

Summary Annual Budgets: Lake Elsinore & Canyon Lake TMDL Task Force

7/30/2013

Summary Task Force Expenditures

	Approved Budget FY 06 & 07	Actual Expenditures FY 06 & 07	Approved Budget 2007-08	Actual Expenditures 2007-08	Approved Budget 2008-09	Actual Expenditures 2008-09	Approved Budget 2009-10	Actual Expenditures 2009-10	Approved Budget 2010-11	Actual Expenditures 2010-11	Approved Budget 2011-12	Actual Expenditures 2011-12	Approved Budget 2012-13	to date Expenditures 2012-13	Approved Budget 2013-14	to date Expenditures 2013-14
A. Task Force Administration																
LESJWA Staff	98,800.00	88,316.34	65,800.00	76,051.00	85,000.00	94,059.32	85,000.00	127,046.84	85,000.00	108,491.46	100,000.00	111,188.49	50,000.00	50,000.00	50,000.00	
Annual Water Quality Reporting and Database Management	40,000.00	25,000.00	15,000.00	23,916.66	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00						
Grant Preparation		9,790.54			20,000.00											
B. TMDL Compliance Expert (Risk Sciences)	85,000.00	34,841.04	85,000.00	52,906.10	82,880.00	29,130.93	85,000.00	32,171.68	85,000.00	83,566.99	50,000.00	43,800.03	50,000.00	49,088.88	50,000.00	
C. TMDL Monitoring Program																
Phase 1 - Watershed Nutrient Monitoring					50,000.00	37,261.00	60,000.00	59,722.49	157,000.00	58,153.51	70,000.00	47,652.40	70,000.00	42,258.30	70,000.00	
Phase 1 - Watershed Lab Analysis	32,300.00	-	32,300.00										15,000.00	-	15,000.00	
Phase 1 - Canyon Lake Nutrient Monitoring and Lab Analysis			121,100.00	121,078.00	148,549.00	110,021.25	160,000.00	154,124.26	160,000.00	3,228.95	135,000.00	150,000.00				
D. TMDL Implementation Plan Requirements																
Watershed and Canyon Lake and Lake Elsinore In-Lake Modeling Plan	40,000.00	-	-	Task Force Admin												
Update Water Quality Models							100,000.00	99,999.82	60,000.00							
Pollutant Trading Options Plan	60,000.00	-	-	Task Force Admin												
Pollutant Trading Implementation Plan							80,000.00		80,000.00		50,000.00		60,000.00			
Water Quality Modeling Implementation Plan					40,000.00		40,000.00									
Additional Canyon Lake In-Lake Treatment Modeling					10,000.00	10,000.00										
Canyon Lake Management Plan / Project Alternatives									100,000.00	84,322.00	103,000.00	42,000.00				
Review and Revision of Water Quality Objectives (DO Target Adjustment)															50,000.00	
E. TMDL Implementation Projects																
Canyon Lake Project Alternative (Hybrid Treatment Project)													220,000.00	38,872.71	330,000.00	
F. Additional Studies & Models																
Canyon Lake Pathogen Monitoring **					30,000.00	29,999.90	50,000.00									
Monitoring Study - Local Dry-weather Runoff Flows and Water Quality			40,000.00													
Lake Elsinore Biological Monitoring & Bathymetric Analysis							92,200.00	74,647.39	100,000.00							
G. Contingency (approximately 10% of direct stakeholder expenses)	44,400.00	-	87,500.00		48,143.00		67,500.00		13,500.00				16,000.00		15,000.00	
TOTAL TMDL Implementation Expenditures:	400,500.00	157,947.92	446,700.00	273,951.76	529,572.00	325,472.40	742,500.00	562,712.48	855,500.00	352,762.91	508,000.00	394,640.92	481,000.00	180,219.89	580,000.00	-
Open Task Orders:																
Stakeholder Cash Contributions:		400,500.00		446,700.00		451,335.00		433,093.16		447,176.80		379,290.00		141,611.00		-
Balance TMDL Implementation Budget:		242,552.08		172,748.24		125,862.60		(129,619.32)		94,413.88		(15,350.92)		(38,608.89)		0.00
Previous Year Reserve Carryover:		-na-		242,552.08		415,300.32		541,162.92		411,543.60		505,957.48		289,279.02		250,670.13
Cummulative Carryover:		242,552.08		415,300.32		541,162.92		411,543.60		505,957.48		490,606.56		250,670.13		250,670.13

NEW TASK FORCE AGREEMENT

Detailed Stakeholder Contributions***

	Approved Budget FY 06 & 07	Actual Contributions FY 06 & 07	Approved Budget 2007-08	Actual Contributions 2007-08	Approved Budget 2008-09	Actual Contributions 2008-09	Approved Budget 2009-10	Actual Contributions 2009-10	Approved Budget 2010-11	Actual Contributions 2010-11	Approved Budget 2011-12	Actual Contributions 2011-12	Approved Budget 2012-13	to date Contributions 2012-13	Approved Budget 2013-14	to date Contributions 2013-14
Stakeholder Allocation																
A. MS4 Co-Permittees (Total)	86,400.00	86,400.00	141,011.00	141,011.00	173,312.70	173,314.00	230,919.89	230,920.36	221,588.40	221,588.40	183,139.00	183,139.00	63,970.92	63,972.00	354,359.36	cr \$ 33,671.00
Riverside County	28,591.14	28,591.14	46,663.00	46,663.00	57,351.94	57,352.00	76,415.08	76,415.08	39,829.77	39,829.77	32,919.00	32,919.00	-na-	-na-	33,900.64	
City of Beaumont	1,474.09	1,474.09	2,406.00	2,406.00	2,956.93	2,957.00	3,939.79	3,940.00	4,719.53	4,719.53	3,900.00	3,900.00	1,864.55	1,865.00	19,706.00	
City of Canyon Lake	1,829.75	1,829.75	2,986.00	2,986.00	3,670.35	3,670.00	4,890.34	4,890.00	4,109.46	4,109.46	3,396.00	3,396.00	643.66	644.00	18,774.44	
City of Hemet	11,120.85	11,120.85	18,150.00	18,150.00	22,307.68	22,308.00	29,722.51	29,723.00	27,460.77	27,460.77	22,696.00	22,696.00	6,285.50	6,286.00	20,750.00	
City of Lake Elsinore	3,862.05	3,862.05	6,303.00	6,303.00	7,747.03	7,747.00	10,322.05	10,322.00	14,595.08	14,595.08	12,063.00	12,063.00	-na-	-na-	20,750.00	
City of Moreno Valley	25,243.87	25,243.87	41,200.00	41,200.00	50,637.54	50,638.00	67,468.89	67,469.00	63,546.31	63,546.31	52,520.00	52,520.00	15,425.27	15,425.00	109,525.00	
City of Murrieta	1,000.00	1,000.00	1,632.00	1,632.00	2,005.93	2,006.00	2,672.68	2,673.00	786.96	786.96	650.00	650.00	-na-	-na-	12,500.00	
City of Perris	7,477.62	7,477.62	12,204.00	12,204.00	14,999.61	15,000.00	19,985.31	19,985.00	20,060.94	20,060.94	16,580.00	16,580.00	5,751.56	5,752.00	20,750.00	
City of Riverside	1,032.25	1,032.25	1,685.00	1,685.00	2,070.63	2,071.00	2,758.88	2,759.00	3,587.28	3,587.28	2,965.00	2,965.00	1,575.46	1,575.00	17,977.00	
City of San Jacinto	4,768.38	4,768.38	7,782.00	7,782.00	9,565.05	9,565.00	12,744.36	12,744.36	13,470.59	13,470.59	11,133.00	11,133.00	4,315.45	4,315.00	20,750.00	
City of Menifee									24,752.77	24,752.77	20,458.00	20,458.00	23,648.77	23,649.00	46,476.28	
City of Wildomar									4,668.93	4,668.93	3,859.00	3,859.00	4,460.69	4,461.00	12,500.00	cr \$ 4,193.00
B. Riverside County Flood Control & Water Conservation District (RCFC&WCD)																
C. Lake Elsinore Comprehensive Water Management Agreement (Total)	12,000.00	12,000.00	14,712.00	14,712.00	27,312.70	27,312.00	114,919.89	114,920.00	150,588.40	150,588.40	122,140.00	122,140.00				
Elsinore Valley Municipal Water District (EVMWD)	6,000.00	6,000.00	7,356.00	7,356.00	13,656.35	13,656.00	57,459.94	57,460.00	75,294.20	75,294.20	61,070.00	61,070.00	-na-	-na-	12,500.00	
City of Lake Elsinore	6,000.00	6,000.00	7,356.00	7,356.00	13,656.35	13,656.00	57,459.94	57,460.00	75,294.20	75,294.20	61,070.00	61,070.00	-na-	-na-	-na-	
D. San Jacinto Agricultural Operators	193,200.00	193,200.00	205,010.00	205,010.00	237,312.70	159,075.00	294,919.89	-	300,588.40	-	143,320.00	24,011.00	28,278.01	28,278.00	12,500.00	
E. San Jacinto Dairy & CAFO Operators	33,900.00	33,900.00	35,967.00	35,967.00	41,633.81	41,634.00	37,252.80	37,252.80	37,969.20	25,000.00	10,000.00	-	10,211.35	10,211.00	12,500.00	
F. CALTRANS - freeway	15,000.00	15,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	13,050.00	-	12,500.00	
G. CA DF&G - San Jacinto Wetlands	15,000.00	15,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	13,050.00	-	12,500.00	
H. US Forest Service (USFS)	-na-	-na-	-na-	-na-	-na-	-na-	-na-	-na-	-na-	-na-	-na-	-na-	-na-	-na-	-na-	-na-
I. Eastern Municipal Water District	15,000.00	15,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	13,050.00	13,050.00	12,500.00	
J. March Air Reserve Base Joint Powers Authority	15,000.00	15,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	13,050.00	13,050.00	12,500.00	
K. US Air Force (March Air Reserve Base)	15,000.00	15,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	13,050.00	13,050.00	12,500.00	
Total Funding Required	400,500.00	400,500.00	446,700.00	446,700.00	529,571.90	451,335.00	742,500.00	433,093.16	760,734.39	447,176.80	508,599.00	379,290.00	167,710.28	141,611.00	454,359.36	

NEW TASK FORCE AGREEMENT

NOTES:
 ** Note: Pathogen monitoring for Canyon Lake is a voluntary response by participants of the Lake Elsinore and Canyon Lake TMDL Task Force to address water quality beyond the scope of the Lake Elsinore and Canyon Lake nutrient TMDLs. This program designed to monitor pathogen compliance for Canyon Lake will continue only until the next CWA 303(d) Listing Cycle.
 *** Note: Allocations reflect outside stakeholder funding

Paid Stakeholder Contribution
 Partially Paid Stakeholder Contribution
 Unpaid Stakeholder Contribution
 Revised Stakeholder Allocation
 Work NOT Conducted by Task Force
 Expenditures (not budgeted in current year)
 Open Task Order
 Actual Stakeholder \$ Funding Credit (Approved)

Detailed Outside Stakeholder Contributions

Approved Budget FY 06 & 07 Actual Expenditures FY 06 & 07 Approved Budget 2007-08 Actual Expenditures 2007-08 Approved Budget 2008-09 Actual Expenditures 2008-09 Approved Budget 2009-10 Actual Expenditures 2009-10 Approved Budget 2010-11 Actual Expenditures 2010-11 Approved Budget 2011-12 Actual Expenditures 2011-12 Approved Budget 2012-13 Actual Expenditures 2012-13 Approved Budget 2013-14 Actual Expenditures 2013-14 ^{7/30/2013} Approved Budget 2013-14 Actual Expenditures 2013-14

Stakeholder Funding \$ Credits (estimated costs reflected in stakeholder allocation)

	Approved Budget FY 06 & 07	Actual Expenditures FY 06 & 07	Approved Budget 2007-08	Actual Expenditures 2007-08	Approved Budget 2008-09	Actual Expenditures 2008-09	Approved Budget 2009-10	Actual Expenditures 2009-10	Approved Budget 2010-11	Actual Expenditures 2010-11	Approved Budget 2011-12	Actual Expenditures 2011-12	Approved Budget 2012-13	Actual Expenditures 2012-13	Approved Budget 2013-14	Actual Expenditures 2013-14	^{7/30/2013} Approved Budget 2013-14	Actual Expenditures 2013-14
A MS4 Funding Credits (RCFC&WCD)	106,767.00	97,054.15	64,000.00	77,653.37	64,000.00	70,597.50	64,000.00	69,824.00	79,000.00	81,344.00	79,000.00	75,690.00						
Phase 1 - Watershed-wide Monitoring (Lab Analysis)	10,767.00	1,054.15	-	13,653.37	-	6,597.50	-	5,824.00	15,000.00	17,344.00	15,000.00	11,690.00						
Phase 1 - Stream gauge O&M	96,000.00	96,000.00	64,000.00	64,000.00	64,000.00	64,000.00	64,000.00	64,000.00	64,000.00	64,000.00	64,000.00	64,000.00						
Wet Year Watershed-wide Monitoring (Weather Dependant)	-	-	-	-	-	-	-	-	-	-	-	-						
B Lk Elsinore Comp Water Mgt Agrmt Funding Credits (EVMWD)	181,175.00	129,216.12	190,300.00	167,028.48	210,000.00	262,111.63	180,000.00	149,390.89	150,000.00	97,376.65	140,000.00	85,992.59						
Phase 1 - Lake Elsinore Nutrient Monitoring (MWH/CSUSB)	144,375.00	112,212.77	148,600.00	148,578.00	168,300.00	150,488.17	180,000.00	149,390.89	150,000.00	97,376.65	140,000.00	85,992.59						
In-Lake Sediment Reduction Plan (MWH/Horne)	-	17,003.35	-	18,450.48	-	111,623.46	-	-	-	-	-	-						
In-Lake Project Evaluation	19,900.00	-	20,000.00	-	20,000.00	-	-	-	-	-	-	-						
In-Lake Sediment Reduction Plan	16,900.00	-	16,900.00	-	16,900.00	-	-	-	-	-	-	-						
Sediment Treatment Study	-	-	4,800.00	-	4,800.00	-	-	-	-	-	-	-						
C Dairy/Agricultural Operator Funding Credits (WRCAC)	-	-	-	101,858.09	-	-	-	19,338.81	-	-	-	-						
Aerial Mapping/Identification of Agricultural Operations	-	-	-	79,361.39	-	-	-	19,338.81	-	-	-	-						
Upper Watershed Nutrient Monitoring (dairy/agriculture split 50/50)	-	-	-	22,496.70	-	-	-	-	-	-	-	-						
CA Fish & Game Credit Transfer	-	-	-	-	-	-	-	-	-	-	-	-						
Total Stakeholder Credits	287,942.00	226,270.27	254,300.00	346,539.94	274,000.00	332,709.13	244,000.00	238,553.70	229,000.00	178,720.65	219,000.00	161,682.59						
In-Kind Services Share (costs not reimbursed to stakeholder)	-	-	-	-	-	-	-	-	-	-	-	-						
A LE & CL Nutrient TMDL Monitoring Plan (LESJWA)	-	34,624.00	-	-	-	-	-	-	-	-	-	-						
B TMDL Compliance Expert (RCFC&WCD)	25,000.00	25,000.00	-	-	-	-	-	-	-	-	-	-						
C Phase 2 - Stream Gauge O&M (RCFC&WCD)	154,000.00	-	77,000.00	-	77,000.00	-	77,000.00	-	77,000.00	-	77,000.00	-						
D S.B. Forest Natural Background Study (USFS)	15,000.00	-	10,000.00	-	10,000.00	-	10,000.00	-	10,000.00	-	10,000.00	-						
E Pathogen Monitoring Funding (Regional Board)	-	-	-	-	10,000.00	-	-	-	-	-	-	-						
Total Stakeholder In-Kind Services	194,000.00	59,624.00	87,000.00	-	97,000.00	-	87,000.00	-	87,000.00	-	87,000.00	-						
Grant Funding	-	-	-	-	-	-	-	-	-	-	-	-						
A Prop 50 Planning Grant (SJWRC)	-	85,400.00	18,000.00	18,000.00	-	-	-	-	-	-	-	-						
Canyon Lake Nutrient TMDL Monitoring (2006-07)	-	41,708.00	-	-	-	-	-	-	-	-	-	-						
Canyon Lake Nutrient Flux and Oxygen Demand Study	-	43,692.00	-	-	-	-	-	-	-	-	-	-						
Canyon Lake Alternatives Modeling study	-	-	18,000.00	18,000.00	-	-	-	-	-	-	-	-						
B Agriculture (UCR) Agricultural Management Study	-	-	-	-	-	-	-	-	-	-	-	-						
C Prop 40 Implementation Grant (LESJWA)	-	18,022.39	-	1,471,956.12	-	65,000.81	-	71,116.20	-	314,015.78	-	329,898.76						
Lake Elsinore - Back Basin Wetlands Enhancements	-	8,020.52	-	90,568.29	-	51,905.37	-	36,285.45	-	17,511.86	-	329,898.76						
Lk Elsinore Comp Water Mgt (EVMWD) (Recharge Pipeline Project)	-	10,001.87	-	1,381,387.83	-	13,095.44	-	34,830.75	-	296,503.92	-	-						
Lake Elsinore - Biological Performance Monitoring	-	-	-	-	-	-	-	-	-	-	-	-						
D Prop 84 Alum Application Grant (LESJWA)	-	-	-	-	-	-	-	-	-	-	-	-			250,000.00	-	250,000.00	
Total Grant Funding	-	103,422.39	18,000.00	1,489,956.12	-	65,000.81	-	71,116.20	-	314,015.78	-	329,898.76						

NEW TASK FORCE AGREEMENT

NOTES:

Stakeholder Contributions estimated as follows:
 PRO-RATA SHARE for stakeholders are derived from a formula where the the cost share to MS4 CO-PERMITTEES is 28.5%, Agricultural Operators is 28.5%, EVMWD is 14.25%, the CITY OF LAKE ELSINORE is 14.25% (plus an allocation under MS4), and Dairy is 5% of the TOTAL TMDL Implementation Expenditures minus the fixed cost shares of CALTRANS, CA DF&G, USFS, EMWD, US Air Force (March Air Reserve Base), and the March Air Reserve Base Joint Powers Authority MINUS any Stakeholder Funding \$ Credits provided by that stakeholder.



6 June 2013

Rick Whetsel
Lake Elsinore - San Jacinto Watersheds Authority
11615 Sterling Ave.
Riverside, CA 92503

RE: Proposed Scope-of-Work for LECL TMDL Task Force in 2013-14

Dear Mr. Whetsel:

Per your request, I have prepared the following preliminary scope of work and cost estimate to support the Lake Elsinore/Canyon Lake TMDL Task Force in FY2013-14. In the coming year, most of our effort will be devoted to three large tasks:

- 1) Obtain approval of the CNRP/AgNMP (extended from FY2012-13)
- 2) Negotiate the BMP implementation agreements for both Canyon Lake and Lake Elsinore (extended from FY2012-13)
- 3) Develop a water quality monitoring plan to demonstrate the effectiveness of all in-lake nutrient control projects (coordinated with CDM-Smith).

As in the past, my role will be to serve as regulatory strategist and compliance expert for the Task Force. To accomplish these ends, I will prepare for and participate in up to eight meetings of the Technical Advisory Committee (TAC) and/or Task Force to review and revised the various regulatory implementation strategies as necessary to assure compliance with the TMDL. A summary task schedule is shown in Table 1.

Table 1: Task Summary for 2013-14

Task	Description	Due Date
1	Assist in obtaining Regional Board approval of the CNRP and AgNMP.	Oct., 2013
2	Prepare and revise cost allocation and credit sharing agreements to support development of BMP implementation projects.	Mar., 2014
3	Develop water quality monitoring plan to evaluate effectiveness of the in-lake nutrient control projects (e.g. aeration and alum).	Aug., 2013
4	Task Force & TAC Meetings (up to 8 trips)	To Be Scheduled

I estimate that meeting the proposed schedule will require approximately 12 hours per month. My professional fee is \$285 per hour plus travel expenses. All other direct expenses (telecommunications, postage, photocopies, etc.) are already included in the fee. The total estimated cost, including travel, is shown in Table 2 and is approximately \$1,000 less than our current contract for FY2012-13.

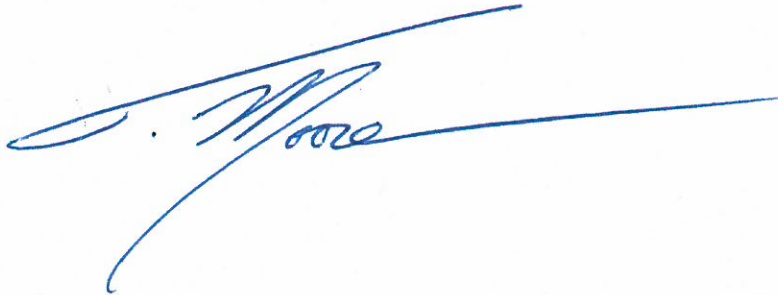
Table 2: Proposed Compensation for 2013-14

Description	Amount
Professional Fees (144 hours)	\$41,040
Travel Expenses (8 trips * \$950/trip)*	\$7,600
Total	\$48,640

*Trip expenses are routinely shared among multiple clients to minimize costs. The estimate is based on the historical average cost for previous travel on behalf of the LE/CL Task Force.

I appreciate the opportunity to continue supporting with the Lake Elsinore/Canyon Lake TMDL Task Force and look forward to working together next year.

Respectfully submitted,



Timothy F. Moore

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Suggestions for additional studies

- 1) Perform statistical analyses on water quality data generated for Lake Elsinore and Canyon Lake to evaluate how chlorophyll a levels and dissolved oxygen are related to TP and TN concentrations, lake level or other factors (requested by Hope Smythe).
- 2) Conduct scientific study to document the magnitude of offset credit that should be associated with fish stocking in Lake Elsinore, similar to the evidence that we have put together for the carp removal program to validate nutrient credits.
- 3) Conduct scientific study for Lake Elsinore to quantify a translator between supplemental water additions and equivalent nutrient reduction credits.
- 4) Submit revised comprehensive watershed and in-lake monitoring program by December 31, 2014 for implementation in fiscal year 2015-2016.
- 5) Review and revise the DO water quality target set for the TMDL.
- 6) Review and revise TMDL