

DATE: November 23, 2015

TO: RMC Governing Board

FROM: Mark Stanley, Executive Officer

SUBJECT: Item 9: Consideration of a resolution authorizing a grant to the LA River Revitalization Corporation for the Lower Los Angeles River Integrated Design Project (RMC 15110)

PROGRAM AREA: Urban Lands

PROJECT TYPE: Planning

JURISDICTION: Countywide, Supervisory Districts 1, 2 and 4

PROJECT MANAGER: Marybeth Vergara

RECOMMENDATION: That the RMC authorize a grant in the amount of \$500,000 to the Los Angeles River Revitalization Corporation for the Lower Los Angeles River Integrated Design Project (RMC15110).

PROJECT DESCRIPTION: The goal for this project is to develop an integrated design and technical analysis of the Lower LA River reach within the jurisdiction of the RMC.

BACKGROUND: The project is part of an effort to create a unique identity and multi-use benefits for the 51 mile length of the Los Angeles River, while maintaining flood control capacity. The LA River Revitalization Corporation (LARRC) has been building momentum around this effort along with a core technical team including Gehry Partners, OLIN Landscape, and Geosyntec. In addition, they have been very successful in obtaining matching funds in the form of public and private grants for this work. Specifically, the project has obtained a grant from the Santa Monica Mountains Conservancy (SMMC) in the amount of \$1 million dollars, and philanthropic gifts totaling \$570,000. Including the grant from the RMC, these funds total \$2,070,000. The LA River Corporation will continue to seek matching funds for the remaining balance of \$1,030,000.

The goal is to develop an integrated design and technical analysis along the entire 51-mile length of the LA River and create a range of river interventions and multi-benefit capital improvement projects. The grant will allow the LA River Corporation to continue to leverage funds received towards the 51-mile river analysis and design. The activities and deliverables related to the Lower section of the LA River represent approximately 16% of the larger project budget for Phase One. Work performed in this first phase will become the foundation for future project phases and related Scopes. The Lower LA River reaches include the Southeast Cities reach, Southern cities reach and the Estuary Reach within the City of Long Beach and adjacent area.

The project includes six main tasks and deliverables including:

1. Basis of Design Testing
2. Data Acquisition and Analysis
3. Water Resources Research and Benefits Estimation
4. Initial Beta Tests and Econometrics

5. Public Engagement
6. Project Management

Tasks 1-4 consist primarily of Data-driven design including the use of targeted data to determine how the LA River can be designed towards addressing seven key criteria: flood control, water quality, water recharge, public health, ecosystem services, recreation and land use. The primary objective for this work is to provide information on flow rate and stage within Lower LA River Reaches to enable the design team to develop initial concepts, select an initial “functional flow rate” for each Lower LA River Reach, and select sites for more detailed evaluations. The specific deliverables for this phase include an Analysis in the form of a report of water surface elevation, average velocity, average shear stress, and percent of time usable for three flow rates at Lower LA River Reaches. GIS maps and similar data will also be compiled as well as a compilation of ecosystem services, public health benefit data, and an analysis of site improvement costs/site maintenance data and analysis for the Lower LA River reaches.

Task 3: Water Resources Research and Benefits Estimation will strive towards estimating and understanding the volumes of water within the Lower LA River reaches originating in the tributary watersheds and entering the system from wastewater discharges, urban runoff, springs and seeps, and groundwater upwelling. Additionally, this task will explore the range of demands on the water within the Lower La River reaches to determine how to address the increased need for local water supply. The specific deliverables for this task include a Summary Technical Memorandum, and the establishment of a framework for more accurate calculations and developing difficult data sets for future phases. In addition, water resource maps will be created for the Lower LA River reaches.

Task 5 Public Engagement includes the objective of providing an engagement strategy for communities within the Lower LA River Reaches that builds a robust public dialogue around the vision for a seamless, iconic experience along the river. Community residents and elected officials will be included in this outreach strategy so that they will feel a sense of ownership in its success. This task will include initial outreach, collection of feedback/dialogue results received (online and offline) and a data assessment of the population most impacted by the revitalization project within the Lower LA River reaches.

Finally, **Task 6** consists of the Project Management components of this project. The objective will be to ensure project deliverables are completed on time and within budget by creating realistic project plans, estimated time and effort, and managing team coordination in an effective manner.

See the Attached Exhibit C: Technical Analysis Scope of Work for further details on these tasks and project deliverables.

The LA River Revitalization Corporation has been seeking there are matching funds for this work including a grant from the Santa Monica Mountains Conservancy in the amount of \$1,00,000 and philanthropic gifts totaling \$570,000. There is still a project shortfall totaling \$1,030,000. The cost breakdown is as follows:

<u>FUNDING AGENCY</u>	<u>Grant Amount</u>	<u>Project Shortfall</u>
Philanthropic Gifts	\$570,000	\$1,030,000
Santa Monica Mountains Conservancy	\$1,000,000	
Rivers & Mountains Conservancy	\$500,000	
Total Project Cost \$3,100,000	\$2,070,000	\$1,030,000

The work to be undertaken by the LA River Revitalization Corporation is anticipated to share information with a variety of activities taking place along the Lower portion of the LA River. This includes the Urban Greening Master Plan for the Southeast Cities, undertaken by the Watershed Conservation Authority, to be completed by Spring 2017. Since the passage of AB 530, a Lower LA River Working Group will be established and RMC Staff is expected to staff this working group whose main goal will be to undertake a Master Planning effort for the cities along the Lower LA River. The results of this technical analysis will complement that Master Planning effort and vice-versa. Finally, efforts will be made to incorporate as much information as possible into the LA County Parks Needs Assessment currently underway by the LA County Parks Department, to be completed by Summer 2016 in anticipation of a potential parks bond on the November ballot. Finally, coordination will take place by LA River Revitalization staff and key cities along the Lower LA River as well as work being done by the Gateway Cities Council of Governments.

Upon approval by the RMC Board, this work will begin immediately and is anticipated to be completed by July 2016. Tasks 1- 4 (Basis of Design Testing, Data Acquisition & Analysis, Water Resources Research and Benefits Estimation, and Initial Beta Tests and Econometrics) will take place between January – May 2016. Task 5 Public Engagement will be completed by July 2016, along with Task 6 Project Management. However, in order to allow sufficient time for project delays, and administrative close out, this grant will end on December 30, 2016.

See the attached Exhibit A: Tasklist and Timeline; Exhibit B: Budget; Exhibit C: Technical Analysis Scope of Work; and Exhibit D: Preliminary Conceptual Designs.

FISCAL INFORMATION: The total estimated cost of this project including the entire 51 mile stretch of the LA River is \$3,100,000. This portion which will focus on the Lower portion of the Los Angeles River which will not exceed \$500,000. As was stated earlier, there are matching funds for this work including a grant from the Santa Monica Mountains Conservancy in the amount of \$1,000,000 and philanthropic gifts totaling \$570,000. There is still an unfulfilled project costs totaling \$1,030,000. The cost breakdown is as follows:

Funding for this project will be allocated from the following Proposition 84 allocations.

75050. The sum of nine hundred twenty eight million dollars (\$928,000,000) shall be available for the protection and restoration of rivers, lakes and streams, their watersheds and associated land, water, and other natural resources in accordance with the following schedule:...

(g) The sum of seventy two million dollars (\$72,000,000) shall be available for projects within the watersheds of the Los Angeles and San Gabriel Rivers according to the following schedule:

(1) \$36,000,000 to the San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy pursuant to Division 22.8 (commencing with Section 32600).....

75060. The sum of five hundred forty million dollars (\$540,000,000) shall be available for the protection of beaches, bays and coastal waters and watersheds, including projects to prevent contamination and degradation of coastal waters and watersheds, projects to protect and restore the natural habitat values of coastal waters and lands, and projects and expenditures to promote access to and enjoyment of the coastal resources of the state, in accordance with the following schedule:.... (3) To the Rivers and Mountains Conservancy.....\$15,000,000.

LEGISLATIVE AUTHORITY AND RMC ADOPTED POLICIES/AUTHORITIES: Section 32602: There is in the Resources Agency, the San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy, which is created as a state agency for the following purposes:

- (a) To acquire and manage public lands within the Lower Los Angeles River and San Gabriel River watersheds, and to provide open-space, low-impact recreational and educational uses, water conservation, watershed improvement, wildlife and habitat restoration and protection, and watershed improvement within the territory.
- (b) To preserve the San Gabriel River and the Lower Los Angeles River consistent with existing and adopted river and flood control projects for the protection of life and property.
- (c) To acquire open-space lands within the territory of the conservancy.

Section 32604: The conservancy shall do all of the following:

- (a) Establish policies and priorities for the conservancy regarding the San Gabriel River and the Lower Los Angeles River, and their watersheds, and conduct any necessary planning activities, in accordance with the purposes set forth in Section 32602.
- (c) Approve conservancy funded projects that advance the policies and priorities set forth in Section 32602.

Section 32614.5:

- (a) The conservancy may award grants to local public agencies, state agencies, federal agencies, and nonprofit organizations for the purposes of this division.
- (b) Grants to nonprofit organizations for the acquisition of real property or interests in real property shall be subject to all of the following conditions:
 - (1) The purchase price of any interest in land acquired by the nonprofit organization may not exceed fair market value as established by an appraisal approved by the conservancy.
 - (2) The conservancy approves the terms under which the interest in land is acquired.
 - (3) The interest in land acquired pursuant to a grant from the conservancy may not be used as security for any debt incurred by the nonprofit organization unless the conservancy approves the transaction.
 - (4) The transfer of land acquired pursuant to a grant shall be subject to the approval of the conservancy and the execution of an agreement between the conservancy and the transferee sufficient to protect the interests of the state.
 - (5) The state shall have a right of entry and power of termination in and over all interests in real property acquired with state funds, which may be exercised if any essential term or condition of the grant is violated.

- (6) If the existence of the nonprofit organization is terminated for any reason, title to all interest in real property acquired with state funds shall immediately vest in the state, except that, prior to that termination, another public agency or nonprofit organization may receive title to all or a portion of that interest in real property, by recording its acceptance of title, together with the conservancy's approval, in writing.
 - (c) Any deed or other instrument of conveyance whereby real property is acquired by a nonprofit organization pursuant to this section shall be recorded and shall set forth the executory interest or right of entry on the part of the state.

Exhibit A: Tasklist and Timeline

Task	Deliverables	Approximate Completion Date
1	Basis of Design Testing	February 5, 2016
2	Data Acquisition and Analysis	March 4, 2016
3	Water Resources Research and Benefits Estimation	March 4, 2016
4	Initial Beta Tests and Econometrics	May 20, 2016
5	Public Engagement	July 29, 2016
6	Project Management	July 29, 2016
	Grant Close-out	December 30, 2016

Exhibit B: Budget**Lower LA River Integrated Design & Technical Analysis: \$500,000**

Lower LA River Integrated Design & Technical Analysis			
Task #	Deliverable	Budget	Completion Date
1	Basis of Design Testing	\$83,427.83	Week 4
2	Data Acquisition and Analysis	\$83,427.83	Week 8
3	Water Resources Research and Benefits Estimation	\$83,427.83	Week 8
4	Initial Beta Tests and Econometrics	\$105,716.51	Week 12
5	Public Engagement	\$94,000.00	Week 12
6	Project Management and Administration	\$50,000.00	Week 12
TOTAL		\$500,000.00	

Global Budget: \$3,100,000

Sources and Uses for 51-mile Integrated Design Vision*						
			<i>Committed</i>	<i>Anticipated</i>		
SOURCES		SUM	Philanthropic Gifts	Santa Monica Mountains Conservancy	Rivers and Mountains Conservancy	Sources To Be Determined
	Pledged/In Hand/Anticipated	\$ 3,100,000	570,000	1,000,000	500,000	1,030,000
100%	USES	SUM				
48%	Design & Engineering	\$ 1,501,700	-	667,422	333,711	500,567
11%	Public Engagement	\$ 354,289	75,000	188,000	91,289	
11%	Public Affairs	\$ 352,000	125,000		25,000	202,000
1%	Econometrics	\$ 44,578	-	44,578		
8%	Data Compilation	\$ 250,000	95,000			155,000
12%	Project Management	\$ 382,433	275,000			107,433
7%	Administration	\$ 215,000	-	100,000	50,000	65,000
* This is an anticipated budget, subject to change.						



Exhibit C: Technical Analysis Scope of Work

Board of Directors

Lower LA River Integrated Design and Technical Analysis Scope of Work

Brian Moore
Chair

Date: November 10, 2015

Harry B. Chandler
Vice Chair

To: San Gabriel & Lower Los Angeles Rivers and Mountains Conservancy

Christopher C. Rising
Treasurer

From: LA River Revitalization Corporation

Subject: Grant for Integrated Design & Technical Analysis

Stephen R. English
Secretary

BACKGROUND AND MOTIVATION:

LA River Revitalization Corporation (LARRC) has assembled a core technical team with Gehry Partners, OLIN Landscape, and Geosyntec with additional consultants to develop an integrated design and technical analysis of Lower LA River reaches for the purposes of creating a range of river interventions and multi-benefit capital improvement projects.

Allan Abshez
Member

Monica Dodi
Member

Cecilia Estolano
Member

Cynthia Hirschhorn
Member

Kristina Holly
Member

Howard Katz
Member

Jordan Kerner
Member

Dee Dee Myers
Member

Gary Ross
Member

Bruce Saito
Member

Mark Stanley
Member

Michael Strautmanis
Member

Daniel Tellalian
Member

Richard Weintraub
Member

Daphne Zuniga
Member

PROJECT DESCRIPTION:

The goal for this Scope of Work (SOW) is to develop an integrated design and technical analysis of Lower LA River reaches to yield recommendations for a range of river interventions/capital improvements based on design storm impacts and design process methodology that ultimately creates a unique identity and multi-use benefits for the 51-mile length of the LA River while maintaining flood control capacity. Preliminarily investigating Lower LA River general sites and conditions, including data gathering and developing a framework for obtaining more difficult data sets, will be the preparation for a more detailed analysis of intervention/capital improvement areas and water resource development within the Lower river in later phases of work.

SCOPE OF WORK – TASKLIST:

This Scope of Work covers Lower LA River reach deliverables to be completed in an approximate 12-week timeline to commence November 23, 2015, adjacent to the time spent towards analysis of the Upper LA River reaches through the Santa Monica Mountains Conservancy grant. With the inclusion of administrative activities in managing the reporting requirements and payment procedures, the duration of the grant will not exceed a 53-week timeline. The Rivers and Mountains Conservancy (RMC) grant will run from November 23, 2015 – December 31, 2016.

The support provided through the RMC grant allows the LA River Corporation to continue to leverage funds received towards the 51-mile river analysis and integrated design study. The activities and deliverables related to the Lower LA River, taking shape through this Grant, represents approximately 16% of the larger project budget for Phase One. Work performed in this first phase will become the foundation for future project phases and related Scopes.



Note: Lower LA River reaches include the following:

- Southeast Cities Reach
- Southern Cities Reach
- Estuary Reach (City of Long Beach-adjacent)

Task One – Basis of Design Testing

Objective

The primary objective of this task is to provide information on flow rate and stage within Lower LA River reaches to enable the design team to develop initial concepts, select an initial “functional flow rate” for each Lower LA River “Reach”, and select sites for more detailed evaluations across transparent criteria (or “Evaluation Criteria” such as flood control, water quality, water reclamation, recreation, public health, transportation, etc.). In addition, an understanding of capacity for Lower LA River reaches can assist in understanding which reach locations have sufficient capacity to convey the design flow and which reaches do not.

Activities

- Obtain historical flow rate and stage data of the Lower LA River from the USACE, LACFCD, the USGS, the City of LA, and other regional entities as available (through actual data collected or extracted from valid models).
- Evaluate Lower LA River reaches using flow and stage data and the USACE’s 1-D HEC-RAS model and/or 2-D HEC-RAS model (if obtained from the USACE) to identify an appropriate functional design flow rate and percent of time (e.g., 99%) that flow rate is less than the functional flow rate.
- Research design flow rates for Lower LA River reaches, FEMA flood maps, freeboard requirements, amongst other related research.
- Obtain as-built drawings for Lower LA River reaches.
- Compile the above information into an analysis to be performed in coordination with the USACE’s HEC-RAS model.
- Start attempts to test 1-D or 2-D HEC-RAS, if obtained, for intervention/capital improvement design flow rates and USACE design discharge.

Deliverables

- Analysis (report) of water surface elevation, average velocity, average shear stress, percent of time usable for three flow rates at Lower LA River reaches.
- Channel cross-section of Lower LA River showing WSE for up to three flow rates.
- Prepare for the 2-D HEC-RAS or possibly the 3-D model for the Lower LA River reaches
- Documentation of Basis of Design Testing that may include drawings, 3D models, and physical models at appropriate scale of Lower LA River reaches
- Determination of areas where channel banks do not have sufficient capacity to contain the design flow and create GIS mapping of these areas.

Task Two – Data Acquisition

Objective

The objective of this task is to obtain readily available data pertaining to water resources and land-use and other Evaluation Criteria, and develop a framework for how to obtain or create more difficult data (such as aging infrastructure) for later Phases. Begin to analyze GIS needs



for the development of a content management system (CMS) and to enable spatial prioritization of potential intervention/capital improvement locations within Lower LA River reaches.

Activities

- Obtain water resources and land-use data (e.g., GIS shape files) for Lower LA River reaches
- Develop a framework for how to obtain, develop, or create “difficult to obtain data” (e.g., aging infrastructure).
- Prepare for GIS data inclusion in future CMS that enables spatial prioritization of potential intervention/capital improvement locations within Lower LA River reaches with respect to water quality and water supply (recharge).
- Provide ecosystem services analysis for Lower LA River reaches.
- Determine Lower LA River reaches site improvement costs/site maintenance O&M analysis.
- Quantify public health benefit assessment including consideration of urban growth, public health and access to open space within Lower LA River reaches.
- Coordinate and supply ecosystem services and public health benefit datasets for future CMS.

Deliverables

- Water resource and land-use data and maps for Lower LA River reaches.
- Framework for how to obtain, develop, or create additional data.
- Produce GIS maps as data inclusion for future CMS.
- Compilation of ecosystem services data and analysis for Lower LA River reaches.
- Compilation of public health benefit data and analysis for Lower LA River reaches.
- Compilation of and analysis of site improvement costs/site maintenance data and analysis for Lower LA River reaches.
- Conduct precedent analysis, based off of data for Lower LA River reaches, of stewardship and management of arid river systems.

Task Three – Water Resources Research and Benefits Estimation

Objective

The objective of this task is to estimate and understand the volumes of water within the Lower LA River reaches originating in the tributary watersheds and entering the system from wastewater discharges, urban runoff, springs and seeps, and groundwater upwelling. Additionally, this task will explore the range of demands on the water within the Lower LA River reaches to determine how to address the increased need for local water supply.

Activities

- Develop water resource attributes and appropriate siting of such attributes for the Lower LA River reaches
 - Water quality enhancements for low flow conditions and potential intervention design flow conditions from tributary storm drains
 - Aquifer recharge opportunities within the Lower LA River reaches, with potential to divert flows
 - Analysis of surface/subsurface storage for non-potable direct use and potentially potable direct use within the Lower LA River reaches
- Develop a framework for how to obtain, develop, or create data not readily available.



- Obtain/develop water supply data for lands within the Lower LA River reaches (scaling up from readily available data may need to occur).
- Obtain/develop water demand data for lands within Lower LA River reaches (scaling up from readily available data may need to occur).
- Provide GIS data for future CMS to enable spatial prioritization of potential intervention/capital improvement locations with respect to water demand and supply.
- Develop an estimation of the realistic potential the Lower LA River reaches may provide to the region's water supply portfolio.
- Develop a framework for accurately calculating the realistic potential the Lower LA River reaches LAR may provide to the region's water supply for future Phases.

Deliverables

- "Summary Technical Memorandum"
- Framework for developing difficult data sets for future Phases.
- Framework for more accurate calculations for future Phases.
- Water resource maps for Lower LA River reaches.

Task Four – Initial Beta Tests and Econometrics

Objective

Based on "Basis of Design Testing" Task One, begin to narrow down locations within Lower LA River reaches to identify best approach to test design process methodology, including more detailed hydrology analysis. Demonstrate best approach to depict concept designs by offering programmatic definitions as solutions. Determine types of designs that would pass "do no harm" criteria with respect to the USACE design discharge, as well as function intended, like usable public space, up to the intervention design flow rate. Propose possible capital improvement recommendations based on beta test analysis, if applicable. Develop economic valuation methodology to analyze public benefits for evaluation criteria.

Activities

- Provide creative and hydraulic input approach for interventions/capital improvement designs.
- Determine best approach to implementing interventions as capital improvement recommendations (e.g., changes to channel shape, widening of low-flow channel, landscaping) into 1-D and/or 2-D model for selected Lower LA River reaches to be beta tested.
- Determine best approach to depict concept landscape designs for selected beta tested areas.
- Determine best approach to depict conceptual ecological habitat and pedestrian access profiles, based upon flood profile models.
- Determine needed engineering approaches in hydrologic, hydrodynamic, and hydraulic support for future concept designs of selected intervention/capital improvement sites within Lower LA River reaches.
- Explore available funding sources and suggested metrics for selected design interventions/capital improvements within the Lower LA River reaches to prepare approach to quantifiable community benefits and positive economic impacts.
- Quantify capital funding sources aligned with expected implementation costs based on per-acre benchmarks for similarly complex, infrastructure-intensive urban projects.



- Demonstrate best approach to depict concept designs for selected beta tested areas within Lower LA River reaches
- Demonstrate best approach to depict conceptual ecological habitat and pedestrian access profiles, based upon flood profile models, within Lower LA River reaches
- Demonstrate needed engineering approaches in hydrologic, hydrodynamic, and hydraulic support for future concept designs of selected intervention/capital improvement sites within Lower LA River reaches
- Proposed intervention/capital improvement ideas of designs for select locations within Lower LA River reaches.
- Documentation of initial beta testing thoughts for Lower LA River reaches that may include drawings, 3D models, and physical models at appropriate scale.
- Establish methodology for the econometric analysis of the benefits created by the Evaluation Criteria

Task Five – Public Engagement

Objective

Propose an engagement strategy (with timeline) for communities within Lower LA River reaches that builds a robust public dialogue around the vision for a seamless, iconic experience along the river. The citizens who live along the river in the Lower reaches – and the larger Los Angeles regional community – will be included in this revitalization process so that they feel a sense of ownership in its success. The engagement strategy can be built as a product of stakeholder input and create a process that fosters a two-way, engaging conversation with citizens, organizations and communities within the Lower LA River reaches.

Activities

- Undertake a landscape analysis of the types of engagement strategies that have and have not worked with similar projects nationwide.
- Under-go a data assessment of the population most impacted by the revitalization project within the Lower LA River reaches.
- Design several instruments, such as surveying, focus group and interview questions and programs for Lower LA River dialogues.
- Engage targeted key stakeholders and constituencies within Lower LA River reaches through possible efforts such as public opinion surveys, in-person interviews, one-on-one meetings and focus groups (multi-lingual approach required).
- Conduct public and stakeholder dialogues with members of the design and technical teams as needed.

Deliverables

- Launch engagement assessment for communities within Lower LA River reaches.
- Conduct Initial Outreach within Lower LA River reaches.
- Collect feedback/dialogue results received (online and offline) for further cultivation.
- Provide a baseline on where the communities within the Lower LA River reaches currently stand on the project overall, but, more importantly, how they would like to be engaged in the process, what mediums they find most useful, what messengers they trust, and how likely they would be to participate in various engagement tactics over the time needed to launch a public capital campaign/initiative
- Present 'Initial Findings Report' with lessoned learned, refined audiences personas and metrics identified to track our progress on desired outcomes.



Task Six - Project Management and Administration

Objective

Ensure project deliverables are completed on time and within budget by creating realistic project plans, estimating time and effort, and managing team coordination in an effective manner.

Consultant & Program Management

- Act as change control barrier for project and implement change control management system for core technical design and engineering team.
- Chair and minute weekly core technical design and engineering team meetings.
- Schedule follow up meetings and conference calls as necessary.
- Prepare summary reports of weekly progress to distribute to relevant Board members and committee chairs.
- Define PM needs for Phase 2.

Contract Management

- Guide and make recommendations regarding contracting relationships and structures.
- Guide and make recommendations regarding negotiating and executing agreements with consultants.
- Lead negotiation meetings as needed to execute final agreements with consultants.

Cash Flow Budget & Schedule Management

- Preparation of Master Cash Flow Budget & Schedule and management of core technical team to adhere to Master Cash Flow Budget & Schedule.
- Conduct budget cost management for and cost reporting on a weekly basis.
- Identify and assist with resolving technical, schedule, and/or budget issues that arise with the design tasks.

SCOPE OF WORK TASK TIMELINE:

Task #	Deliverable	DRAFT Approx. Completion Date
1	Basis of Design Testing	January 8, 2016 (considers holidays)
2	Data Acquisition and Analysis	February 5, 2016
3	Water Resources Research and Benefits Estimation	February 5, 2016
4	Initial Beta Tests and Econometrics	February 5, 2016
5	Public Engagement	March 4, 2016
6	Project Management	March 4, 2016



FISCAL INFORMATION:

(1) Scope of Work Budget

Lower LA River Integrated Design & Technical Analysis			
Task #	<i>Deliverable</i>	<i>Budget</i>	<i>Completion Date</i>
1	Basis of Design Testing	\$83,427.83	Week 4
2	Data Acquisition and Analysis	\$83,427.83	Week 8
3	Water Resources Research and Benefits Estimation	\$83,427.83	Week 8
4	Initial Beta Tests and Econometrics	\$105,716.51	Week 12
5	Public Engagement	\$94,000.00	Week 12
6	Project Management and Administration	\$50,000.00	Week 12
TOTAL		\$500,000.00	

(2) Global Budget

Sources and Uses for 51-mile Integrated Design Vision*					
		<i>Committed</i>	<i>Anticipated</i>		
		Philanthropic Gifts	Santa Monica Mountains Conservancy	Rivers and Mountains Conservancy	Sources To Be Determined
SOURCES					
	SUM				
	Pledged/In Hand/Anticipated	\$ 3,100,000	570,000	1,000,000	500,000
					1,030,000
100%	USES				
	SUM				
48%	Design & Engineering	\$ 1,501,700	-	667,422	333,711
11%	Public Engagement	\$ 354,289	75,000	188,000	91,289
11%	Public Affairs	\$ 352,000	125,000		25,000
1%	Econometrics	\$ 44,578	-	44,578	
8%	Data Compilation	\$ 250,000	95,000		
12%	Project Management	\$ 382,433	275,000		
7%	Administration	\$ 215,000	-	100,000	50,000
					155,000
					107,433
					65,000
* This is an anticipated budget, subject to change.					

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Exhibit D: Preliminary Conceptual Designs



Confluence to Sepulveda Basin Reach

Sepulveda Basin Reach

Sepulveda Basin to Barnham Blvd Reach

Glendale Narrows Reach (Arbor Reach)

Tujunga Wash Reach

Item 9

DIVERSIFYING THE PURPOSE OF THE LOS ANGELES RIVER

With the current 21st century environmental issues Los Angeles is facing as a region, it is logical to consider how to diversify the use of one of our most significant and underutilized pieces of infrastructure.

MULTI-USE CONDITION
 Dry Weather Flow
 90-95% OF TIME

CHANNEL USES TO BE CONSIDERED

- RETENTION / RECHARGE
- WATER QUALITY
- RECREATION
- LANDSCAPE
- PROGRAMMING
- ECOSYSTEM SERVICES



MULTI-USE CONDITION
 Less Than Functional Flow Rate
 4-9% OF TIME

CHANNEL USES TO BE CONSIDERED

- FLOOD CONTROL
- RETENTION / RECHARGE
- WATER QUALITY
- RECREATION
- LANDSCAPE
- PROGRAMMING
- ECOSYSTEM SERVICES



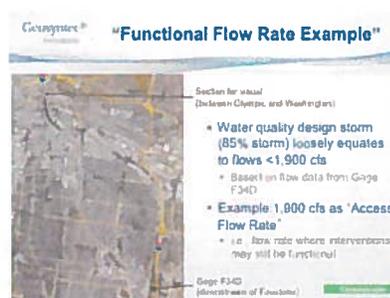
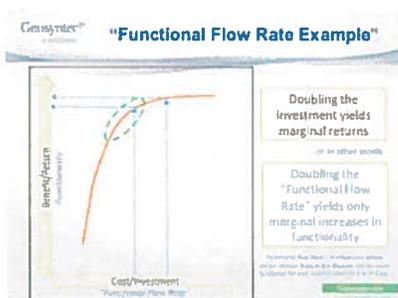
SINGLE-USE CONDITION
 Greater Than Functional Flow Rate
 1% OF TIME

CHANNEL USES TO BE CONSIDERED

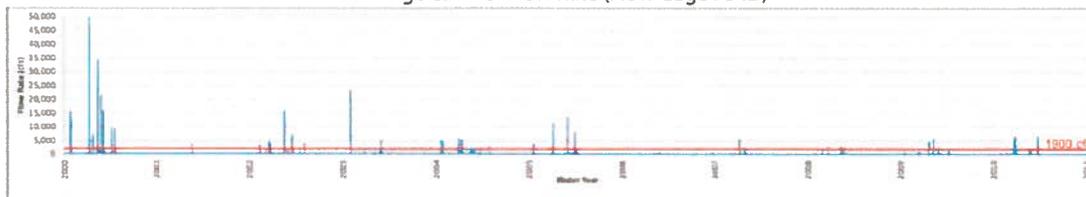
- FLOOD CONTROL



Functional Flow Rate = the flow rate where design interventions in the channel can be multi functional for each specific reach of the LA River.



Los Angeles River Flow Rate (Flow Gage F34D)



RESOLUTION 2015-23

November 23, 2015 – Item 9

RESOLUTION 2015-23

RESOLUTION OF THE SAN GABRIEL AND LOWER LOS ANGELES RIVERS AND MOUNTAINS CONSERVANCY (RMC) AUTHORIZING A GRANT TO THE LOS ANGELES RIVER REVITALIZATION CORPORATION FOR THE LOWER LA RIVER INTEGRATED DESIGN AND TECHNICAL ANALYSIS PROJECT (RMC15110)

WHEREAS, The legislature has found and declared that the San Gabriel River and its tributaries, the Lower Los Angeles River and its tributaries, and the San Gabriel Mountains, Puente Hills, and San Jose Hills constitute a unique and important open space, environmental, anthropological, cultural, scientific, educational, recreational, scenic, and wildlife resource that should be held in trust to be preserved and enhanced for the enjoyment of, and appreciation by, present and future generations; and

WHEREAS, The people of the State of California have enacted the California Clean Water, Clean Air, Safe Neighborhood Parks, and Coastal Protection Act of 2002 (Proposition 40), the Water, Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Proposition 50), and the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Proposition 84), which provides funds for the RMC grant program; and

WHEREAS, The San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy Board authorizes a grant agreement to the Los Angeles River Revitalization Corporation for the Lower LA River Integrated Design and Technical Analysis Project; and

WHEREAS, The RMC may award grants to local public agencies, state agencies, federal agencies, and nonprofit organizations for the purposes of Division 22.8 the Public Resources Code; and

WHEREAS, This action is exempt from the environmental impact report requirements of the California Environmental Quality Act (CEQA); and NOW

Therefore be it resolved that the RMC hereby:

1. FINDS that this action is consistent with the San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy Act and is necessary to carry out the purposes and objectives of Division 22.8 of the Public Resources Code.
2. FINDS that the grant is consistent with the California Clean Water, Clean Air, Safe Neighborhood Parks, and Coastal Protection Act of 2002 (Proposition 40), the Water, Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Proposition 50), and the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Proposition 84), which provides funds for the RMC grant program.

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- 3. FINDS that the actions contemplated by this resolution are exempt from the environmental impact report requirements of the California Environmental Quality Act.
- 4. APPROVES a project timeline for the Lower LA River Integrated Design and Technical Analysis Project from November 23, 2015- December 30, 2016.
- 5. AUTHORIZES a grant in the amount of \$500,000 to the Los Angeles River Revitalization Corporation for the Lower LA River Integrated Design and Technical Analysis Project (RMC 15110).
- 6. ADOPTS the staff report dated November 23, 2015.

~ End of Resolution ~

Passed and Adopted by the Board of the
SAN GABRIEL AND LOWER LOS ANGELES RIVERS AND MOUNTAINS
CONSERVANCY on November 23, 2015.

Motion _____ Second: _____

Ayes: _____ Nays: _____ Abstentions: _____

Frank Colonna, Chair

ATTEST: _____
Terry Fujimoto
Deputy Attorney General