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Dudek will produce a final GSP that incorporates comments on the administrative and draft GSPs. Dudek will provide the Yucaipa GSA with five (5) printed and bound copies of the final GSP, one (1) electronic copy of the Final GSP in Word format, and one (1) electronic copy of the final GSP in Web-ready PDF format.

**Outreach to Stakeholders**

It is assumed that there will be two (2) public outreach meetings. The first meeting will present the conceptual model, current conditions, historical water budget and historical safe yield. It will also explain SGMA requirements and the concept of sustainability meaning the avoidance of undesirable result. The second meeting will occur just prior to the release of the draft GSP for public review. It will provide an overview of the GSP, the estimated sustainable yield and projects envisioned to increase sustainable yield to meet future demands and the impacts of climate change.

**Outreach and Engagement Plan Development**

It is assumed that the outreach plan development will include an informal phone interview with each of the GSA members and both counties to discuss interested parties, stakeholder interests, GSA governance and decision making, current outreach practices and key outreach opportunities. One draft of the outreach and engagement plan will be prepared for GSA review and comment. After the GSA has commented, the outreach and engagement plan will be finalized

**Deliverables:**

- One (1) electronic copy of the draft Outreach and Engagement Plan
- One (1) electronic copy of the final Outreach and Engagement Plan

**Outreach and Engagement Plan Implementation**

Dudek will create a centralized public email address, mailchimp account and electronic newsletter template. The public email address will be used to collect stakeholder feedback and electronic newsletters will be sent to the entire list of interested parties on a roughly quarterly basis.

**Deliverables:**

- Eight (8) electronic newsletters.

**Develop Framework for Data Management System**

The first step in developing the system architecture for this Data Management System will be to meet with the Yucaipa GSA to confirm the needs, goals, and existing capabilities with respect to data management and analysis. While we provide our anticipated solution below as part of this scope (congruent with what we are implementing on other GSPs), it will provide the most long-term value to the Yucaipa GSA over the term of the GSP if we first develop a roadmap specific to this endeavor and tailor our tools to best fit the goals and workflows of this specific plan and the stakeholders involved.

The costs for this task are based on the following assumptions:

- The Yucaipa GSA uses and has access to the following software: Microsoft Windows Server, Microsoft SQL Server, and ESRI ArcGIS Enterprise (or ArcGIS Server and ArcGIS Online).
- Dudek will host the Data Management System database and user interface(s) during development, and we will deploy the solution to Yucaipa GSA infrastructure upon final delivery of the GSP. We could continue to host the Data Management System long-term for a nominal fee, should the Yucaipa GSA

prefer this approach. This hosting fee is calculated upon final delivery based on the server resource requirements of the solution, but is generally between \$2,000 and \$3,000 per year for low-traffic applications.

- The user interface would consist of up to three ESRI Web AppBuilder applications, serving as the primary user interface for the Data Management System (allowing map-based search and query of the data within the enterprise geodatabase). The three versions are assumed to be clones of each other (i.e., similar in design and scope), with each allowing different levels of access and functionality based on user permissions (e.g., Yucaipa GSA internal access, agency/stakeholder access, and public access). The applications will be built and customized using readily available configurable widgets; development of custom widgets would require an amendment.

**Meetings:**

- One (1) in-person kickoff meeting with the Yucaipa GSA and key stakeholders, to confirm the assist in the development of the Data Management System Technical Memo
- Two (2) remote demonstration/training meetings to review the user interface, the first being at 50% complete and the second being at 90% complete

**Deliverables:**

- One (1) electronic copy of the Data Management System Technical Memo
- One (1) electronic copy of the Data Management System User Guide
- One (1) ESRI enterprise geodatabase, populated with the current and historical data compiled during Task 2
- Up to three (3) ESRI Web AppBuilder applications
- Three (3) geoprocessing tasks (i.e., Python scripts) for enabling automated import of water quality data, water level data, and weather data, respectively, over the term of the GSP
- One (1) geoprocessing task (i.e., Python script) for quality assurance of data within the enterprise geodatabase over the term of the GSP
- One (1) geoprocessing task (i.e., Python script) for packaging data in the enterprise geodatabase into an exportable format (e.g., Excel), and enabling self-serve user exports from the Data Management System over the term of the GSP

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Task	DUDEK Labor Hours and Rates												TOTAL DUDEK HOURS	DUDEK LABOR COSTS	OTHER DIRECT COSTS	TOTAL FEE	
	Project Team Role:	PIC	Project Manager	Quality Control Manager	Principal Hydro-geologist	GIS Programmer I	Hydro-geologist V	Hydro-geologist II	Hydro-geologist II	Grant Funding Assistance/ Stakeholder Engagement		Publications					Publications
	Team Member:	P. Quinlan	S. Stuart	R. Schnabel	J. Weinberger	K. Harper	D. Ritter	N. Tucker	H. McManus	J. Gray	Z. Carlson	B. Golden-Harrell					T. Eaton
Billable Rate :	\$260	\$240	\$225	\$240	\$180	\$150	\$120	\$120	\$225	\$175	\$145	\$95					
1	USGS Groundwater Model	60	28				300	120					508	\$ 81,720		\$ 81,720	
2	Current and Historical Groundwater Conditions	5	8		46		96	60	100			4	319	\$ 48,440	\$ 1,000	\$ 49,440	
3	Plan Area Including Land Use		8		18		40	80	40				186	\$ 26,640		\$ 26,640	
4	Water Budget and Sustainable Yield	26	16		32		160	40					274	\$ 47,080		\$ 47,080	
5	Define Management Areas	16	8		24		80		20				148	\$ 26,240		\$ 26,240	
6	Define Undesirable Results, Minimum Thresholds, Measureable Objectives	28	16		80		80						204	\$ 42,320		\$ 42,320	
7	Identify Projects and Management Actions to Achieve Sustainability Goal	12	8	20	16								56	\$ 13,380		\$ 13,380	
8	Infiltration Testing		2	8									10	\$ 2,280		\$ 2,280	
9	Define Plan Implementation Actions	16	4		50			24					94	\$ 20,000		\$ 20,000	
10	Describe Existing and Planned Monitoring Network	4	20		16		96	96	40				272	\$ 40,400		\$ 40,400	
11	Develop Framework for Data Management System		16			180							196	\$ 36,240		\$ 36,240	
12	Draft and Final GSP	70	32		210		238	176				48	846	\$ 146,900	\$ 2,000	\$ 148,900	
13	GSP Submittal to DWR for Review and Approval		2		20								22	\$ 5,280	\$ 250	\$ 5,530	
14	Grant Administration		6							20	140		166	\$ 30,440	\$ 1,200	\$ 31,640	
15	Establish Governance of GSA - <b>Completed!</b>													\$ -		\$ -	
16	Develop and Implement Coordinated Outreach Plan		2		8						140		150	\$ 26,900		\$ 26,900	
17	Technical Advisory Committee Meetings (4)	72	72		72		20						236	\$ 56,280	\$ 7,550	\$ 63,830	
18	GSA Meetings (8)		96		28								124	\$ 29,760		\$ 29,760	
	Public Meetings (2)		40		40						40		120	\$ 26,200		\$ 26,200	
	Project Management		400										400	\$ 96,000		\$ 96,000	
	<b>Totals</b>	<b>309</b>	<b>784</b>	<b>28</b>	<b>660</b>	<b>180</b>	<b>1110</b>	<b>596</b>	<b>200</b>	<b>20</b>	<b>320</b>	<b>52</b>	<b>4,259</b>	<b>\$ 802,500</b>	<b>\$ 12,000</b>	<b>\$ 814,500</b>	