



WEST VALLEY WATER DISTRICT  
855 W. Base Line Road, Rialto, CA 92376  
PH: (909) 875-1804 FAX: (909) 875-1849

**SAFETY AND TECHNOLOGY COMMITTEE  
MEETING AGENDA**

**TUESDAY, MAY 11, 2021 - 6:00 PM**

**NOTICE IS HEREBY GIVEN** that West Valley Water District has called a meeting of the Safety and Technology Committee to meet in the District Headquarters, 855 W. Base Line Road, Rialto, CA 92376.

**Teleconference Notice:** In an effort to prevent the spread of COVID-19 (Coronavirus), and in accordance with the Governor's Executive Order N-29-20 and the order of the County of San Bernardino dated March 17, 2020, there will be no public location for attending this Committee Meeting in person. Members of the public may listen and provide public comment via telephone by calling the following number and access code: Dial (888)475-4499, Access Code: 840-293-7790 or you may join the meeting using Zoom by clicking this link: <https://us02web.zoom.us/j/8402937790>. Public comment may also be submitted via email to [administration@wvwd.org](mailto:administration@wvwd.org). If you require additional assistance, please contact the Executive Assistant at [administration@wvwd.org](mailto:administration@wvwd.org).

**BOARD OF DIRECTORS**

Director, Dr. Michael Taylor, Chair  
Director, Kyle Crowther

**I. CALL TO ORDER**

**II. PUBLIC PARTICIPATION**

*The public may address the Board on matters within its jurisdiction. Speakers are requested to keep their comments to no more than three (3) minutes. However, the Board of Directors is prohibited by State Law to take action on items not included on the printed agenda.*

**III. DISCUSSION ITEMS**

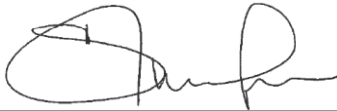
1. Update to Safety and Technology Committee
2. Update on the Tyler Incode 10 Inventory Control Module Implementation.
3. Update on the Transition to Spectrum.
4. Consider the proposed Sensus Warranty Settlement.

5. Update on the GIS/Incode Integration Project.
6. Fiscal Year 2021-2022 Budget Discussion

#### **IV. ADJOURN**

#### **DECLARATION OF POSTING:**

**I declare under penalty of perjury, that I am employed by the West Valley Water District and posted the foregoing Safety and Technology Committee Agenda at the District Offices on May 7, 2021.**



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**Lizett Santoro, Executive Assistant**



**BOARD OF DIRECTORS  
SAFETY AND TECHNOLOGY COMMITTEE  
STAFF REPORT**

**DATE:** May 11, 2021  
**TO:** Safety and Technology Committee  
**FROM:** Shamindra Manbahal, Interim General Manager  
**SUBJECT:** UPDATE ON THE TYLER INCODE 10 INVENTORY CONTROL  
MODULE IMPLEMENTATION.

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**BACKGROUND:**

West Valley Water District (the “District”) uses Enterprise Resource Planning (ERP) software to integrate many of its core business processes and functions into one system. At its September 6, 2018 meeting, the Board authorized staff to execute an agreement with Tyler Technologies (“Tyler”) to implement Incode 10 as a replacement for the old ERP. At its October 15, 2020 meeting, the Board of Directors authorized staff to contract with Tyler to implement the Inventory Control Module for Incode 10.

**DISCUSSION:**

The Inventory Control Module went live on 04/16/21 and the project is complete.

**FISCAL IMPACT:**

No additional fiscal impact. Funding for the Inventory Control Module was included in CIP project W18035.

**STAFF RECOMMENDATION:**

Receive and file.

Respectfully Submitted,

*Shamindra Manbahal*

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Shamindra Manbahal, Interim General Manager

SM:js



**BOARD OF DIRECTORS  
SAFETY AND TECHNOLOGY COMMITTEE  
STAFF REPORT**

**DATE:** May 11, 2021  
**TO:** Safety and Technology Committee  
**FROM:** Shamindra Manbahal, Interim General Manager  
**SUBJECT:** UPDATE ON THE TRANSITION TO SPECTRUM

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**BACKGROUND:**

West Valley Water District (“District”) currently contracts with AT&T for Fiber Internet Access, Trunking Service (PRI service for the VoIP telephone system), Plain Old Telephone Service (POTS) lines, and several cellular modems for telemetry. At its September 3, 2020 meeting the Board of Directors authorized staff to execute a service agreement with Spectrum Enterprise for most, but not all, of the current telcom services.

**DISCUSSION:**

A new fiber line and a fiber termination box were installed at the District headquarters on 02/16/21. The internet service equipment has been installed and has been in use since April. The transition for the PRI service occurred on April 26<sup>th</sup> and the project is complete.

**FISCAL IMPACT:**

Internet and telephone services are included in the FY 2021 Budget. An overall net reduction to the monthly expenses of approximately \$3,600 is anticipated. The total savings for the current fiscal year will depend on the timing of when the installation is completed, and services are fully transitioned.

**STAFF RECOMMENDATION:**

Receive and file.

Respectfully Submitted,

*Shamindra Manbahal*

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Shamindra Manbahal, Interim General Manager

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**BOARD OF DIRECTORS  
SAFETY AND TECHNOLOGY COMMITTEE  
STAFF REPORT**

**DATE:** May 11, 2021  
**TO:** Safety and Technology Committee  
**FROM:** Shamindra Manbahal, Interim General Manager  
**SUBJECT:** CONSIDER THE PROPOSED SENSUS WARRANTY SETTLEMENT

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**BACKGROUND:**

West Valley Water District, (“District”), uses an Automatic Meter Reading System, (“AMR”) to collect readings from customer meters. AMR systems transmit the meter readings from each meter to truck mounted devices. To extend battery life, the Meter Transmitter Unit, (“MXU”), normally operates in a standby mode until a signal is received from the truck mounted devices, which then wakes up the MXU and tells it to transmit the meter reading. Once it transmits the reading, it returns to the standby mode.

At its April 15, 2021 regular meeting, the Board of Directors approved the “Water Infrastructure and Technology Improvement Plan”. Priority 7 on the list was to implement an Advanced Metering Infrastructure System, (“AMI”). AMI enables two-way communication over a fixed network between the District and the metering endpoints.

**DISCUSSION:**

The District recently experienced a high number of MXU’s failing well before the end of their expected useful life. After investigating the issue, it was discovered that the manufacturer, Sensus, had not properly programmed the MXU’s to go into standby mode. Consequently, the batteries failed prematurely.

As the failures were occurring, the Meter Department staff worked quickly to replace them. They also worked with the manufacturer to identify the MXU’s that had not failed yet, but were part of the same manufacturing batches and therefore likely to fail soon. Those MXU’s were proactively identified and replaced. The cost associated with having Meter staff change the MXU’s is estimated below:

Labor hourly rate	\$62.78
Equipment hourly rate	\$31.00
Cost per hour	<u>\$93.78</u>
Average minutes per MXU change out	10
Average minutes drive time	15
Total minutes per MXU	<u>25</u>
MXU units	1,265
Total minutes reimbursable	31,625
Total hours reimbursable	<u>527.08</u>
Estimated costs to recover	<u><b>\$49,429.88</b></u>

Sensus has replaced the MXU’s at no cost. To compensate the District for the cost of changing the MXU’s, Sensus is proposing to provide a Sensus M400b FlexNet AMI Base station including installation at no charge. Staff did confirm through Aqua-Metrics, (third party company that provides support for Sensus products), that the base station is about \$35,000 and installation typically runs \$15,000. That total valuation of \$50,000 appears to be a fair and reasonable offset of the costs incurred by the District. In addition, it supports Priority 7 – AMI of the recently approved Water Infrastructure and Technology Improvement Plan.

**FISCAL IMPACT:**

Budget neutral. The value of the proposed AMI equipment and installation offset the cost incurred to replace the MXU’s.

**STAFF RECOMMENDATION:**

Staff recommends that this item be submitted for consideration, and that the Board of Directors approve this item and authorize the Interim General Manager to execute the necessary documents.

Respectfully Submitted,

*Shamindra Manbahal*

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Shamindra Manbahal, Interim General Manager

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**ATTACHMENT(S):**

1. Attachment A - Sensus Warranty Letter

# Attachment – A

Sensus Warranty Letter

637 Davis Drive  
Suite 400  
Morrisville, NC 27560 USA



April 5, 2021

Mr Bill Krueger  
West Valley Water District  
Rialto, CA

Dear Mr Krueger,

To follow up on our discussion, here is the written confirmation of our approach to resolve the warranty issue identified in some of the SmartPoint® modules operating in walk-by/drive-by mode within your service territory.

As your trusted partner, it's important to share that we are aware that some of the installed units have a higher probability of battery-life reduction within the specified product warranty period. We are also aware that you have used significant District labor inputs to replace units that have already failed in the field. We plan to take immediate corrective action to provide replacement products for those units and offset the associated costs you have already incurred, plus the cost of replacing any units still in the field that we have identified as vulnerable to the battery life issue.

Specifically, to fully satisfy the SmartPoint warranty issue, Sensus will:

- Provide 1,265 replacement SmartPoints to you at no cost, including shipping. This total consists of 1,123 units you have already sent at no charge and another 142 units that have been impacted with reduced battery life.
- Provide a Sensus M400b FlexNet AMI Base station including installation at no charge at a location identified as optimal by both parties as soon as practically possible.
- Utility agrees to provide the labor to change out the remaining 142 units in the field and absorb the costs internally for the units already replaced at no charge by Sensus.
- Utility will be required to purchase the one backhaul device and procure cell service for that unit. Chris Berg at Aqua Metric can advise you as to the specific device required.

Our plan is to deliver the remaining products and Base station as soon as possible. We continue to value you as a customer and appreciate your support as we work to resolve this issue.

Sincerely,

A handwritten signature in cursive script that reads "Tim Harriger".

Tim Harriger  
Vice President, Sensus North America Water



**BOARD OF DIRECTORS  
SAFETY AND TECHNOLOGY COMMITTEE  
STAFF REPORT**

**DATE:** May 11, 2021  
**TO:** Safety and Technology Committee  
**FROM:** Shamindra Manbahal, Interim General Manager  
**SUBJECT:** UPDATE ON THE GIS/INCODE INTEGRATION PROJECT

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**BACKGROUND:**

West Valley Water District (the “District”) uses Enterprise Resource Planning (“ERP”) software to integrate many of its core business processes and functions into one system. The District recently completed the implementation of a new ERP, Incode 10 from Tyler Technologies (“Tyler”). The District also uses a Geographic Information System (“GIS”), ArcGIS from ESRI. Integration of the two systems will enhance the District’s ability to conduct geographic analyses using current customer information. For example, when GIS is used to identify areas that may be impacted by planned maintenance activities, only the parcel information is available. That parcel information must be manually correlated to the information in Incode 10 to identify the current customers. This integration project will enable GIS to access information in Incode 10.

**DISCUSSION:**

The project was approved by the Board of Directors within the FY 2021 Budget. Staff developed the project scope of work and requested quotes from three (3) vendors. The results are summarized below:

ActiveG	\$22,925
Miller Spatial	\$12,000
NorthSouth GIS LLC	Declined to submit

When considering projects of this nature, the price should not be the only determining factor for selecting a vendor. Other factors such as experience in the industry and success with similar projects should be considered. In this case, staff is not able to justify the higher cost quoted by ActiveG. In fact, Miller Spatial has demonstrated success for this project at East Valley Water District, (which uses both Incode 10 and ArcGIS). Therefore, staff made the decision to move forward with Miller Spatial. This contract amount is within the Interim General Manager’s authority level and does not require Board approval.

**FISCAL IMPACT:**

No additional fiscal impact. Funding was included in the FY 2021 Budget for this project.

**STAFF RECOMMENDATION:**

Receive and file.

Respectfully Submitted,

*Shamindra Manbahal*

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Shamindra Manbahal, Interim General Manager

SM:js

**ATTACHMENT(S):**

1. Attachment A - ActiveG
2. Attachment B - Miller Spatial
3. Attachment C - NorthSouth GIS LLC

# Attachment – A

ActiveG



# Statement of Work

Response to West Valley Water District RFP - Tyler Incode 10 and GIS System Integration Project

4/6/2021

Rev. 0



1411 E University Drive  
Mesa, AZ 85203  
(480) 610-0839  
#

4/6/2021

Re: Request for Proposal for Tyler Incode 10 and GIS System Integration Project

Telat,

ActiveG is pleased to respond to this Request for Proposal for *Tyler Incode 10 and GIS System Integration Project* at West Valley Water District.

Thank you for the opportunity to respond to this RFP. Please see our response in the following pages.

We have the tools and skills to help you achieve your GIS data and process goals and look forward to working with you.

Sincerely,

A handwritten signature in black ink that reads "Andy Stewart". The signature is fluid and cursive.

Andy Stewart  
Managing Partner – ActiveG  
[andy.stewart@activeg.com](mailto:andy.stewart@activeg.com)  
(480) 610-0839 x100



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## ActiveG Overview

Ever since its formation in September 1997, ActiveG has been the leader in providing innovative, advanced spatial software solutions for companies, delivering complete integration of Geographic Information Systems (GIS) with asset and work management (CMMS/EAM) systems, via its [MapEngine™](#), [PowerSync™](#), and [Nash Workflows™](#) solutions, all release-ready for the latest Esri ArcGIS releases.

ActiveG specializes in keeping ArcGIS and enterprise asset management (EAM) data harmonized and synchronized and its products streamline the integration process, making it simple to manage and maintain, while delivering advanced visualization and improved asset management processes.

ActiveG performs CMMS/EAM/GIS integration for our clients in various industries throughout North America, such as Eastern Municipal Water District, Albuquerque Bernalillo County Water, Bay Area Rapid Transit, and Seattle Public Utilities.

ActiveG is a proud Esri Silver Partner.

## Assumptions & Conditions

1. Generally, work performed by ActiveG will be done remotely at the ActiveG offices and the client will provide ActiveG remote access to the required systems.
2. Meetings and team interaction will be conducted by web teleconference tools, such as GoToMeeting™ or Microsoft Teams.
3. Travel. For this proposal, we do not anticipate a travel requirement. Should travel be necessary and approved by the client, travel expenses will be billed at cost.
4. This cost estimate is valid for 90 days.
5. ActiveG Software and Services pricing is subject to change. Prices quoted here are effective for only the services specified in this statement of work and subsequent task authorizations under this SOW.

6. Costs stated here do not include taxes, travel costs, export/import fees, county/national/state/local licenses, or database/software licenses (database drivers, ODBC drivers, Oracle licenses, ESRI software/data licenses, ArcGIS licenses, etc.).

## Statement of Work

Per the RFP, the scope of work for the project will consist of the following:

Integrating the Tyler Incode 10 system with the West Valley Water District's ArcGIS system. This will allow the District to have access to Tyler information within ArcGIS-based applications that can be used for customer notifications and assist the field crews in getting customer/meter information through ArcGIS's desktop or tablet applications.

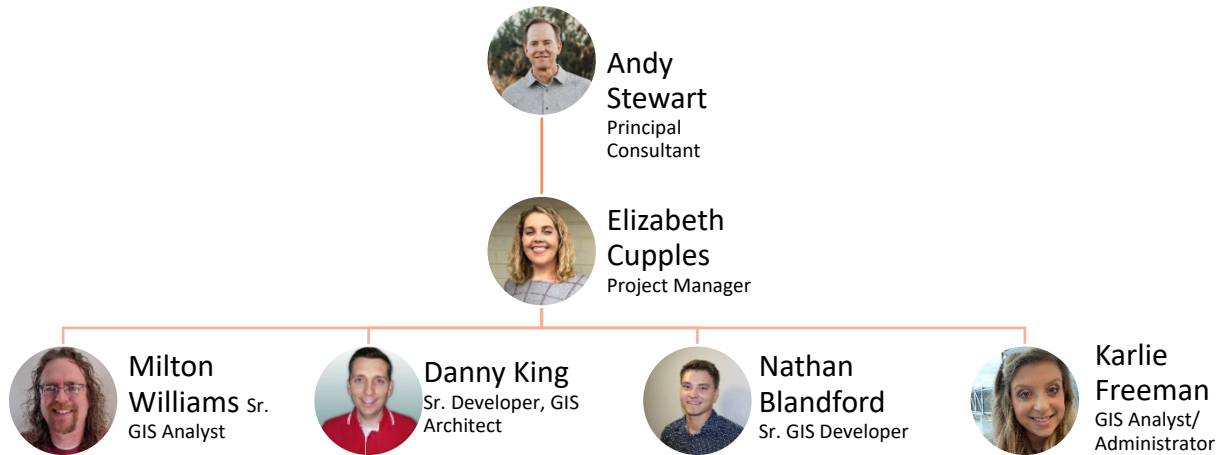
The scope of work includes the following tasks:

1. Update GIS Meters that currently have the old H.T.E. key to include the Tyler "ServiceAddress" field which will be used to link meters in Tyler. Meters in GIS that do not currently have an H.T.E key will be researched and updated to include the Tyler Service Address fields. Typical fields to be added to GIS: Customer Name, Phone Number, Site Address, Meter Number, Meter last read, last month's consumption, MIU number, and APN.
2. Create a script which will run nightly and update Tyler related fields in the GIS meters.
3. Update GIS Viewer application to include the new Tyler fields and allow searches on the Tyler "ServiceAddress" field.
4. Create a Meter Q&A Dashboard that will compare GIS meter Service Addresses to Tyler and identify record mismatches between Tyler and GIS. A test will also show accounts in Tyler that are not in GIS.

Besides these general requirements, ActiveG will do the following:

- 1. Project Planning**
  - a. ActiveG will hold a kickoff meeting with the customer to plan and organize the project, discuss detailed requirements, and explore options.
  - b. **Key Deliverable:** Detailed Requirements Document
- 2. Design, Development, and Testing**
  - a. ActiveG will work with the customer to determine the best method and options for integration and, once that is determined, build to the client specifications and test.
  - b. **Key Deliverables:**
    - i. Detailed Design Document
    - ii. Functional script for Tyler and ArcGIS
- 3. Production Rollout and Support**
  - a. Once developed and tested, ActiveG will roll out the solution in a production environment.
  - b. ActiveG will provide 2 weeks of support to the customer, during which time ActiveG will give best efforts to debug and fix any production issues.

## ActiveG Team Organization



## Fee Schedule

The following fee schedule is effective for Fiscal Year ending June 30, 2021.

Skill Level	Hourly Rate
GIS Analyst/ArcGIS Admin	\$82.50
Project Manager	\$82.50
Sr. GIS Analyst	\$100.00
Sr. GIS Developer	\$100.00
Principal Consultant	\$110.00
Sr. GIS Architect	\$125.00

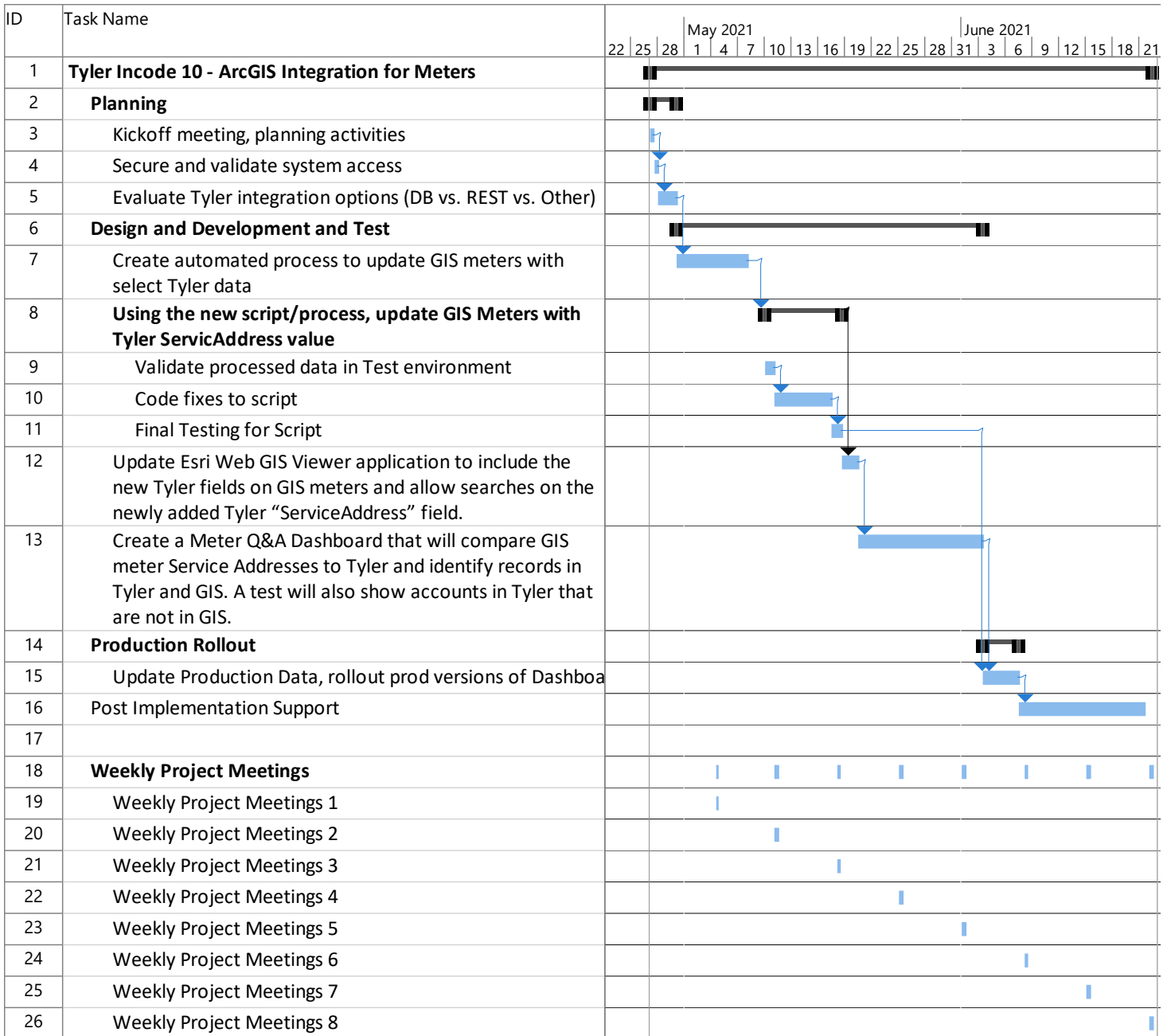
## Estimated Hours and Cost

The following is an estimate of the hours to complete the required tasks in this Statement of Work, by ActiveG role:

Resource Name	Estimated Hours	Hourly Rate	Estimated Cost
GIS Analyst/ArcGIS Admin	130	\$82.50	\$10,725.00
Project Manager	16	\$82.50	\$1,320.00
Sr. GIS Developer	80	\$125.00	\$10,000.00
Principal Consultant	8	\$110.00	\$ 880.00
<b>Totals</b>	<b>234</b>		<b>\$22,925.00</b>

## Sample Project Timeline

Below is a best guess at a project timeline. Actual timing may vary, depending on actual start, requirements, and unforeseen issues.





1411 E University Drive  
Mesa, AZ 85203  
(480) 610-0839  
#

## ActiveG Resumes



**Daniel King**  
**Sr. Software Developer/Architect**

Mr. King brings over 14 years of extensive software development experience including CMMS/EAM applications, GIS systems, marketing applications, and technical installations and configurations, relational database, and applied technologies for a variety of platforms and industries. He has 8 years of experience with in-depth functional and process background in integrating GIS applications with EAM/CMMS systems including: Esri ArcGIS, Hexagon (Intergraph) Geospatial, and more.

**Position Description:** Danny is the technical architect/developer of ActiveG MapEngine, a spatial integration plugin for IBM Maximo Asset Management. Full stack development (Java, JavaScript, Database)

### Relevant Experience

#### ***Sr. Software Systems Engineer, ActiveG, 2012 – Present***

Danny has been the technical ArcGIS integration lead on numerous projects, including:

*Bay Area Rapid Transit* – 2019-2020. Lead developer to integrate Maximo 7.6 with Esri ArcGIS. Developed capability to view linear work orders and linear asset specifications stored in Maximo within and ArcGIS-based map.

*Amtrak* – 2018-2019. Lead developer to integrate Maximo 7.6 with Esri ArcGIS. Developed capability to view Maximo linear work orders and linear assets in an ArcGIS-based straight line (schematic) view within MapEngine's map visualization.

*Seattle Public Utilities* – 2019-2020. Lead developer to integrate Maximo 7.5 and 7.6 with Esri ArcGIS. Developed capability to run spatial queries to return Maximo information via the integrated map. Integrated map visualization with Maximo Linear Asset Management.

### QUALIFICATIONS/SKILLS

- Esri ArcGIS JavaScript API
- IBM Maximo Spatial Asset Management
- SQL Server Database
- Oracle Database
- C#, JavaScript, Java
- Esri ArcGIS Server
- PL / SQL Development
- System Architectural Design
- R and SAS Statistical software
- Bachelor of Science, Statistics, Brigham Young University, 2005



**Lizzy Cupples**  
Project Manager

Ms. Cupples brings 6 years of technology customer assistance and training experience and 1 year of ArcGIS/EAM project management experience.

**Position Description:** Lizzy is a project manager at ActiveG, providing oversight and management of business and technical integration rollouts for Maximo/ArcGIS integration projects.

**Relevant Experience**

***Project Manager, ActiveG, Jan 2020 – Present***

Lizzy has been a Project Manager on several projects, including:

*Boardwalk Pipeline Partners, LLP – 2020.* Managed a team configuring Maximo Spatial data synchronization profiles for data synchronization between Maximo and ArcGIS, supporting point features and linear features. Documented requirements, managed resources, and owned successful project delivery.

*Seattle Public Utilities – 2020:* Managed a project is focused on simplifying the inspection collection process for water assets, as well as the ability to visualize inspection status of assets on a map, with work order integration in client’s EAM system. Documented requirements, managed resources, and owned successful project delivery.

*Albuquerque Bernalillo County Water Utility Authority – 2020:* Managed a project is focused on simplifying the inspection collection process for water assets, as well as the ability to visualize inspection status of assets on a map, with work order integration. Documented requirements, managed resources, and owned successful project delivery.

**QUALIFICATIONS/SKILLS**

- Certified Associate in Project Management (CAPM)
- Certified ScrumMaster (CSM)
- Survey123 for ArcGIS
- Bachelor of Science, Non-Profit Management, Brigham Young University, 2011
- Certificate, Project Management Mesa Community College, 2019



**Milton Williams**  
**Sr. GIS Systems Analyst**

Mr. Williams brings 15 years of experience as a spatially oriented asset designer and GIS integrations implementer including EAM applications, CAD, CAM, BIM, SCADA, Project Management, and enterprise inventory systems. He has 5 years of extensive EAM System-GIS Integration experience at ActiveG. Lead consultant on several EAM System-GIS projects, including GIS data sync for Portland General Electric, Spire Energy, Eastern Municipal Water District, City of Corpus Christi Texas, Amtrak, and Albuquerque Water Utility Authority.

**QUALIFICATIONS/SKILLS**

- ESRI ArcGIS
- Collector for ArcGIS
- IBM Maximo and Maximo MIF
- Autodesk Civil3d
- Bentley Microstation
- Maximo Spatial
- Python
- EPA AERMOD
- ClearSCADA Server
- SQL

**Position Description:** Milton is a senior GIS systems analyst/consultant at ActiveG, providing business and technical integration experience for EAM/ArcGIS integration projects.

**Relevant Experience**

***Sr. Systems Analyst, ActiveG, 2014 – Present***

Milton has been a Senior GIS Systems Analyst/Consultant on numerous projects, including:

*Boardwalk Pipeline Partners, LLP – 2020.* Configured and set up data synchronization profiles for data synchronization between EAM System and ArcGIS, supporting point features and linear features.

*Bay Area Rapid Transit (BART) – 2019-2020:* Lead system analyst successfully integrating Maximo 7.6 with Esri ArcGIS. Helped design BART’s linear asset model for rail assets.

*Amtrak – 2018-2019.* Lead systems analyst successfully integrating Maximo 7.6 with Esri ArcGIS. Automated the conversion of Amtrak’s geographic rail asset model into a schematic GIS feature class for use with Maximo.

*City of Corpus Christi Texas – 2014:* Developed custom conversion application that converts BIM data to GIS database formats and prepares data to be synced with IBM’s Maximo. Prepared integration of mobile GIS solutions with the IBM MIF.



**Nathan Blandford**  
**Sr. Software Developer**

Mr. Blandford brings of extensive EAM-GIS Integration experience, along with advanced software application development and testing skills.

**Position Description:** Nathan is lead developer of ActiveG PowerSync. Nathan has streamlined and improved ActiveG’s flagship data synchronization application, developing methods to configure asset synchronization profiles for spatial integration, processing data synchronization, and generating reports of synchronization status.

**Relevant Experience**

***Software Systems Engineer, ActiveG, 2017 – Present***

Nathan has been a Senior Software Developer on numerous ActiveG projects, including:

*Dallas Area Rapid Transit – 2020.* Configured IBM Maximo Spatial. Co-developed automation script to place asset coordinates in the proper spatial projection to support asset visualization in Maximo Spatial Asset Management.

*Spire Energy - 2018:* Lead spatial developer for EAM system integration with ArcIGS. Developed and upgraded several “widgets” to support map filtering, editing, drawing and more within an EAM environment.

*City of Corpus Christi, Texas - 2020:* Full-stack developer for ActiveG’s PowerSync, a web application with a Java backend used to intuitively sync data bidirectionally between Esri ArcGIS and the client’s CMMS.

*San Francisco Public Utilities Commission – 2018-2021.* Developed multiple versions of an embedded, offline-capable, ArcGIS-based map for a mobile work order management application, used by wastewater maintenance teams in the city.

**QUALIFICATIONS/SKILLS**

- Bachelor of Science in Computer Science, Arizona State University, 2017
- Android
- Bash
- CSS
- C#
- ESRI ArcGIS APIs
- Git
- iOS
- Java
- JavaScript
- MongoDB/Mongoose
- NodeJS
- Objective-C
- PHP
- Python
- SQL
- Xamarin





**Andrew Stewart**  
**Managing Partner/Principal**

Mr. Stewart brings over 20 years of information technology project experience. Andy has led or been a part of numerous enterprise application projects for companies such as Intel, Skullcandy, Seattle Public Utilities, Transport for London, and many more. Andy specializes in business process re-engineering, program and project management, and ArcGIS/EAM data integration. With 8 years of Maximo business and application experience, he has led numerous GIS/EAM integration efforts for ActiveG clients.

**Position Description:** Andy presently is the Managing Partner of ActiveG, responsible for general operations, business development, and product development

**Relevant Experience**

***Sr. Consultant, ActiveG, 2006 – Present***

Andy has been a Senior Consultant on numerous ActiveG projects, including:

*Albuquerque Water and Utilities: March 2013 – Nov 2020.* Led numerous projects to improve integration between ArcGIS and Maximo and improve asset management practices.

*Transport for London: March 2014 – January 2015.* Led project to integrate GIS and Maximo for the Piccadilly, Jubilee, and Northern rail lines of the London Underground.

*Seattle Public Utilities (SPU): June 2012 – March 2013.* Led project to upgrade SPU to the latest GIS integration for Maximo.

*Amtrak: 2010 – 2011.* Performed a variety of systems analysis and testing for Amtrak Maximo program, including data warehousing, GIS integration, and GPS data integration to Maximo.

*Amtrak: 2018.* Led project piloting the integration of Maximo linear asset management (track) data with ArcGIS linear visualization of work orders. Led the team that pioneered the creation of interactive track charts (schematic) view of Amtrak rail lines and work orders, integrated with Maximo.

**QUALIFICATIONS/SKILLS**

- Master of Business Administration, Arizona State University, 1994
- 11 years of experience managing SAP supply chain management software releases at Intel Corporation and others.
- 14 years of experience with IBM Maximo, EAM/CMMS, and Esri ArcGIS configuration and deployment.
- Oracle DB
- SQL Server DB
- ITIL Release Management



**Karlie Freeman**  
GIS Systems Analyst

Ms. Freeman brings 4.5 years of experience as a GIS analyst and administrator. She has extensive ArcGIS platform administration experience and has been the lead GIS analyst on several EAM-GIS projects in her short time at ActiveG.

**Position Description:** Karlie is a GIS systems analyst/consultant at ActiveG, providing business and technical integration experience for ArcGIS integration projects.

**QUALIFICATIONS/SKILLS**

- ArcGIS Desktop (4 years)
- ArcGIS Enterprise (Server and Portal) (2 years)
- ArcGIS Pro (4 years)
- AWS (2 years)
- GIS (4 years)
- PostgreSQL (2 years)
- Enterprise Software
- Python
- SQL
- ArcGIS Mobile Applications

**Relevant Experience**

***GIS Systems Analyst, ActiveG, February 2021 – Present***

Karlie is the lead GIS Systems Analyst/Consultant several ActiveG projects, including:

*Seattle Public Utilities (SPU)– 2021.* Configured and set up webmaps and data in the client’s Portal for ArcGIS system for enabling field inspections of water assets. Karlie owns the configuration of the mobile solution to support the clients’ needs. Configured ActiveG Nash Workflows for automating field data with SPU’s enterprise asset management system. She is supporting SPU by helping them evaluate Field Maps for ArcGIS and the migration away from legacy apps like Collector.

*Albuquerque Bernalillo County Water Utility Authority – 2014:* Configured and set up webmaps and data in the client’s Portal for ArcGIS system for enabling field inspections of water assets. Karlie owns the configuration of the mobile solution to support the clients needs.

*ActiveG Internal Portal for ArcGIS Administration.* Karlie set up and administers the ActiveG internal Portal for ArcGIS, which is utilized for research and development activities, as well as client demos. She oversees the administration of security, users roles, services, and data.

***GIS Manager, The Kelley Group, June 2018 to February 2021***

- Managed ArcGIS Enterprise for multiple client users
- Managed PostgreSQL database, creating views and database triggers with SQL in PostgreSQL
- Performed multiple ArcGIS Enterprise deployments over different environments including single in-house server deployment, GoDaddy single-server deployment, and AWS multiple-server deployment
- Created custom web apps using Web AppBuilder and Web AppBuilder for developers
- Created ArcGIS dashboards displaying project information to meet client needs
- Customized Survey123 forms to meet office and client needs
- Used Teraflex and Terasync to collect and process data Project set-up for use in ESRI Collector and Survey123

# Attachment – B

Miller Spatial

April 9, 2021

Mr. Telat Yalcin  
Geographic Information Systems Manager  
West Valley Water District  
855 West Baseline Road  
Rialto, CA 92377

Subject: Proposal for Tyler GIS Integration

Dear Telat,

This letter proposal is for integrating Tyler Incode 10 with the District's GIS system. This integration will allow the District. This will allow the District to have access to Tyler information within GIS applications that can be used for notifications and assist the field in getting customer/meter information without calling the office.

#### Scope of Work

The scope of work includes the following tasks:

1. Update GIS Meters that currently have the old H.T.E. key to include the Tyler ServiceAddress field which will be used to link the meters to Tyler. Meters in GIS that do not currently have an H.T.E key will be researched and updated to include the Tyler Service Address fields. Typical fields added the GIS include: Customer Name, Phone Number, Site Address, Meter Number, Meter last read, last month consumption, MIU number, and APN.
2. Create a script which will run nightly and update Tyler related fields in the GIS meters.
3. Update GIS Viewer application to include the new Tyler fields and allow searches on the Tyler ServiceAddress field.
4. Create a Meter QA Dashboard that will compare GIS meter Service Addresses to Tyler and identify record mismatches between Tyler and GIS. A test will also show accounts in Tyler that are not in GIS.

#### Cost Proposal

The total cost for this scope of work is **\$12,000**.

Thank you for considering Miller Spatial Services for your GIS needs. Please contact me if you have any questions or concerns.

Sincerely,



Bruce Miller

Founder | GIS Consultant



# Attachment – C

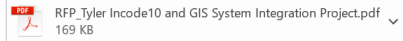
NorthSouth GIS, LLC



Telat Yalcin  
To 'Cassandra Gray'

Reply Reply All Forward

Wed 3/31/2021 9:01 AM



Good morning Cassandra,

I just want to update you on the 50 hrs. staff augmentation project that you provided a proposal for. Unfortunately, the District has decided to go with another proposal.

However, as we talked about before, the Tyler Incode 10 and GIS Integration project is the next project for the District. Please find the project information in the attached RFP document and submit your proposal at your earliest convenience.

I'll update you with the upcoming projects.

Regards,

**Telat Yalcin**  
*Geographic Information Systems Manager*

West Valley Water District  
855 W. Base Line Road | P.O. Box 920  
Rialto, CA 92377  
(909) 875-1804, ext 370  
(909) 543-9462  
[tyalcin@wvwd.org](mailto:tyalcin@wvwd.org)



\*\*\*AS A RESULT OF OUR OFFICE CLOSURE, I WILL BE TELECOMMUTING FROM A REMOTE LOCATION OUTSIDE OF THE DISTRICT'S HEADQUARTERS. PLEASE CONTACT MY CELL PHONE AT 909-543-9462 TO COMMUNICATE WITH ME DIRECTLY. I WILL STILL HAVE FULL ACCESS TO MY EMAIL FOR CORRESPONDENCE.\*\*\*