

# ***San Gorgonio Pass Water Agency***

**DATE:** November 6, 2023

**TO:** Board of Directors

**FROM:** Lance Eckhart, General Manager

**BY:** Matthew Howard, Operations Manager

**SUBJECT: Purchase and Installation of a Security and Monitoring Camera at the Brookside East Recharge Facility**

## **RECOMMENDATION**

The Board of Directors approves the purchase and installation of a security and monitoring camera at the Brookside East Recharge Facility from EarthCam for a total cost of \$37,574.

## **BACKGROUND AND ANALYSIS**

In early 2023, the Brookside East Recharge Facility experienced multiple incidents of vandalism, unauthorized entry, and trespassing. As a consequence of these occurrences, individuals from the public managed to breach our site's security fencing, granting them entry into the recharge facility, where they immersed themselves in the recharge water and placed partially artistic objects as an act of vandalism. Additionally, Staff has discovered several instances of the security fence along the Creekside perimeter of our facility being deliberately cut, allowing unauthorized access, and resulting in thousands of dollars in damages. These incidents have left the Agency facing a challenging situation in terms of the safety and security of the facility.

In light of these circumstances, Staff has undertaken a comprehensive assessment of different security measures aimed at preventing or minimizing the likelihood of such incidents from reoccurring. Staff contacted three major security camera companies, and obtained quotes for the particular style and capability of the camera that would fit the Agency's needs while providing additional value. Upon completion of an in-depth review, discussion, and interviews with each of the companies, it was determined that EarthCam provided the best possible camera and service that would fit the Agency's needs.

Staff has selected and is recommending the purchase and installation of an EarthCam ConstructionCam XIR security and monitoring camera located at the Brookside East Recharge Facility. The camera will be installed on a 30-foot mast to provide complete coverage of the Brookside East Recharge Facility, Noble Creek, and the future Brookside West Recharge Facility. The camera will be powered by a 525-watt solar power system, that includes sealed AGM batteries, solar panels, and an online power monitoring system. Data from the camera will be transmitted over the 4g wireless connection that will provide 24/7 live streaming video and recordings, AI smart object detection, photos, and panoramic photos that can be accessed by Staff at any time through EarthCam's website or via mobile application. Security video recording data that is collected by the camera will be stored on EarthCam servers for up to 60 days, while the photos are stored

indefinitely. The installation of the camera will be performed by EarthCam and is expected to take approximately 2 months to complete after we provide the notice to proceed.

The camera will serve as a valuable monitoring tool for Agency Staff, leading to significant time savings by eliminating the need for daily and weekend site visits. The camera will allow Staff to remotely monitor various aspects of the recharge facility, including pond levels, recharge rates, and maintenance activities. Additionally, it will provide security footage, photos, ongoing monitoring, and timelapse sequences documenting the construction progress of the future Brookside West Recharge Facility.

Furthermore, Agency Staff will be able to collaborate with the Beaumont Unified School District, City of Beaumont Police, Riverside County Flood Control, and other government entities that could benefit from the camera's capabilities. This includes recording and capturing photos during specific events near our recharge facility.

#### **AGENCY'S STRATEGIC PLAN APPLICATION:**

The purchase and installation of this security camera is consistent with the Agency's Mission Statement to support the region's quality of life through sustainable water management and with the following strategies:

- Serve the public with dedication, determination, transparency, collaboration and a commitment to expanding knowledge.

#### **FISCAL IMPACT**

The total cost for the purchase, installation, and two years of monitoring of this camera for the Brookside East Recharge Facility is \$37,574. The purchase will be allocated to different budget categories. Both categories are part of the FY 2023-24 General Fund Budget.

The equipment and installation portion of the invoice is about \$25,000, and will be charged to 'Other Equipment' in the Major and Capital Expenditures portion of the budget. This line item has a budget of \$20,000 for the year, and nothing has been expended at this time. This line item would be over budget when this expenditure is approved. No further capital expenditures for the installation of the camera would be expected in the future.

The monitoring portion of the invoice is about \$13,000 for two years of monitoring. This would be charged to 'Utilities' under Administrative and Professional Services. Only half of this cost would be charged this fiscal year. This would exceed the budgeted amount of \$8,000 by about \$7,500. Next year's budget would be increased appropriately to include the on-going monitoring expense.

Overall, the projection for the year-end balance for the FY23-24 is expected to add about \$500,000 to reserves. These expenditures would lower the projected balance by about \$12,500, but the reserves would still increase.

**ACTION**

The Board of Directors approve the purchase and installation of a security and monitoring camera at the Brookside East Recharge Facility from EarthCam for a total cost of \$37,574.

**ATTACHMENT:**

1. EarthCam Proposal for a ConstructionCam XIR Camera with Associated Solar Power and Communication System

**Matthew Howard Howard**  
**San Gorgonio Pass Water Agency**

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**Project: Recharge Facility Monitoring**



CAMERA SYSTEMS	Quantity	Price	Total
<b>ConstructionCam XIR</b> <i>(4G Wireless Data Service)</i>	1	\$6,995	\$6,995
<b>525-Watt Solar Power System</b> <i>(ConstructionCam XIR)</i>	1	\$6,295	\$6,295
<ul style="list-style-type: none"> <li>• Smart online power monitoring, analytics and alerts</li> <li>• Maintenance-free sealed AGM batteries</li> <li>• 24 hour runtime in Solar Zone-4A</li> </ul>			
<b>Jobsite Weather Station</b>	1	\$895	\$895
<b>Heavy Duty Mount - Top of Pole</b>	1	\$99	\$99
<b>Heavy Duty Pole Mount Adapter</b>	1	\$0	Included
<b>Free Standing Mast - 30'</b>	1	\$0	Included
<b>NPRM Ballast Concrete Blocks</b>	40	\$0	Included

JOBSITE SERVICES	Quantity	Price	Total
<b>Certified Installation Service - Premium w 30 ft mast - Robotic (2 yrs)</b> <i>(ConstructionCam XIR)</i>	1	<del>\$10,500</del> \$7,995	\$9,490
<b>Pre-installation Site Survey</b>	1		Included
<b>Lift Rental - up to 40 foot high</b>	1		Included
<b>Lift Rental - up to 40 foot high</b>	1		Included

MANAGED SERVICES	Quantity	Price	Total
<b>Live Streaming Software Support and Archiving Service</b> <ul style="list-style-type: none"> <li>• Multiple archiving every 5 minutes &amp; daily auto-generated panoramas</li> <li>• Project Management Integration (Autodesk, CMiC, Procore, Raken, Salesforce)</li> <li>• On-demand AI-edited time-lapse video with music &amp; on-screen graphics</li> </ul>	(24 mos) 1	<del>\$975</del> \$575	\$13,800
<b>Security Video Recording - 60 days</b> <ul style="list-style-type: none"> <li>• Fully encrypted end-to-end continuous recording</li> <li>• Timeline interface for easy access to download events</li> <li>• Smart object detection events</li> </ul>	1		Included

<b>Mast Assembly Service</b>	1		Included
<b>Website Development and MP Image Integration</b>	1		Included
<b>Multi-layer Panorama - Monthly</b>	(24 mos) 1	\$0	Included

<b>Live Weather Service</b>	(24 mos)	<b>1</b>	\$0	Included
<b>Full Service Support Package</b>		<b>1</b>		Included
<i>(Dedicated Customer Service &amp; Technical Support, Unlimited Software Training)</i>				

Preferred Customer Discount: \$21,110

**Total \$37,574**

Available Options:

-  Rentals
-  Multi-project discounts
-  Insured installation
-  Solar power upgrades
-  360° Photography
-  Aerial Imagery

Your Account Manager:

**[Joseph Streko](#) (201) 488-1111**

Date Generated: 10/10/23. This proposal is confidential and valid for 15 days. All prices are quoted in US Dollars. While EarthCam, Inc. will endeavor to meet the customer's desired delivery date, no shipment date can be scheduled until after order is accepted by EarthCam, Inc. Payment in full must precede acceptance, which may be made by cash, cleared check, Fed wire, ACH or major credit card. All sales are final. All orders and services are subject to force majeure. All services shall automatically renew for successive one (1) month periods and continue until customer shall provide thirty (30) days written notice of termination to EarthCam, Inc. Any and all liability arising out of products or services included in this proposal, however or whenever arising, shall not, under any and all circumstances, exceed the actual payments received by EarthCam, Inc. in connection therewith or one month's service fee, whichever is less. In no event shall EarthCam, Inc. be liable for any special, incidental or consequential damages. Lifetime camera warranty for active software subscribers. Additional parts covered under standard 1 year manufacturer warranty.

## ConstructionCam XIR - Extreme IR night vision for jobsite security

Ideal for large projects — typically 12 months or more — where tall/wide area coverage with live streaming, continuous video recording and panorama archiving is required.



To Download Specifications, [click here](#)

Our All-Inclusive Services Include:

aconex AUTODESK® BIM 360® PlanGrid PROCORE RUBICON triax®

- Multi-Project Dashboard
- User-Controllable PTZ
- 30x Optical Zoom
- Daily 360° Panoramas
- AI-Edited Time-Lapse Videos
- Automatic Day and Night
- Data Dashboard
- Continuous Video Recording
- Instant Live Snapshot
- Cross Platform Flexibility
- Hassle-free Upgrades
- Secure HTTPS Compliant
- Markup and Filtering Tools
- Email, Save and Share

[Click to Buy Now](#)



and we'll send a confirmation email to get started with your order.



Your camera will be shipped via ground for free. Expedited shipping is available.

## Customer Service and Technical Support

Our reliable and dedicated team will provide you with responsive customer service from start to finish.



24/7 Full-Service Support



EarthCam University Unlimited Training



Live Chat Online Help Desk



Highly Rated & Accountable



Certified & Trusted



Satisfaction Guaranteed









Our advanced Trouble Ticket System enables our technicians to respond even quicker and more effectively to your inquiry. You can also utilize the Live Chat feature to connect with a support specialist online and discuss any questions you have about your camera.

## Certified Installation and Insurance

EarthCam provides a worldwide network of qualified installers and on-site technical support.



Service includes fully insured, certified EarthCam technicians and field maintenance engineers to perform a pre-installation site survey, deliver AOV engineered drawings, fully assemble and install all hardware including solar equipment. Also, precise levelling and shot approval, full functionality verification and cleanup. Dedicated Technical and Client Services support. Plus lift rental, mast assembly, ballast weight and additional lift rental, on location maintenance service and priority dispatch of an EarthCam Technician to your site.

-  Pre-installation Consultation
-  Insured, Qualified Technicians
-  Dedicated Technical Support
-  AOV & Best Camera Placement
-  Flexible Hours
-  Nationwide Coverage

*\*Customer to provide all necessary/required lifts, ladders, scaffolding, etc. to safely access the mounting location of the system during installation and service calls. Additional terms and conditions may apply. To view details [click here](#).*

**Thank you!**

We appreciate your business and, more importantly, we want you to be a satisfied customer.  
If you have any questions, please contact me at [jstreko@earthcam.com](mailto:jstreko@earthcam.com).

To view our Frequently Asked Questions visit: [www.earthcam.net/FAQ](http://www.earthcam.net/FAQ)



# Consider Purchase And Installation Of A Security And Monitoring Camera At The Brookside East Recharge Facility

Board of Directors Meeting

November 6, 2023





# Why Do We Need a Camera at Our Facility?

## Security

Recent occurrences of break-ins and damage to fences serve as a discouragement

## Ongoing Monitoring

Increase efficiency, trips needed to ponds, and remote monitoring saves time and money

## Future Construction Monitoring

Brookside West Recharge Facility construction will be occurring over the next several years

## *Potential Community Benefit*

*Unit can also monitor intersection, creek, park, and local school facilities*



# Why Do We Need a Camera at Our Facility?



# Camera Selection Process

- Staff contacted three major security camera companies
- Received 3 quotes and provided demos of each of their products

Company	Camera + Solar + Cellular	Installation Fee	Total Cost	Ongoing Monthly Fee
EarthCam	\$13,290	\$7,995	\$23,774	\$575
Company B	\$8,729	Based on Job walk	~18,800	\$299
Company C	\$12,998	Staff to purchase and install Camera	~23,000	\$454



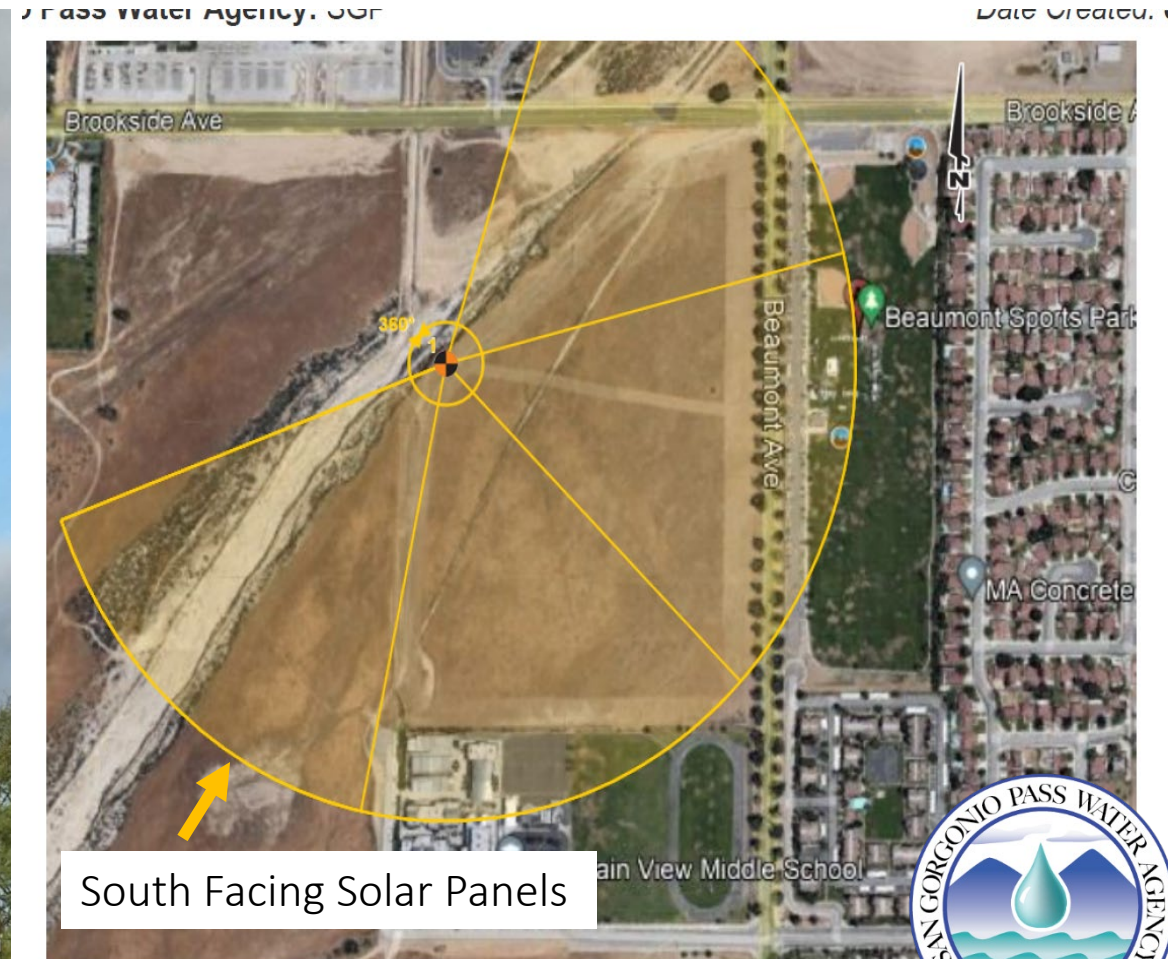
# EarthCam's XIR Camera

## EarthCam XIR

- 360-degree live stream video IR Camera
- Solar power and cellular package
- Full backup cloud storage for video and panorama support
- Phone app for easy accessibility
- Turn Key Option – included installation
- Programmable Timelapse photos
- Weather station that can be embedded video/photos and on our website



# Camera Installation at Brookside East



South Facing Solar Panels



# Camera Installation at Brookside East



# Staff Recommendation

The Board of Directors approve the purchase and installation of a security and monitoring camera at the Brookside East Recharge Facility from EarthCam for a total cost of \$37,574

