

Ted Stevens Anchorage International Airport - East Airpark Storm Drain **FY2011 Request:** \$4,000,000
Reference No: 49097

AP/AL: Allocation **Project Type:** Construction
Category: Transportation
Location: Anchorage Area-wide **Contact:** Christine Klein
House District: Anchorage Area-wide (HD 17-32) **Contact Phone:** (907)269-0724
Estimated Project Dates: 07/01/2010 - 06/30/2015
Appropriation: Airport Improvement Program

Brief Summary and Statement of Need:

Construct storm drain from East Airpark and connect to Postmark Drive storm drain to redirect drainage that currently flows into Lake Hood and Lake Spenard to Knik Arm. Storm drainage collected from apron areas contains glycol which negatively impacts water quality in the lakes. If the project is not completed, ANC will experience continued, and likely more stringent future restrictions on deicing in east airpark as well as continued closures of aircraft operations on the lakes. This project contributes to the Department's Mission by reducing injuries, fatalities and property damage and by improving the mobility of people and goods.

Funding:	<u>FY2011</u>	<u>FY2012</u>	<u>FY2013</u>	<u>FY2014</u>	<u>FY2015</u>	<u>FY2016</u>	<u>Total</u>
Fed Rcpts	\$4,000,000						\$4,000,000
Total:	\$4,000,000	\$0	\$0	\$0	\$0	\$0	\$4,000,000

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Additional Information / Prior Funding History:

None.

Project Description/Justification:

Construct lift station and storm drain to collect water from east airpark that currently flows into Lake Spenard. Direct water to existing lift station along West 50th Avenue. Replace pumps in existing lift station to accommodate additional flow. Construct force main from existing lift station along South Aircraft Place, International Airport Road, and Postmark Drive into existing storm drain north of DeHavilland Avenue. Install diversion structure near existing outfall into Lake Hood to allow storm drain runoff to flow into lakes during summer flows to keep lake level up.

Storm water discharges from Concourse A and East Airpark aircraft parking positions currently flow into Lake Spenard. Lake Hood and Lake Spenard are on the list of impaired water bodies for dissolved oxygen (DO). The airport discharges into the lakes negatively impact the lakes DO levels.

Limited diversion is being done using a GRV (Glycol Recovery Vehicle). On good years, the GRV can recover over 50% of the glycol that would normally flow to the lake. However, the current water body recovery plan states that at least 90% must be diverted from the lake to ensure the lakes

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recover and maintain water quality standards. There is no treatment or recycling of glycol at this time. Storm drain discharges during winter months flow onto the lake ice causing operational closures.