



DATE: January 10, 2019

TO: Council Airport Committee

FROM: Interim Director of Public Works

SUBJECT: Update on the Sulphur Creek Mitigation Design Project

RECOMMENDATION

That the Council Airport Committee (CAC) reviews and comments on the information provided in the staff report.

SUMMARY

The FAA determined that a portion of Sulphur Creek traversing Hayward Executive Airport poses a potential safety hazard to aircraft that may veer off runways in an emergency or for other reasons. The preferred solution is to enclose the open channels of the creek in box culvert and grade the areas immediately surrounding the channels.

This three-phase project is now in the second phase - project design. The consultant for this phase, Kimley-Horn, was approved by Council on July 24, 2018, and the grant for this project from the FAA was also accepted in the same action. After full execution of the agreement in early September 2018, the following tasks were completed:

- Geotechnical studies;
- Topographical surveys;
- Biologist review of project site, and
- Initiation of the permitting process through the Army Corps of Engineers, Regional Water Quality Control Board, and the California Department of Fish and Wildlife.

BACKGROUND

A portion of Sulphur Creek crosses Hayward Executive Airport and flows to the San Francisco Bay. As noted in Attachment II, approximately 412 feet of the creek flows in an open channel on the airfield within the Runway Safety Areas of runways 10L/28R and 10R/28L. This poses a potential safety hazard in the event an aircraft veers off the runway pavement due to loss of

directional control. Under these circumstances, the aircraft could impact the open channel with the possibility of significant damage to the aircraft and injury to its occupants.

In 2007, the FAA Runway Safety Action Team (RSAT) highlighted this potential safety issue. Airport staff subsequently contacted the FAA Airports District Office in San Francisco (SFO-ADO) and determined this project would be eligible for federal grant funding under the Airport Improvement Program (AIP).

By early 2016, the first phase of the project, which included an environmental assessment and 25% design, was completed by RS&H consultants. On July 24, 2018, the City Council authorized the execution of a professional services agreement with Kimley-Horn for project design, and the agreement was fully executed in September 2018.

DISCUSSION

The purpose of a Runway Safety Area (RSA) is to provide a prepared surface in the turf area surrounding a runway to reduce damage in the event of an aircraft undershoot, overshoot, or excursion from the runway. Enclosing the open channels in the Runway 10L/28R and 10R/28L Runway Safety Areas, and then grading the immediate area, will provide important safety benefits for Airport users. This project will be completed in three phases. The first phase consisted of an Environmental Assessment and preliminary design, with NEPA documentation for this phase approved by the FAA in May 2016. The next two phases include a California Environmental Quality Act (CEQA) review, and then construction. Staff estimates a total of \$3.7 million for the remaining two phases of the project.

Since the agreement execution in early September, the following tasks have been completed:

Geotechnical Studies

During the week of September 24, subconsultants performed six bores near the open sections of Sulphur Creek to collect and analyze soil samples. The results will help develop site grading recommendations and geotechnical design parameters for foundations, retaining structures, and pavement areas.

Topographical Survey

In early October, a topographical survey was conducted as well as a utility analysis of the project sub-areas.

Biologist Review of Project Site

A biologist was retained to determine if there has been a change in wetlands since the Environmental Assessment was completed in 2016. The biologist determined that creek conditions within the project area have not changed.

Permitting

Since this project involves creek wetlands and wildlife, special regulatory permits are required through the United States Army Corps of Engineers (ACOE), Regional Water Quality Control Board, and California Department of Fish and Wildlife. This process is complex. Kimley-Horn met with both airport staff and the FAA to discuss the best approach to secure the permits and approvals from the ACOE.

ECONOMIC IMPACT

Construction activities would contribute to the local economy.

FISCAL IMPACT

The Design Phase project costs are as follows:

Professional Services	\$444,000
Administration	<u>\$156,000</u>
TOTAL:	<u>\$600,000</u>

The cost for the design phase of the project, which is fully encumbered in the Adopted FY 2019 Capital Improvement Program (CIP), will be reimbursed through grants from the FAA, covering 90% of the actual cost. The other 10% would be provided by the Airport through its capital improvement project fund.

STRATEGIC INITIATIVES

This agenda item is a safety and maintenance-related item and does not directly support any of the three Strategic Priorities.

SUSTAINABILITY FEATURES

The Airport is committed to developing projects that are environmentally responsible. Therefore, staff will ensure that all plans proposed by the consultant incorporate features that are in line with the City's sustainability guidelines.

PUBLIC CONTACT

The Council Airport Committee (CAC) discussed the Sulphur Creek project during CAC meetings held on April 23, 2015, and April 28, 2016. In cooperation with City staff, the consultant has prepared a public outreach plan to include key messages, core audiences, and public involvement activities to support the development and release of the draft design. The public outreach plan ensures that interested members of the public, including the Airport pilot community, have an opportunity to provide input, that the interests of participants will be communicated to decision makers.

NEXT STEPS

Complete CEQA Documentation and Final Design
Begin Construction
Complete Construction

April 2019
April 2020
July 2020

Prepared by: Doug McNeeley, Airport Manager

Recommended by: Alex Ameri, Interim Director of Public Works

Approved by:



Kelly McAdoo, City Manager