data will be used to further identify MS4 sources of pollutants and stressors within the CWMA.



The Team will present the MS4 sources of pollutants and stressors to the CWMA Copermittees for review and comment. Appropriate revisions will be made based on comments from the CWMA Copermittees.

#### *Potential Water Quality Improvement Strategies*

The comprehensive experience and background of the Team coupled with public input (from the solicitation process) regarding strategies to address water quality conditions will generate a master list of potential strategies to address the priority water quality conditions. The Team and CWMA Copermittees will evaluate the spectrum of strategies considering the priority water quality conditions, identified potential sources, and receiving waters to develop a listing of potential water quality improvement strategies to be submitted to the RWQCB for public review and comment. Some criteria that may be used to evaluate the strategies include: (1) effectiveness at addressing the sources/pollutants/activities/stressors causing the priority water quality conditions; (2) social/institutional impacts and benefits; (3) technical feasibility of implementation; and (4) financial feasibility.

The Team will present the potential strategies to the CWMA Copermittees for review and comment. Appropriate revisions will be made based on comments from the CWMA Copermittees.

#### *Selection of Highest Priority Water Quality Conditions*

The MOE Team believes that to identify the highest priority water quality conditions in the CWMA, the following has to be considered in developing supporting rationale: (1) receiving water conditions; (2) impacts from MS4 discharges; (3) MS4 sources of pollutants and/or stressors; and (4) strategies to address the priority water quality conditions. After completing the assessments and analysis required in Provision B.2., and consultation with the CWMA Copermittees, the MOE Team will develop a list of highest priority water quality conditions for the CWMA. This approach is inclusive of the processes required of the MS4 Permit that requires the identification of MS4 sources and potential strategies to address the HPWQCs. However, as stated, it would be short-sighted to develop a subset of the priority water quality conditions as HPWQCs prior to evaluating the MS4 sources and potential strategies for all of the priority water quality conditions.

**Deliverables:** The Team will prepare the following materials to be submitted to the RWQCB

1. Priority and Highest Priority Water Quality Conditions (HPWQCs) for the CWMA – accompanied with rationale for selecting the HPWQCs as a subset of the master list of priority water quality conditions identified through data/information collection and analysis.
2. Identified potential MS4 sources and pollutant generating activities that may be contributing to each of the HPWQCs
3. Identified Potential Water Quality Improvement Strategies that may be implemented either jurisdictionally or on a watershed/regional basis to address the HPWQCs in the CWMA. As required by the MS4 Permit, this deliverable will include all strategies provided by public or WQICP

**Process and Revisions:**

1. The MOE Team will prepare necessary materials to review the priority water quality conditions with the WQICP to receive recommendations or concurrence
2. The CWMA Copermittees will consider revisions based on WQICP comments/recommendations, if any
3. The MOE Team will make appropriate revisions, if any, to the materials prior to submittal to the RWQCB
4. Within 6-12 months, based on input from the CWMA Copermittees on schedule, the Team will prepare the materials identified above in the Deliverables section to turn in to the RWQCB
5. The RWQCB will issue public notice with a minimum 30 day review of CWMA submittal
6. The CWMA Copermittees will consider revising the materials based on public comments, if any
7. The MOE Team will make appropriate revisions, if any, to the materials

### 1.1.3 Water Quality Improvement Goals, Strategies and Schedules

The MOE team is made up of staff and firms that have extensive backgrounds in numeric goals, strategies and establishing schedules. The Team will use this experience (CLRPs, TMDLs, LTEAs, WURMPs, JURMPs, and Special Studies) and knowledge to assist the CWMA Copermittees in establishing interim and final numeric goals, jurisdictional and watershed water quality improvement strategies and implementation schedules.

Water quality improvement numeric goals and schedules, the strategies to achieve the goals and implementation schedules are interrelated and should not be developed independently of each other. The MOE Team proposes that a short iterative process will consider the interrelated elements before finalizing the goals, strategies and schedules required in Provision B.3. of the MS4 Permit. Considerations will include, at a minimum: final numeric goals, competing geographic water quality responsibilities for the CWMA Copermittees, strategies, schedules, and an evaluation of the sustainability<sup>1</sup> of the process outcomes. This iterative process will include the components described below.

#### *Water Quality Improvement Goals*

The MS4 Permit describes the standards for final numeric goals which are straightforward depending on the types of conditions to be addressed. The final numeric goal standards will be applied appropriately to the HPWQCs depending on whether the condition exists in the MS4 discharges, receiving waters or in terms of beneficial uses. From MOE's experience, examples of numeric goal types include: use of TMDL numeric targets; narrative forms; % reductions in pollutant loading and flow; and removal of conditions from 303(d) list. The Team will prepare and present these goals to the CWMA Copermittees for review.

The Team will work closely with the CWMA Copermittees when establishing the interim numeric goals – as the interim goals, along with schedules, will be the primary drivers for program implementation intensity, e.g., how much to implement, where to implement and when to implement. The Team will work with Copermittees to select interim goals that are based on measureable criteria or indicators that will demonstrate progress towards meeting final numeric goals. Our team recognizes the challenges the CWMA Copermittees will face in establishing/presenting a nexus between program implementation and measureable outcomes. Our team has vast experience and knowledge from special studies, rigorous analysis methods, and modeling to develop and present options to the CWMA Copermittees for demonstrating progress toward achievable goals. This will allow us to develop achievable goals that can be accomplished when considering Copermittees opportunities and constraints. This will be achieved by using a spreadsheet analysis of the watershed information and data where the HPWQCs are established and a preliminary review of water quality improvement strategies.

Schedules for achieving numeric goals will be established in response to the requirements of the MS4 Permit. TMDL interim and final compliance dates will be incorporated into the WQIP. Non-TMDL numeric goals will be established to reflect the "shortest practicable time" reasonably required – with some minor variation for final and interim goals. As previously stated, the Team recognizes the importance of this element of the WQIP and intends to use the iterative process discussed above with the Copermittees to develop realistic schedules for achieving the numeric goals. Considerations will include, at a minimum, time needed to implement new or expanded programs, time to secure financing and social/institutional support, and the current state of science in achieving improvements to the HPWQCs.

#### *Water Quality Improvement Strategies*

The Team has experience in the various types of strategies that will be included in the CWMA WQIP. The three broad categories of strategies include: regulatory; non-structural; and structural. The Team will use this

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<sup>1</sup> Sustainability for the purposes of this process is defined as the assessment of the environmental benefits, costs and social/institutional impacts. This is also known as "triple bottom line".

experience to identify the most appropriate strategies to be included in the WQIP to address the HPWQCs in the CWMA.

The MOE Team will work closely with individual jurisdictions to identify the jurisdictional specific strategies to be employed. This process will include consideration of the potential water quality improvement strategies, a review of JURMPs and JURMP Annual Reports (established under Order R9-2007-0001) to determine current programmatic implementation in both type and frequency. MOE conducted a similar exercise during the 2011 LTEA process in which all regional Copermittees JURMPs and JURMP Annual Reports were reviewed for determining programmatic implementation. The Team will generate a proposed strategies listing, with rationale for each HPWQC that the jurisdiction is tributary to, as a mechanism to facilitate the process of selecting jurisdictional specific strategies.

With our knowledge of the Copermittees existing programs and selected HPWQCs, numeric goals and schedules, the Team will assist the Copermittees with the recommendations for jurisdictional programmatic changes based on the CWMA WQIP elements. These recommendations, tailored for the specific CWMA issues in each jurisdiction, may be used in the development of individual Jurisdictional Runoff Management Programs (JRMPs). For the purposes of developing the CWMA WQIP, the Team will work with the jurisdictions to collect their final programmatic information (as required by Provision B.3.b.(1)(a) of the MS4 Permit) and incorporate into jurisdictional specific sections of the WQIP.

Similar to the process above, the Team will assist in the identification of optional jurisdictional strategies to be included in the WQIP. These optional strategies will be tailored to the specific issues in the CWMA and include descriptions of circumstances necessary to trigger their implementation. Likely considerations for triggering implementation of optional jurisdictional strategies will be availability of funding, and if program assessment identifies that jurisdictional strategies are not effective at making progress towards the established numeric goals.

The MOE Team believes that to identify the jurisdictional strategies and schedules to be included in the WQIP the majority of the work can be accomplished through: 1) email ; 2) telephone correspondence; and 3) during the monthly group meetings. To maintain efficiency we propose to meet separately with individual CWMA Copermittees only once to confirm strategies and use the other forms of correspondence to complete the efforts. The Team will prepare materials ahead of time and provide to the CWMA Copermittees prior to individual meetings to expedite Copermittees preparation for productive meetings.

Moving beyond jurisdictional strategies, the Team, using previous experience and knowledge obtained from the coordination with CWMA Copermittees, will identify where opportunities to implement optional strategies may be most appropriately shared in a multi-jurisdictional, WMA or regional setting. These will be brought to the attention of the CWMA Copermittees and confirmed prior to inclusion in the WQIP.

Strategies related to land development requirements, i.e., HMP standards and alternative compliance, are dependent on the Optional WMA Analysis and may be incorporated based upon regional and watershed efforts conducted.

Similar to the selection of schedules for numeric goals, the Team recognizes that establishing schedules for implementation of strategies is interrelated to the numeric goals and strategies themselves. The established schedules will adhere to the requirements of Provision B.3.b.(3) . As previously stated, the Team recognizes the importance of this element of the WQIP and intends to use the iterative process discussed above with the Copermittees to develop realistic schedules for implementation of strategies. Considerations will include, at a minimum, time needed to implement new or expanded programs, time to secure financing and social/institutional support, and the current state of science in achieving improvements to the HPWQCs.

**Deliverables:**

1. Interim and final numeric goals
2. Schedules for achieving numeric goals
3. Jurisdictional strategies and schedules
4. Optional jurisdictional strategies
5. CWMA strategies and schedules
6. Optional WMA Analysis (if applicable)
  - a. Analysis
  - b. Candidate projects
  - c. HMP exemptions

**Process and Revisions:**

1. The MOE Team will prepare necessary materials to consult with the WQICP to receive recommendations on the numeric goals and schedules, water quality improvement strategies and schedules, and CWMA Analysis and outcomes
2. The CWMA Copermittees will consider revisions based on WQICP comments/recommendations, if any
3. The MOE Team will make appropriate revisions, if any, to the materials prior to submittal to the RWQCB
4. Within 9-18 months, based on input from the CWMA Copermittees on schedule, the Team will prepare the materials identified above in the Deliverables section to turn in to the RWQCB
5. The RWQCB will issue public notice with a minimum 30 day review of CWMA submittal
6. The CWMA Copermittees will consider revising the materials based on public comments, if any
7. The MOE Team will make appropriate revisions, if any, to the materials

**1.1.4 Water Quality Improvement Monitoring and Assessment Program**

In order to measure progress of the watershed focused programs, a targeted streamlined monitoring and assessment program is vital. With our team's regional and special studies monitoring experience, we will be able to efficiently and effectively develop a monitoring program that meets the needs of the CWMA Copermittees.

*Water Quality Improvement Monitoring*

The Team will assess the existing water quality monitoring programs within the CWMA prior to initiating the development of the monitoring program. The assessment will include review of local jurisdictional monitoring, special studies, regional monitoring studies, and third-party monitoring efforts. While including the requirements set forth by MS4 permit in Section D, the Team will maintain focus on the permit identified goal of the monitoring program: inform Copermittees about the relationship between the health of receiving waters and the water quality condition of the MS4 discharges. We believe that leveraging existing and required water quality monitoring efforts to demonstrate measurable progress towards numeric goals is achievable.

The CWMA monitoring program will include all non-transitional monitoring requirements of MS4 Permit Provision D. The Team will use its experience in developing, implementing and reporting the existing annual regional monitoring program to help streamline the development process. Portions of the CWMA include a watershed area that is subject to the Bacteria TMDL. The monitoring program will integrate a TMDL monitoring program for the San Marcos HA watershed.

*Special Studies*

The Team will propose special studies that will fulfill the requirements of Provision D.3. of the MS4 Permit. The proposed special studies will focus on the CWMA HPWQCs and will include some form of participation by all Copermittees in the WMA. Special studies will be question-driven and may address a variety of topics including, water quality data gaps, effectiveness/efficiency of water quality improvement strategies, and source and/or pollutant generating activity identification. The Team will account for regional efforts that address the priorities of the CWMA HPWQCs. The Team will use its experience and knowledge of the CWMA when considering special

studies to propose to the Copermittees for inclusion in the WQIP. The Team will consider required and existing monitoring efforts in the design of special studies in order to identify possible overlap and maximize resources.

#### *Assessment Program*

The Team will develop an integrated assessment program that assesses data collected from, at a minimum: monitoring programs; special studies; results of JRMP implementation; and implementation of optional watershed strategies. The purpose of the assessment program will be two-fold: demonstration of progress towards achieving numeric goals, and the identification of necessary modifications to the CWMA WQIP. The Team will use its experience in program development and assessment as the foundation for developing the CWMA integrated assessment program that will include the requirements of Provision D.4. of the MS4 Permit.

#### **1.1.5 Water Quality Improvement Plan Submittal**

It is anticipated that two preliminary drafts of the CWMA WQIP will be prepared for review and comment by the Copermittees. The timing of the drafts will be agreed upon when the detailed project schedule is established. Each preliminary draft will be revised based on comments from the Copermittees. Each subsequent version, including the final draft, will be accompanied by a comment table that describes how each comment was addressed by the Team.

The MOE Team will prepare a final draft of the Carlsbad Watershed Management Area Water Quality Improvement Plan for submittal to the CWMA Copermittees a minimum of three months prior to the due date of June 26<sup>th</sup>, 2015. It is anticipated that this final draft version may be used to take to elected bodies (Councils and Board) as informational items, for approval and/or adoption. The Copermittees will have a review period, agreed upon during the initial project schedule setup. The Team will then review and consider all comments received. A revised version of the WQIP, with an accompanying comment table that describes how the Team addressed each comment, will be reissued to the Copermittees as a final print draft. It is anticipated that no further significant changes to the document will be required beyond the final print draft.

A final version of the CWMA WQIP will be submitted to the CWMA Copermittees no later than Thursday, June 18<sup>th</sup>, 2015. Note: If the CWMA and Team agree upon an earlier submittal date, the abovementioned dates will be adjusted accordingly.

#### Deliverables:

1. Final draft of CWMA WQIP to the CWMA Copermittees by March 26<sup>th</sup>, 2015 that includes all requirements of Provision B of the MS4 Permit
2. Final version of CWMA WQIP to the CWMA Copermittees by June 18<sup>th</sup>, 2015 for submittal to the RWQCB

#### Process and Revisions:

1. Submit the final CWMA WQIP to the RWQCB by June 26<sup>th</sup>, 2015 that includes all requirements of Provision B of the MS4 Permit
2. The RWQCB will issue public notice with a minimum 30 day review of the CWMA WQIP
3. The CWMA Copermittees will consider revising the WQIP based on public comments, if any
4. The MOE Team will make appropriate revisions, if any, to the CWMA WQIP – revisions must be submitted within 60 days after the close of the public comment period

## **1.2 RFP Task 2: Public Process**

A consistent and transparent approach to the process is key to successful interaction with the public. The MOE Team will: schedule and facilitate stakeholder meetings; collect information and data; prepare and present relevant information and manage the overall public participation process as required by the MS4 Permit. As required in the MS4 Permit, the MOE Team will develop a publicly available and noticed schedule of the opportunities for the public to participate and provide comments during the WQIP development process. The Team has secured the [www.carlsbadwatershed.org](http://www.carlsbadwatershed.org) domain to communicate with the public during the WQIP

development and implementation processes. Alternatively, a CWMA Copermittee may also utilize their own website to host webpage(s) containing the public process information.

The MOE Team proposes that the Copermittees develop a Water Quality Improvement Consultation Panel (WQICP) that, at a minimum, meets the requirements of the MS4 Permit. CWMA Copermittees are also encouraged to develop work responsibilities for the WQICP members as well as basic criteria to be used to vet nominated members prior to selecting both primary and alternate members. The Team proposes to develop these items with the CWMA Copermittees.

The MOE Team proposes to have the public at large communicate with the CWMA Copermittees through their “representatives” on the WQICP. The public’s opportunities for input come at key times throughout the process: 1) selection of WQICP representative; 2) communications with representative; 3) public workshops; 4) submittal of data and information when solicited; 5) public release of documents by RWQCB for written comment.

The Copermittees and MOE Team will host public workshops and WQICP meetings to serve as the mechanisms to provide opportunities for presenting materials to the public and to receive input for the WQIP process. Lewis Michaelson will provide the facilitation services. Lewis has been a primary and consistent element of the WQIP public process since the MS4 Permit reissuance process began in April 2012. Lewis’ knowledge base and unbiased approach to facilitating public participation processes were both in perfect form during the five RWQCB focused meetings and three WQIP Mock Development workshops for the Los Peñasquitos WMA.

Lewis’ approach to facilitation has proven to be successful in the oftentimes controversial topic areas related to the content of WQIPs. The approach includes maintaining a transparent discussion between parties and ensuring that all parties have the opportunity to be heard. Lewis has “been around the block” with respect to what is relevant for the WQIP development and will provide cues to participants to maintain focused and productive discussions.

The Team will manage the required solicitation of data and information from the public to be considered during distinct parts of the WQIP development and update processes. The solicitation of data may come in a variety of formats and may occur once or several times through the WQIP development as determined by the Copermittees. The solicitation(s) will include, at a minimum, data and information for: assessment of water quality conditions (including erosional impacts, i.e. hydromodification); and potential strategies to address the water quality conditions; recommendations for: potential numeric goals for the highest priority water quality conditions for the CWMA; and strategies that should be implemented to achieve the potential numeric goals. Additional solicitations will be necessary when evaluating the WQIP for update purposes.

The data, information and recommendations received from the public (and other parties) will be used in the WQIP development and updates, as described below.

### **1.3 RFP Task 3: Evaluation of Alternative Compliance Analysis feasibility - Provision B.3.b.(4)**

Water quality improvement strategies include the myriad of Land Development requirements that the MS4 Permit includes in Provision E. However, in some cases, the Land Development requirements and standards as described in the MS4 Permit may not be the best or most appropriate in all situations. Provision B.3.b.(4) of the MS4 Permit provides a mechanism for an analysis to be conducted that could lead to the development of watershed-specific requirements for structural BMP land development requirements.

The task includes performing an evaluation of the Optional Watershed Management Area Analysis and Alternative Compliance as described in Provision B.3.b.(4) of the MS4 Permit. The evaluation will inform the CWMA Copermittees of the options, risks, costs and benefits of completing the optional WMA Analysis (aka Alternative Compliance Analysis) for the CWMA. The Team will review appropriate guidelines and MS4 permits

as well as draw upon its experiences in the local land development community to perform the evaluation. It is also proposed that the Team will hold a meeting with Copermittees' land development staff to review and vet options, risks, resource impacts and benefits of implementing Alternative Compliance and Hydromodification Management exemptions.

Deliverable:

1. Summary memorandum of feasibility analysis.

#### **1.4 RFP Task 5: Miscellaneous Activities**

Outside of responding to RWQCB correspondence, optional miscellaneous activities include:

1. Data coordination
2. Rigorous data analysis and/or modeling
3. Background research
4. Standardization
5. TMDL requirements
6. Preparation for regulatory hearings
7. Representing the CWMA at regional meetings
8. Presenting to CWMA Copermittee City Councils as needed
9. Coordinating guest speakers
10. Researching watershed programs in other parts of the State or country

At the request of the CWMA Copermittees, the Team will perform the miscellaneous activities identified above on a task-by-task basis. Some specific discussion on rigorous analysis/modeling is provided below.

##### *Rigorous Data Analysis/Modeling*

Our Team can support various data analyses and water quality condition assessments that can lend to the identification of priority goals for focusing the WQIP and associated management strategies. For similar efforts developing watershed management plans and Comprehensive Load Reduction Plans (CLRP), our team has successfully used results of data analyses to perform pollutant source and water quality conditions assessments, develop site-specific water quality criteria, and present evidence for SDRWQCB decisions regarding 303(d) de-listings, interpretation of existing water quality objectives (e.g., dilution factors for stormwater discharges to ASBS; proposed high flow suspensions of REC-1 beneficial uses within City of San Diego), or de-emphasis of stormwater runoff as a contribution to 303(d) listings (e.g., PAHs, selenium, TDS). Our team can also use models to evaluate the impacts and costs of some of these pending SDRWQCB decisions, as in the case for the Chollas Creek CLRP where a modeling system was used to estimate the BMP costs with and without consideration of proposed water effects ratios (WERs) for metals (over \$450B difference) and provide further justification to the SDRWQCB that the WER requires approval prior to implementation of the CLRP. Our team is experienced in a range of complex and simple models that are widely accepted by regulators, extensively peer-reviewed, and are within the public domain, and can assist the CWMA Copermittees in selecting and developing the appropriate approach that is tailored to the needs of the CWMA and will be approved by the SDRWQCB.

SCCWRP is currently developing models and numeric targets to support development of a TMDL for Loma Alta Slough. To prepare for the data collected to support model development, Tetra Tech supported USEPA and the RWQCB in the configuration models of seven lagoons: Loma Alta Slough, Buena Vista Lagoon, Agua Hedionda Lagoon, San Elijo Lagoon, Los Peñasquitos Lagoon, Santa Margarita Lagoon, and Famosa Slough. SCCWRP has since followed the prescribed approach for model development to support the Loma Alta Slough TMDL. Tetra Tech and AMEC further supported EPA and RWQCB to improve the understanding of the boundary conditions at Loma Alta Slough. The SCCWRP model over predicted dissolved oxygen (DO) in the slough, preventing accurate

source characterization and recommendations for implementation strategies. The suspected cause was low DO flow entering the estuary from the upstream creek. To determine whether unaccounted low DO flow from the creek was the reason the model over predicted DO in the estuary, Tetra Tech and AMEC conducted water quality monitoring and modeling of Loma Alta Creek during critical conditions when excessive algal growth results in nutrient and DO problems. As a result, further study was recommended to establish the watershed sources of nutrients and assess groundwater contributions to the Slough. For Loma Alta Slough and other waterbodies in the CWMA, our Team can continue to support the Copermittees in their review of TMDLs and guidance for decision-making. Tetra Tech and AMEC have supported the City of San Diego in similar efforts, and have led 3<sup>rd</sup> party TMDL development for Los Peñasquitos Lagoon and Famosa Slough, and improvements to the Chollas, Paleta, and Switzer Creek Estuary Toxicity TMDLs prior to their finalization by the RWQCB.

If the CWMA Copermittees deem it necessary for the MOE Team to provide any miscellaneous activity services, the Team will prepare a brief scope and fee estimate to be approved prior to initiating work. With the exception of developing rigorous analysis or modeling, the proposed not to exceed amount for Task 5 services during Phase 1 is \$60,000.

Due to the complexity of scoping rigorous analysis or modeling efforts, the Team requests that if CWMA Copermittees elect to perform a rigorous analysis or modeling, a more detailed process ensues to adequately scope and prepare cost estimates for such efforts. Our Team is fully prepared to meet with the CWMA Copermittees to further discuss these options.

## **PHASE 2**

### **1.5 RFP Task 6: CWMA Copermittee Coordination**

Mikhail Ogawa, as the Carlsbad Watershed Coordinator, has continued to provide successful coordination and administrative services for the CWMA Copermittees under the Watershed Urban Runoff Management Program (WURMP) from 2007 to the present time. These services have included setting monthly meetings, meeting facilitation, and the preparation and provision of meeting agendas and summary notes. Also as part of the Coordinator position, Mikhail has provided general coordination and lines of communication for ongoing activities throughout the CWMA – this has come in multiple forms including, recommending specific meeting agenda topics, and dissemination of information to watershed Copermittees.

The Team proposes to continue to provide the same high level service MOE has been providing for the past six years. Our approach to the task is to maintain cost effective coordination. This begins with close coordination with the Lead Copermittee to set meeting agendas and discuss pertinent issues for the CWMA Copermittees. Mikhail will also communicate, for discussion with the CWMA Copermittees, regional and statewide issues that MOE is aware of through our various experiences and exposure.

The MOE Team is directly involved with other WMA groups, non-profit environmental groups, regulators and other stakeholders in the region. Through this involvement and experiences, the Team will, as appropriate, coordinate with these groups on behalf of the CWMA Copermittees. Coordination may include correspondence, setting up meetings, requests for review of CWMA documents, or to simply share information and receive input.

Deliverables for this task include, at a minimum: (1) meeting agendas distributed one week prior to meetings; (2) meeting summaries that document decisions made by the CWMA Copermittees, topics discussed and action items – distributed within one week of meetings; and (3) technical materials and draft documents for review and discussion by the group.

### **1.6 RFP Task 7: WQIP Updates**

The MOE Team assumes Task 7 is inclusive of preparing WQIP update information to be included in the WQIP Annual Reports, as referenced in Provision F.2.c. Our Team believes the required information for the WQIP Annual Reports, per Provision F.3.b.(3), is what is necessary to complete an adequate WQIP update. The Team

considers the Annual Report submittal as the mechanism for presenting the WQIP update assessment and proposed changes.

The MOE Team will collect the necessary data and information required to assess and update the CWMA WQIP on an annual basis per Provision F.2.c. of the MS4 Permit. The assessment will be based on the assessment strategies established in the WQIP. At a minimum, the assessment will re-evaluate the priority water quality conditions, numeric goals & schedules, strategies & schedules, and monitoring & assessment programs. Working closely with the Copermittees, the Team may propose revisions to the priority water quality conditions based on changing long-term trends or overwhelming evidence that is counter to the priority water quality conditions established in the WQIP. Similarly, based on findings, the Team may propose adaptations to numeric goals and/or strategies and their schedules. Any recommendations will be accompanied by supporting rationales and evidence from the assessment.

Similar to the initial WQIP development process, the WQIP update public participation process is required to include: (1) solicitation of data, information and recommendations from the public regarding WQIP updates; and (2) consultation with the WQICP on the proposed updates. The Team proposes to use a process similar to the WQIP development to incorporate the public participation process – with the exception of the public workshops. The proposed updates, and supporting rationale, to the WQIP will be submitted to the WQICP for review.

#### Deliverables:

1. Draft of CWMA WQIP Updates/Annual Report that includes all requirements of Provision F.2.c. of the MS4 Permit
2. Final version of CWMA WQIP Updates/Annual Report (or provide to ROWD effort) to the CWMA Copermittees for submittal to the RWQCB

#### Process and Revisions:

1. Submit the final CWMA WQIP updates through the WQIP Annual Report (or ROWD) process to the RWQCB that fulfills requirements of Provision F.2.c. and F.3.b.(3)
2. The RWQCB will accept through written correspondence or through passive acceptance after 90 days
3. The CWMA Copermittees must revise the requested updates as directed by the RWQCB Executive Officer, if any
4. The MOE Team will make appropriate revisions, if any, to the CWMA WQIP updates
5. The Team will make available the WQIP update on the selected Regional Clearinghouse within 30 days of acceptance

In the event that a TMDL Basin Plan Amendment is approved by the Office of Administrative Law and USEPA, the Team will initiate an update to the WQIP within six months of approval or at the time of WQIP update, whichever occurs first.

### **1.7 RFP Task 10: Miscellaneous Activities**

If the CWMA Copermittees deem it necessary for the MOE Team to provide any miscellaneous activity services, the Team will prepare a brief scope and fee estimate to be approved prior to initiating work. With the exception of developing rigorous analysis or modeling, the proposed not to exceed amount for Task 10 services during Phase 2 is \$80,000 over the four-year term.

Due to the complexity of scoping rigorous analysis or modeling efforts, the Team requests that if CWMA Copermittees elect to perform a rigorous analysis or modeling, a more detailed process ensues to adequately scope and prepare cost estimates for such efforts. Our Team is fully prepared to meet with the CWMA Copermittees to further discuss these options.

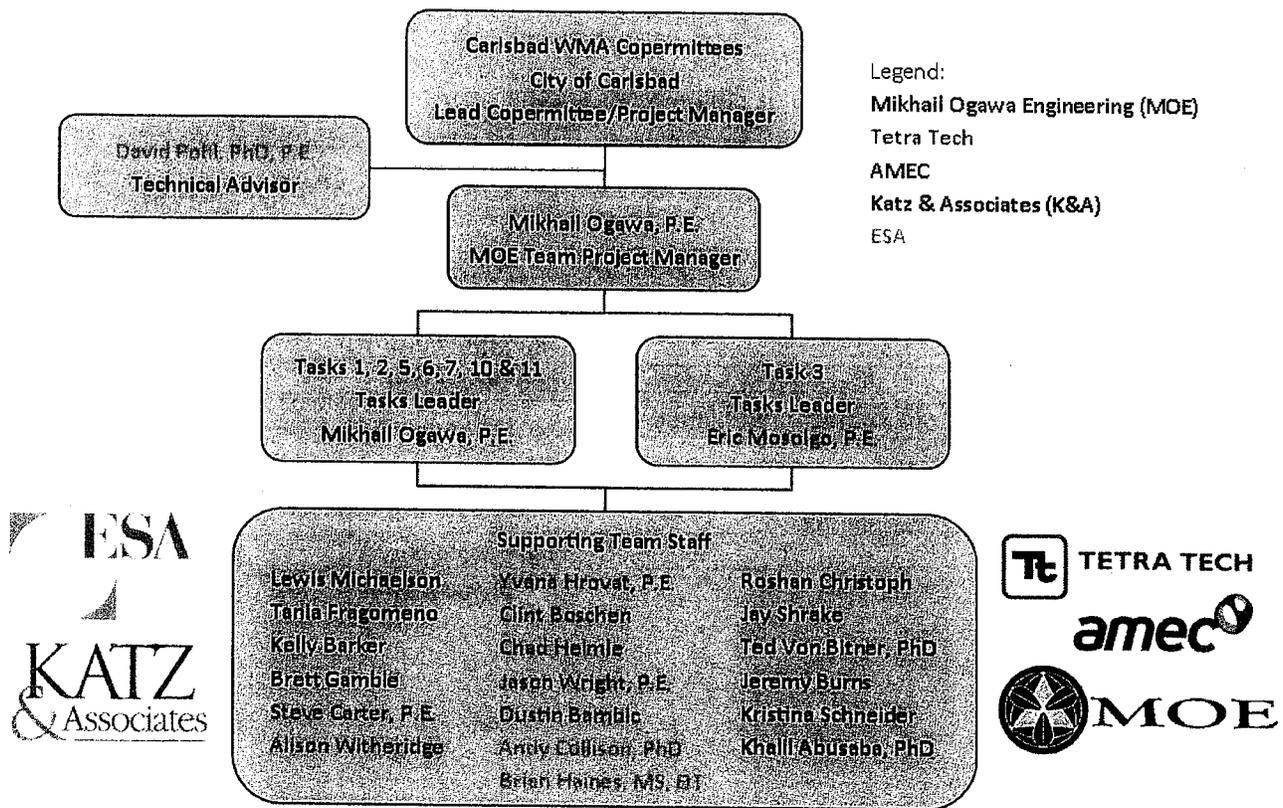
### 1.8 RFP Task 11: Contract Completion

The MOE Team will provide, as requested and at the conclusion of the contract, electronic versions of the formal documents developed for the CWMA Copermittees. The documents will be provided in both PDF and original format, e.g., Microsoft Excel, Microsoft Word, AutoCAD, ArcGIS, etc.

## 2 Project Organization and Key Personnel

The MOE Team is comprised of local technical experts in the field of urban runoff. All team members were selected for their knowledge of existing programs, “what’s in their wheelhouse”, as well as their ability to be innovative, “thinking outside the box”. The organizational structure of the Team that will be providing professional services is provided below.

The role of managing the Team will be within Mikhail Ogawa’s purview. This is not a role that Mikhail takes lightly. As a strong project manager, Mikhail will work closely with the CWMA Copermittees and the Team staff to ensure a high level of efficiency and effectiveness. Frequent and transparent communication with the Copermittees and Team will enable the project to progress with minimal issues, both technically and contractually. The Team members have worked together on a variety of projects in recent years.



#### Team Roles and Responsibilities

MOE, as the prime consultant, will be the primary point of contact for the overall project – including project management, QA/QC, ensuring Team work products meet regulatory compliance, budget management and management of sub-consultants. MOE staff will be providing technical services in all tasks of the project, with an emphasis on coordination services, water quality priorities, pollutant sources, strategy development and document writing and delivery. ESA (a sub-consultant) staff will provide the technical advisory role to the CWMA and MOE Team. ESA staff will also provide services in hydromodification management/ stream rehabilitation

related tasks. **Tetra Tech** (a sub-consultant) staff will provide services for regulatory strategy options; CWMA Analysis and hydromodification management related tasks; numeric goal setting and strategy development and scheduling. **AMEC** (a sub-consultant) staff will provide services in monitoring and assessment tasks, as well as programmatic strategy development. The proposed firms and staff are fully committed to completing the services required of this project, including Phase 1 (two years) and Phase 2 (potentially four years). Resumes of key personnel are attached to this proposal as Attachment 1. Sub-consultant letters of commitment will be provided upon request.

Mikhail Ogawa has served as the project manager on many multi-year as-needed services type projects similar to the WQIP development and implementation project. The Team has extensive experience in completing project of similar scope and size. The projects identified in the following table demonstrate the depth and breadth of our relevant experience. Complete project descriptions for these projects are located in the resumes of the identified Team personnel.

### 3 Cost Estimate

The table below is the Cost Estimate for Phases 1 & 2 of the project. The grand total cost estimate for Phases 1 & 2 is not to exceed \$539,240. This estimate is for the term of the project, a total of five years and includes estimated annual hourly rate escalations.

Project Cost Estimate		Cost Estimate
RFP #13-07 Tasks		
<b>Phase 1 (Two Years - FYs 2014 &amp; 2015)</b>		
1	Public Process	\$29,405
2	WQIP Preparation	\$199,662
3	Evaluation of Alternative Compliance Analysis Feasibility	\$16,722
5	Miscellaneous Activities	\$60,000
<i>Sub-Total Phase 1</i>		\$305,789
<b>Phase 2 (Three Years - FYs 2016 thru 2018)</b>		
6	CWMA Copermittee Coordination	\$44,300
7	WQIP Updates	\$108,144
10	Miscellaneous Activities	\$80,000
11	Contract Completion	\$1,007
<i>Sub-Total Phase 2</i>		\$233,451
<b>Project Total</b>		<b>\$539,240</b>

## MOE TEAM RATE SCHEDULES

### MIKHAIL OGAWA ENGINEERING: HOURLY RATE SCHEDULE - EFFECTIVE APRIL 1, 2013

<b>Principal Engineer</b>	<b>Senior Scientist</b>	<b>Associate Scientist</b>
Mikhail Ogawa ..... \$129.00	Kelly Barker ..... \$115.00	Brett Gamble ..... \$105.00

#### REIMBURSABLE COSTS

<b>Travel:</b>	<b>Subcontractors:</b>	<b>Other Direct Costs:</b>
Local mileage ..... Current IRS rate	Actual expense plus 5%	Actual expense plus 5%

### KATZ AND ASSOCIATES: HOURLY RATE SCHEDULE - EFFECTIVE JANUARY 1, 2013

<b>Senior Vice President</b>	<b>Senior Account Executive</b>
Lewis Michaelson ..... \$225.00	Tania Fragomeno ..... \$150.00

### TETRA TECH: HOURLY RATE SCHEDULE

<b>Principal</b>	<b>Senior Civil Engineers</b>	<b>Senior Water Resources Specialist</b>
Stephen Carter ..... \$214.11	Jonathan Butcher ..... \$165.18	Clint Boschen ..... \$149.89
	John Riverson ..... \$165.18	
<b>Project Managers</b>	<b>Associate Civil Engineers</b>	<b>Associate Water Resources Specialist</b>
Dustin Bambic ..... \$183.53	Jason Wright ..... \$128.47	Alison Witheridge ..... \$113.18
Chad Helmle ..... \$183.53	Yvana Hrovat ..... \$128.47	
<b>Senior Hydrologist</b>		<b>Junior Civil Engineer</b>
Eric Mosolgo ..... \$152.94		Merrill Taylor ..... \$91.77

### ESA: HOURLY RATE SCHEDULE

<b>Senior Program Manager</b>	<b>Senior Fluvial Geomorphologist</b>	<b>Senior Associate</b>
David Pohl ..... \$190.00	Andy Collison ..... \$180.00	Brian Haines ..... \$180.00

### AMEC: HOURLY RATE SCHEDULE - EFFECTIVE JANUARY 1, 2013

<b>Senior Associate</b>	<b>Associates</b>	<b>Senior Staff</b>
Jay Shrake ..... \$185.00	Matt Rich ..... \$165.00	Roshan Christoph ..... \$150.00
	Ted VonBitner ..... \$165.00	
	Tommy Wells ..... \$165.00	
<b>Associates</b>	<b>Senior Staff</b>	<b>Technical Professionals</b>
Khalil Abusaba ..... \$165.00	Jeremy Burns ..... \$150.00	Edith Moreno ..... \$125.00
Kristina Schneider ..... \$165.00		Rachel Davenport ..... \$125.00

#### REIMBURSABLE COSTS

<b>Travel Expenses:</b>	<b>Other Direct Costs:</b>	<b>Miscellaneous Expenses</b>
Transportation, lodging ..... Cost plus 15%	Cost plus 15%	6% of labor charges
<b>Subcontractors:</b>	<b>Unit Pricing (Lab analysis, rentals, etc.)</b>	
Cost plus 5%	Will be quoted separately	

Hourly rates for all firms are subject to a 5% annual escalation, beginning January 1, 2014.

#### **4 Optional Services**

The MOE Team has extensive GIS capabilities and is prepared to provide GIS services to the CWMA Copermittees. Capabilities include general mapping and delineation services as well as analysis of geographical information. The Team can use GIS mapping to generate linkable PDFs that use clickable hyperlinks to easily show complex information, such as water quality data on maps or accompanying tables. Another capability is the use of KML files: the Team can translate GIS shapefiles (both point and polygons information) into KML files that can be easily opened and viewed in Google Earth. This approach is oftentimes very useful for quick viewing and analysis of the geographical information. It also makes it easier to present information to the public via websites if desired by the CWMA Copermittees.

Outside of the anticipated services to be provided through WQIP development and update services (which are accounted for in the cost estimates in Section 6 of this proposal) these optional services would be provided at the direction of the CWMA Copermittees. A placeholder estimate for these services over the term of the contract is \$20,000.

#### **5 Statement of unspecified value-added offerings**

As previously stated in the proposal, the MOE Team is comprised of a select group of firms. Each of the firms and the proposed staffing for the project have trusted reputations and relationships with WQIP stakeholders including but not limited to: (1) non-profit environmental groups; (2) regulatory agencies, e.g., RWQCB; and (3) building industry representatives. These reputations and relationships provide added value to the CWMA Copermittees. Stakeholders are more likely to be confident in the necessary correspondence, interactions and work products of the MOE Team based on our existing reputations and relationships in the region. This translates into transparent communications regarding content of the CMWA WQIP which will facilitate a WQIP that will be accepted and approved by the stakeholders, including the RWQCB.

#### **6 Addenda to this Request for Proposals**

The MOE Team has not received any addenda to RFP# 13-07 for Carlsbad Watershed Management Area (CWMA) San Diego Regional Water Quality Control Board (RWQCB) Order No. R9-2013-0001 (Order) Water Quality Improvement Plan (WQIP) Development and Implementation dated May 14, 2013.

#### **7 Exceptions to this Request for Proposals**

By submission of this proposal, the MOE Team certifies that it takes no exception to the contents of RFP# 13-07, including the City of Carlsbad's Standard Professional Services Contract.