



## Windmill Creek Regional Pond W – 4 Status Update

SEMSWA Board Meeting  
January 23, 2008



## Today's Presentation

- Background
- Existing Condition Discharges
- Pond W – 4 Alternatives
- Costs
- Recommendation

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## Background

- Windmill Creek has been exceeding Master Planned discharges for about 5 years due to the regional detention deficit
- The Master Planned regional Pond W – 4 was designed in 2006
- The Pond W – 4 construction cost is \$1.5M
- Proposed developments are delayed due to lack of regional detention (3 developments in near future)

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## Existing Conditions Discharges

<u>Location</u>	<u>Master Planned/ Allowable Discharge</u>	<u>Existing Discharge</u>
1) Broncos Parkway	338 cfs	598 cfs
2) Arapahoe Road	966 cfs	1091 cfs
3) Cherry Creek State Park	1144 cfs	1235 cfs

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## Pond W – 4 Alternatives

- Construct Phase 1 Pond
  - 5 AF – Discharges still above Master Plan flows but three additional developments don't make problem worse
  - 15 AF – Discharges meet Master Plan with three additional developments
- Construct Pond W – 4 as designed (23.5 AF)

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## Alternative Discharges

<u>Location</u>	<u>Master Planned/ Allowable Discharge</u>	<u>Existing Discharge</u>	<u>5 AF Pond Discharge*</u>	<u>15 AF Pond Discharge*</u>
1	338 cfs	598 cfs	502 cfs	338 cfs
2	966 cfs	1091 cfs	1069 cfs	928 cfs
3	1144 cfs	1235 cfs	1207 cfs	1093 cfs

- 1) Broncos Parkway
- 2) Arapahoe Road
- 3) Cherry Creek State Park

\* Includes three additional developments

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## Costs

5 AF Pond	\$251,000 - \$371,000*
15 AF Pond	\$310,000 - \$567,000*
Entire Pond	\$1,500,000

- \* Earthwork costs \$2/CY - \$10/CY  
Lower cost if adjacent Centennial Airport land takes dirt

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## Discussion & Questions

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