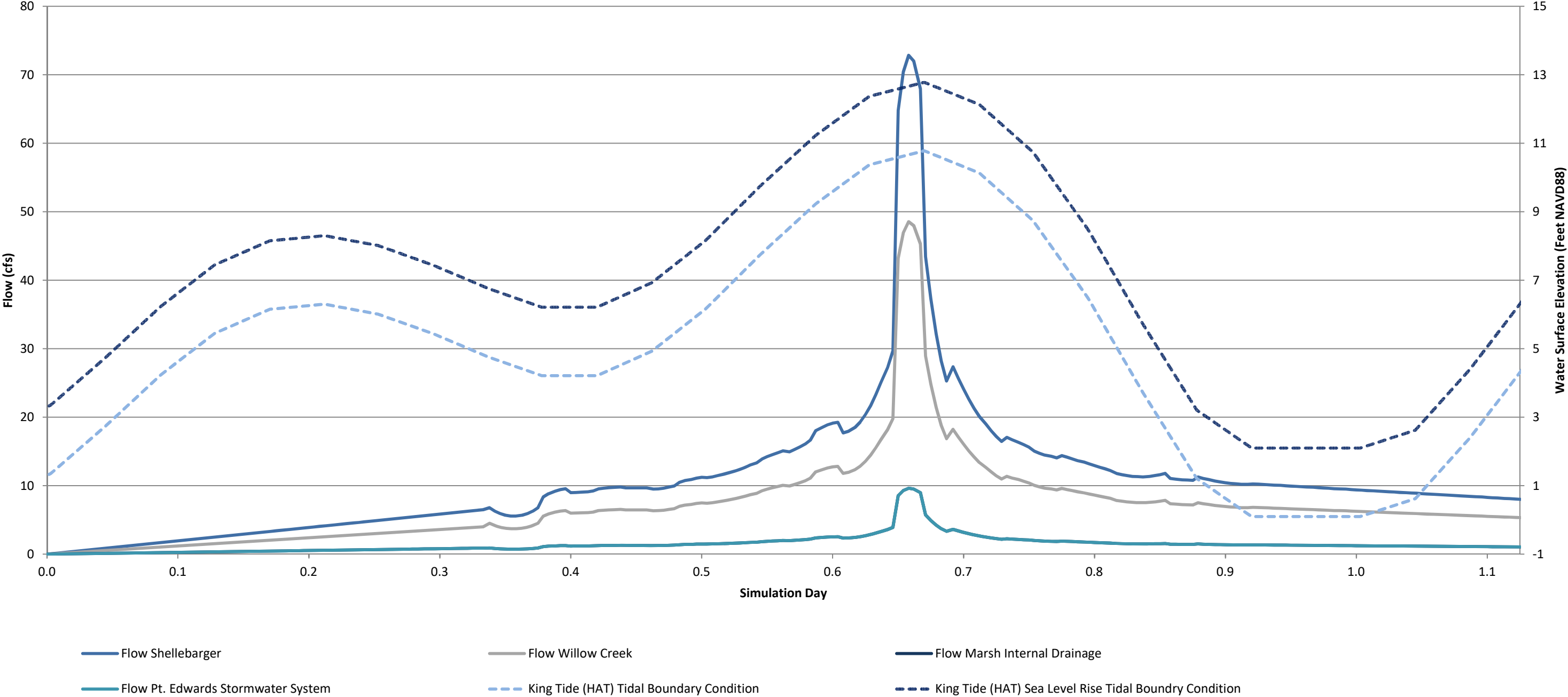
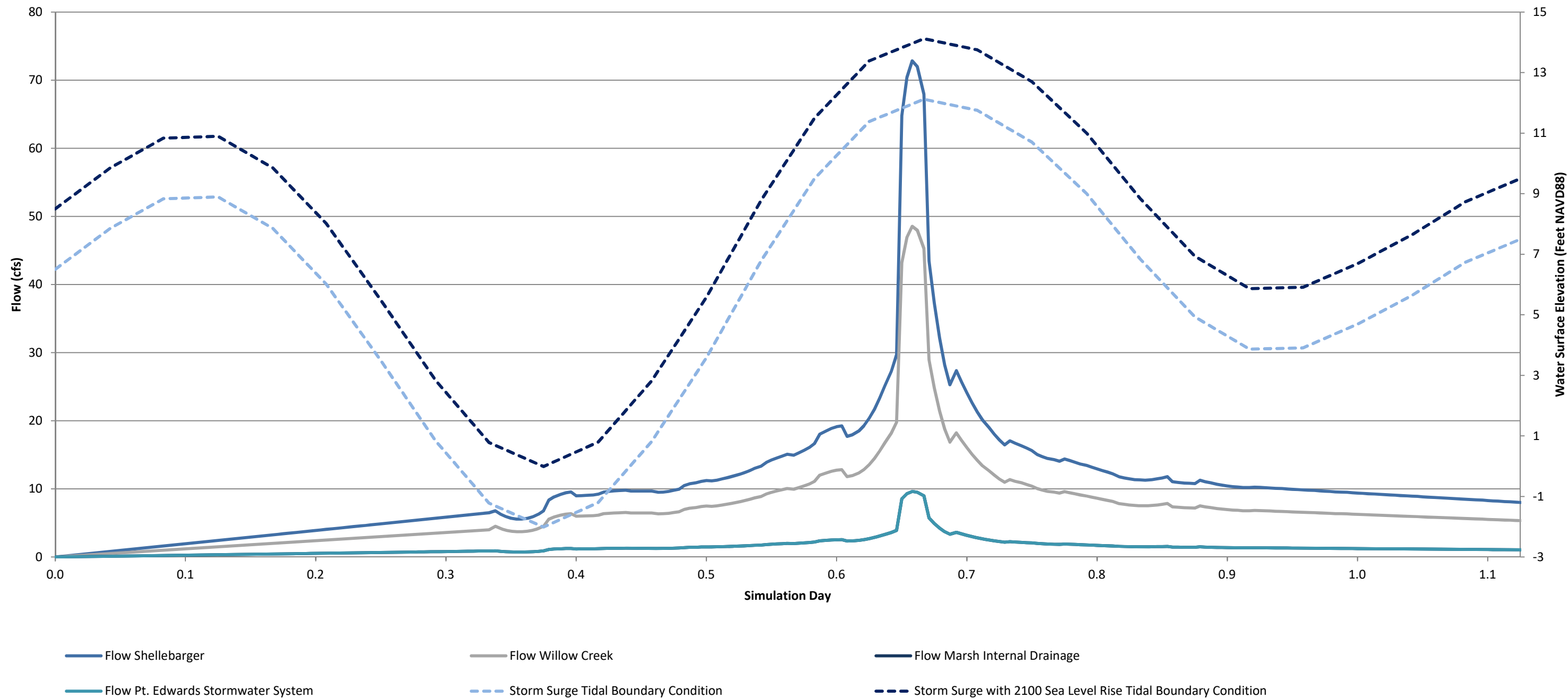


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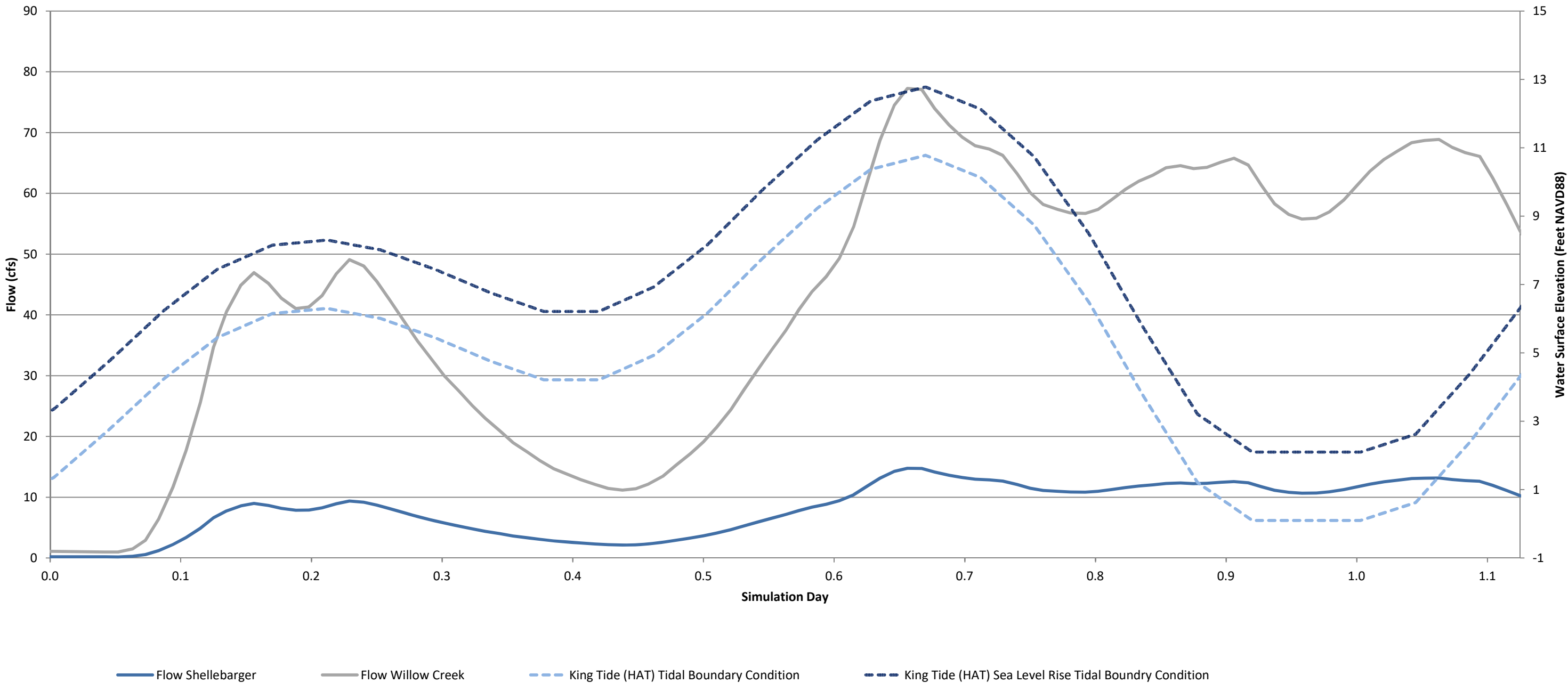
WILLOW CREEK DAYLIGHT PROJECT EXPANDED MARSH CONCEPT DESIGN AND HYDRAULIC MODELING EDMONDS, WA	
1% (100-YR) AEP SAIC STREAM FLOOD HYDROGRAPHS AND KING TIDE/KING TIDE WITH SEA LEVEL RISE TIDAL BOUNDARY CONDITIONS	
June 2019	21-1-12588-050
SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	FIG. 11A

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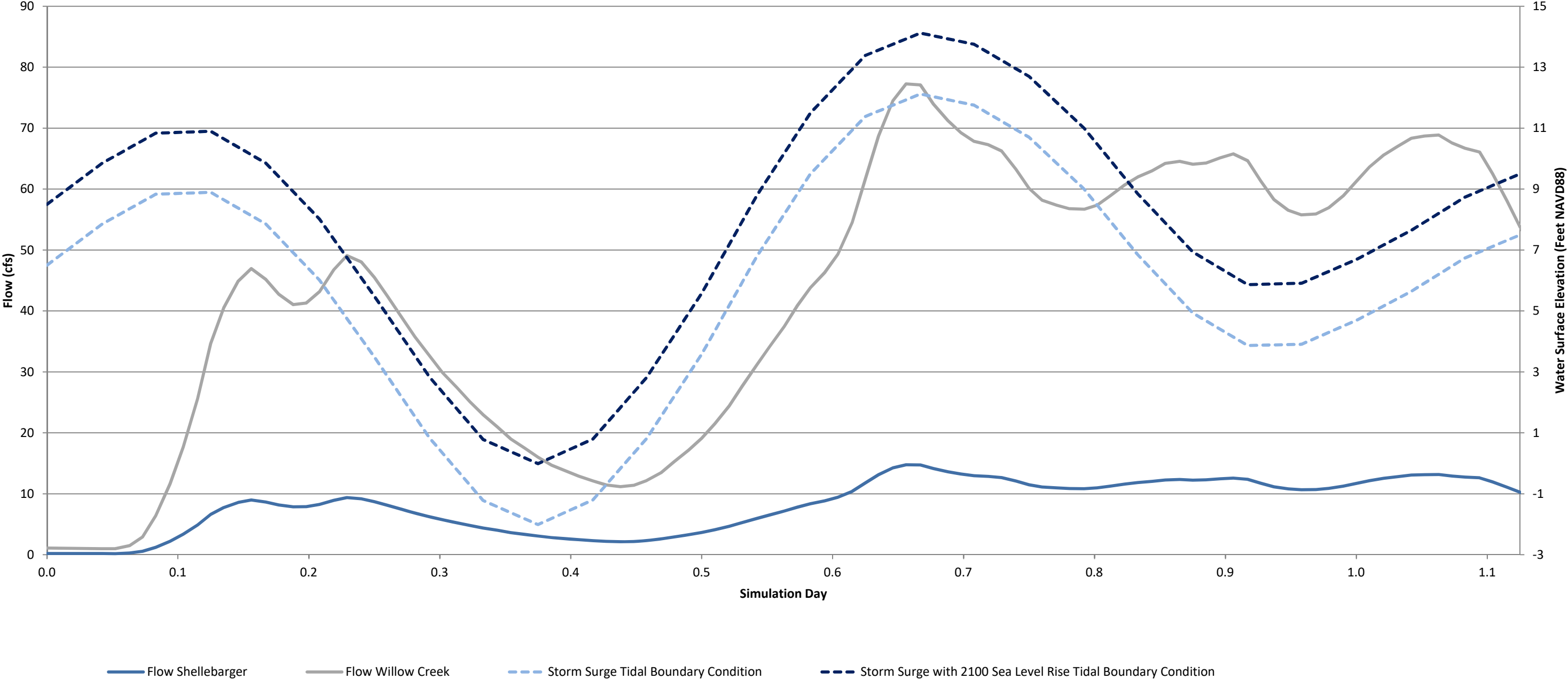
WILLOW CREEK DAYLIGHT PROJECT EXPANDED MARSH CONCEPT DESIGN AND HYDRAULIC MODELING EDMONDS, WA	
1% (100-YR) AEP SAIC STREAM FLOOD HYDROGRAPHS AND STORM SURGE/STORM SURGE WITH SEA LEVEL RISE TIDAL BOUNDARY CONDITIONS	
June 2019	21-1-12588-050
SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	FIG. 11B

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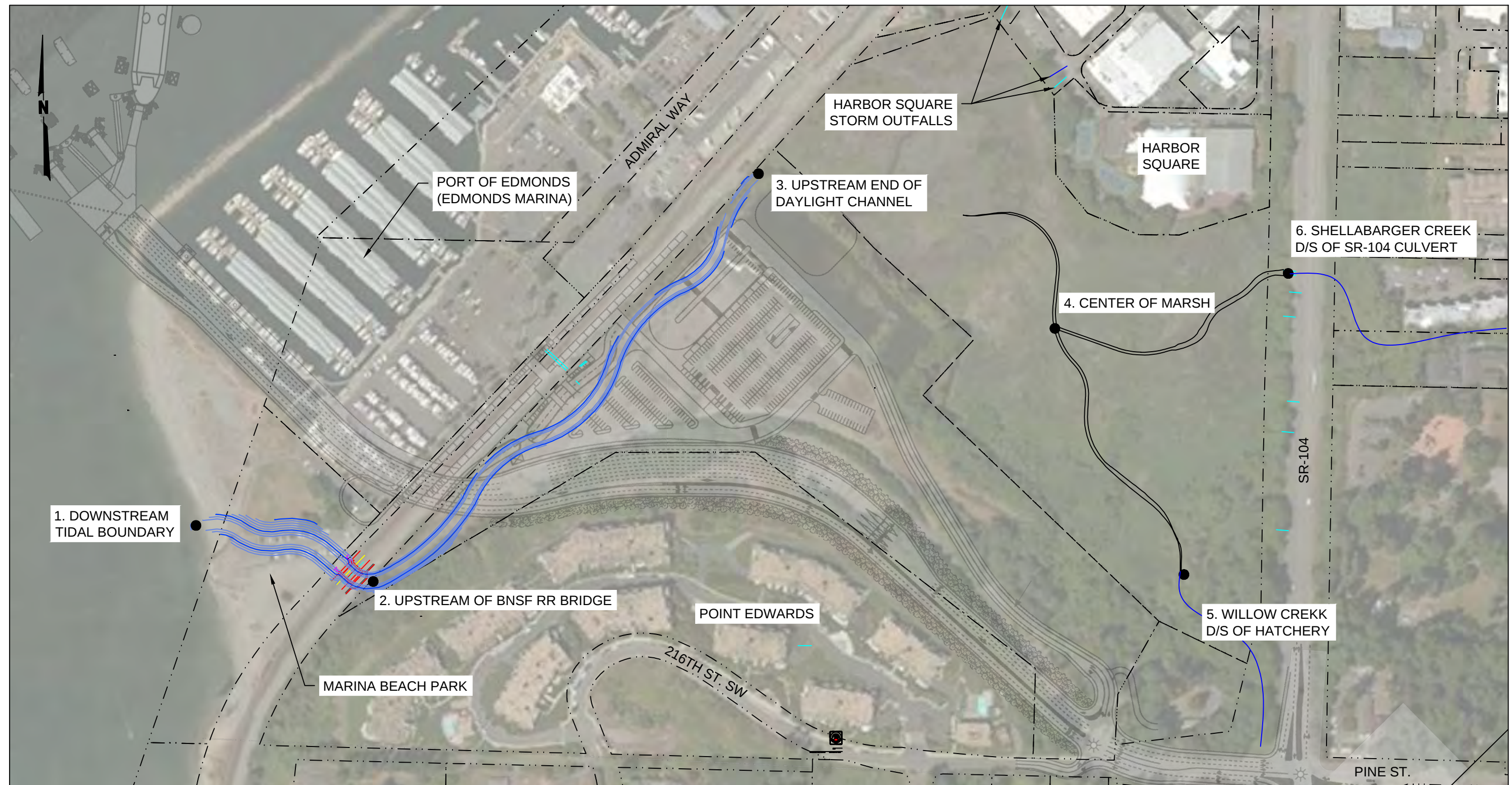


WILLOW CREEK DAYLIGHT PROJECT EXPANDED MARSH CONCEPT DESIGN AND HYDRAULIC MODELING EDMONDS, WA	
1% (100-YR) ANCHOR-QEA STREAM FLOOD HYDROGRAPHS AND KING TIDE/KING TIDE WITH SEA LEVEL RISE TIDAL BOUNDARY CONDITIONS	
June 2019	21-1-12588-050
SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	FIG. 12A

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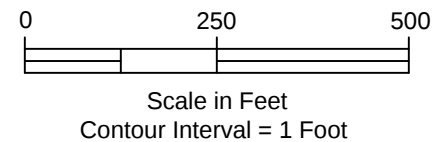


WILLOW CREEK DAYLIGHT PROJECT EXPANDED MARSH CONCEPT DESIGN AND HYDRAULIC MODELING EDMONDS, WA	
1% (100-YR) ANCHOR-QEA STREAM FLOOD HYDROGRAPHS AND STORM SURGE TIDE/STORM SURGE WITH SEA LEVEL RISE TIDAL BOUNDARY CONDITIONS	
June 2019	21-1-12588-050
SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	FIG. 12B



LEGEND

- PROPOSED DAYLIGHT CONTOUR
- · - · - SNOHOMISH COUNTY GIS PARCELS
- MODELING NODE



WILLOW CREEK DAYLIGHT PROJECT
EXPANDED MARSH CONCEPT DESIGN
AND HYDRAULIC MODELING
EDMONDS, WASHINGTON

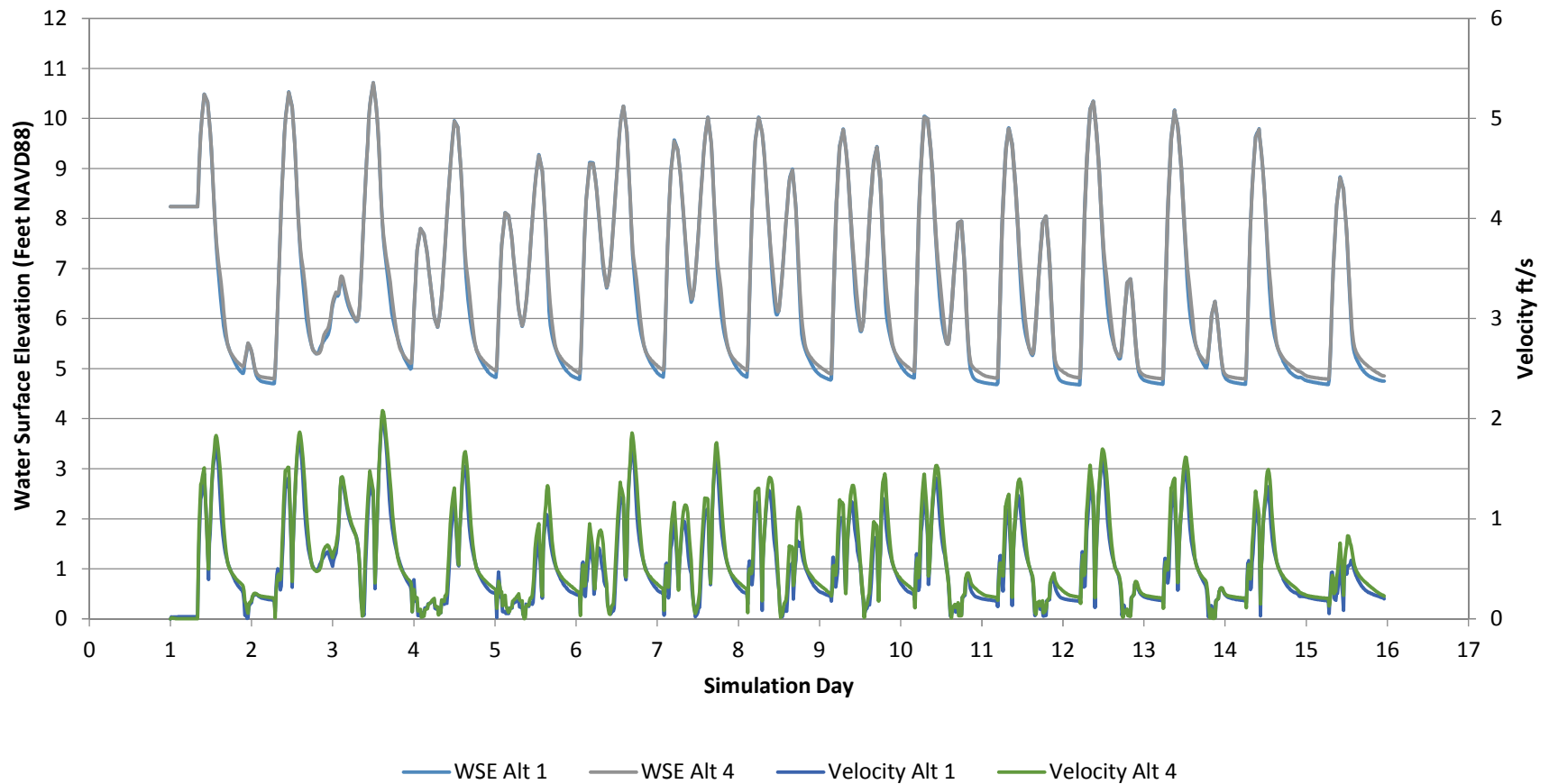
MODELING NODES

June 2019

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FIG. 13



WILLOW CREEK DAYLIGHT PROJECT
EXPANDED MARSH CONCEPT DESIGN AND
HYDRAULIC MODELING
EDMONDS, WASHINGTON

**100 Year Flood Water Surface
Elevation and Velocity
Node 2 - Upstream of BNSF Bridge**

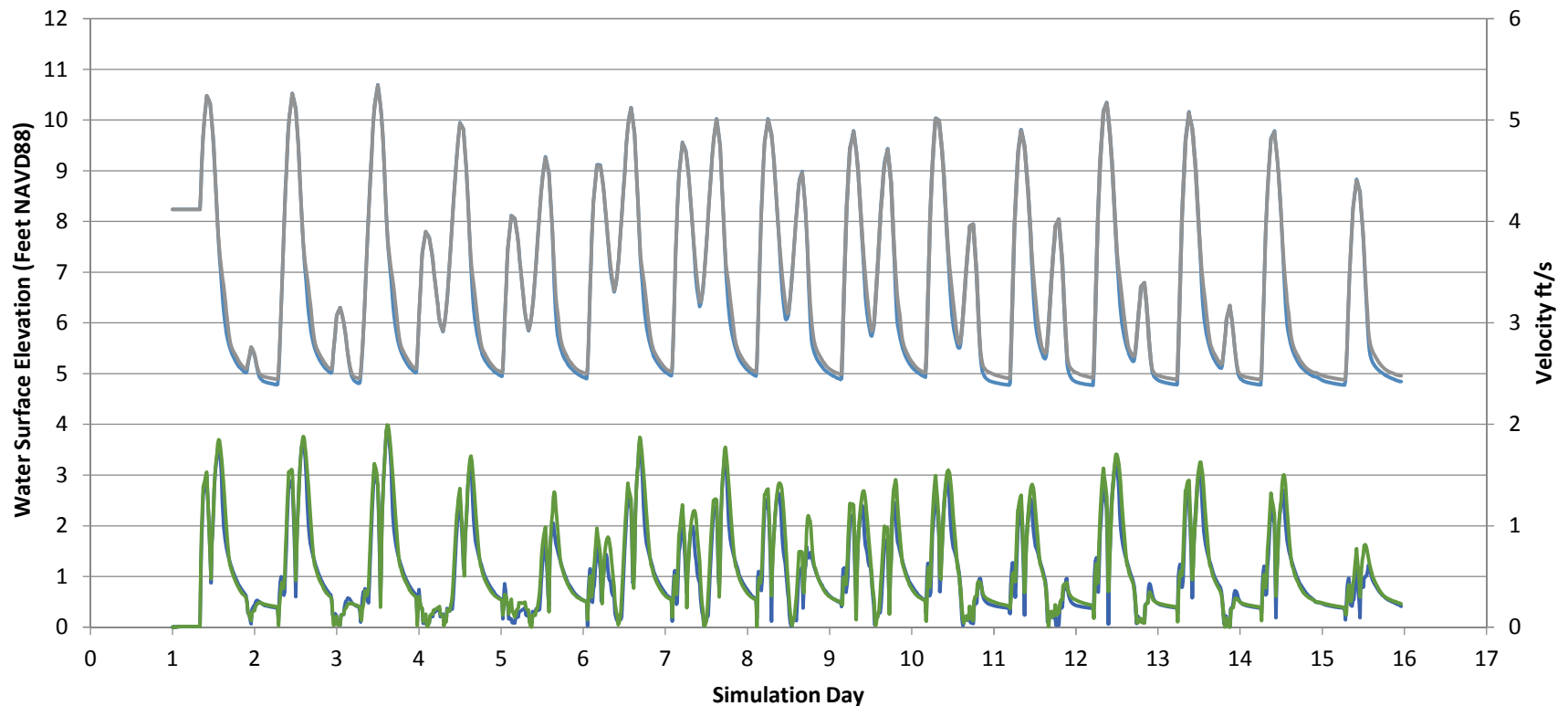
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FIG. 14

FIG. 14



— WSE Alt 1 — WSE Alt 4 — Velocity Alt 1 — Velocity Alt 4

FIG. 15

WILLOW CREEK DAYLIGHT PROJECT
EXPANDED MARSH CONCEPT DESIGN AND
HYDRAULIC MODELING
EDMONDS, WASHINGTON

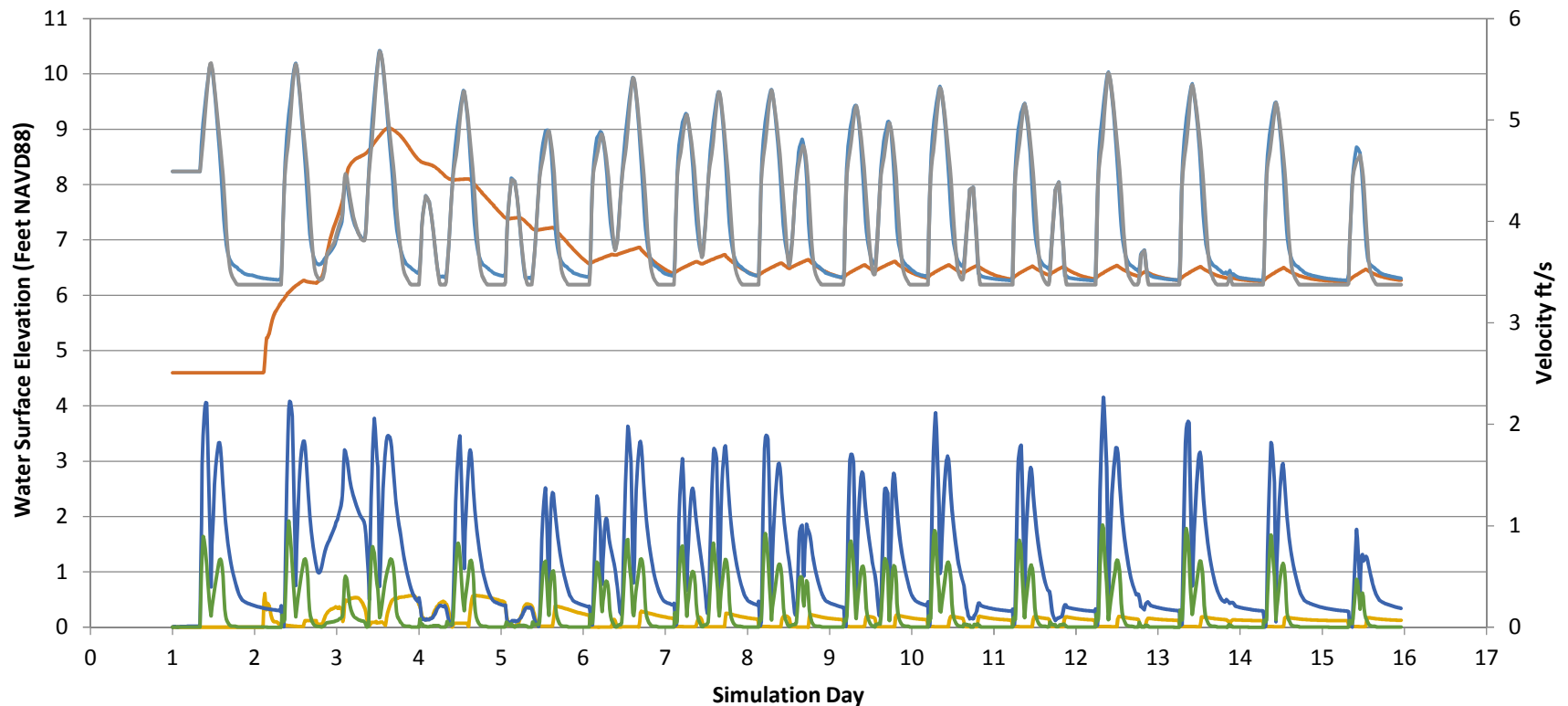
**Late Spring Fish Habitat Water
Surface Elevation and Velocity
Node 2 - Upstream of BNSF Bridge**

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FIG. 15



WSE Existing WSE Alt 1 WSE Alt 4 Velocity Existing Velocity Alt 1 Velocity Alt 4

WILLOW CREEK DAYLIGHT PROJECT
EXPANDED MARSH CONCEPT DESIGN AND
HYDRAULIC MODELING
EDMONDS, WASHINGTON

**100 Year Flood Water Surface Elevation
and Velocity
Node 3 - Upstream of Daylight Channel**

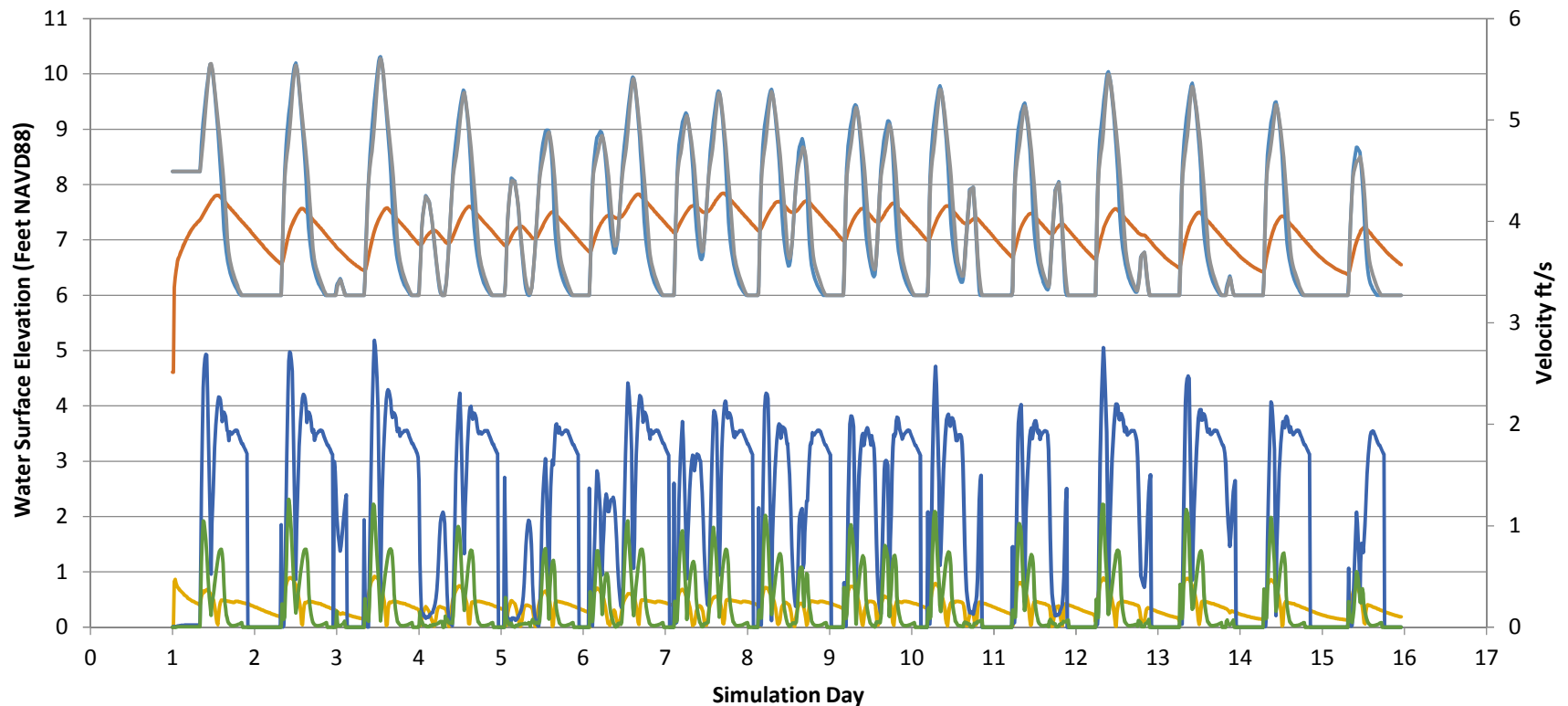
June 2019

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FIG. 16

FIG. 16



— WSE Existing
 — WSE Alt 1
 — WSE Alt 4
 — Velocity Existing
 — Velocity Alt 1
 — Velocity Alt 4

WILLOW CREEK DAYLIGHT PROJECT
 EXPANDED MARSH CONCEPT DESIGN AND
 HYDRAULIC MODELING
 EDMONDS, WASHINGTON

**Late Spring Habitat Water Surface
 Elevation and Velocity
 Node 3 - Upstream of Daylight Channel**

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FIG. 17

FIG. 17

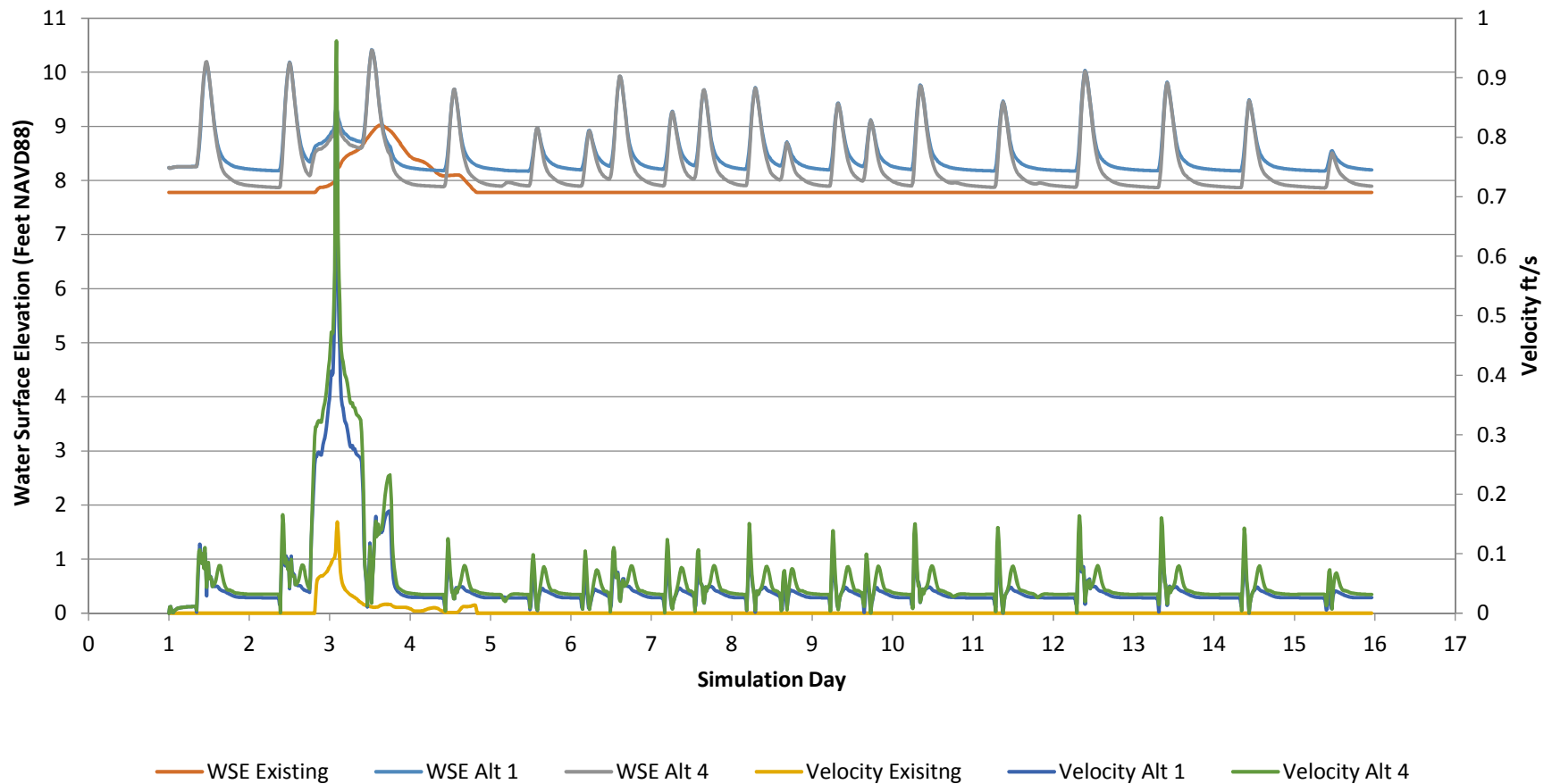


FIG. 18

WILLOW CREEK DAYLIGHT PROJECT
EXPANDED MARSH CONCEPT DESIGN AND
HYDRAULIC MODELING
EDMONDS, WASHINGTON

**100 Year Flood Water Surface
Elevation and Velocity
Node 4 - Center of Marsh**

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FIG. 18

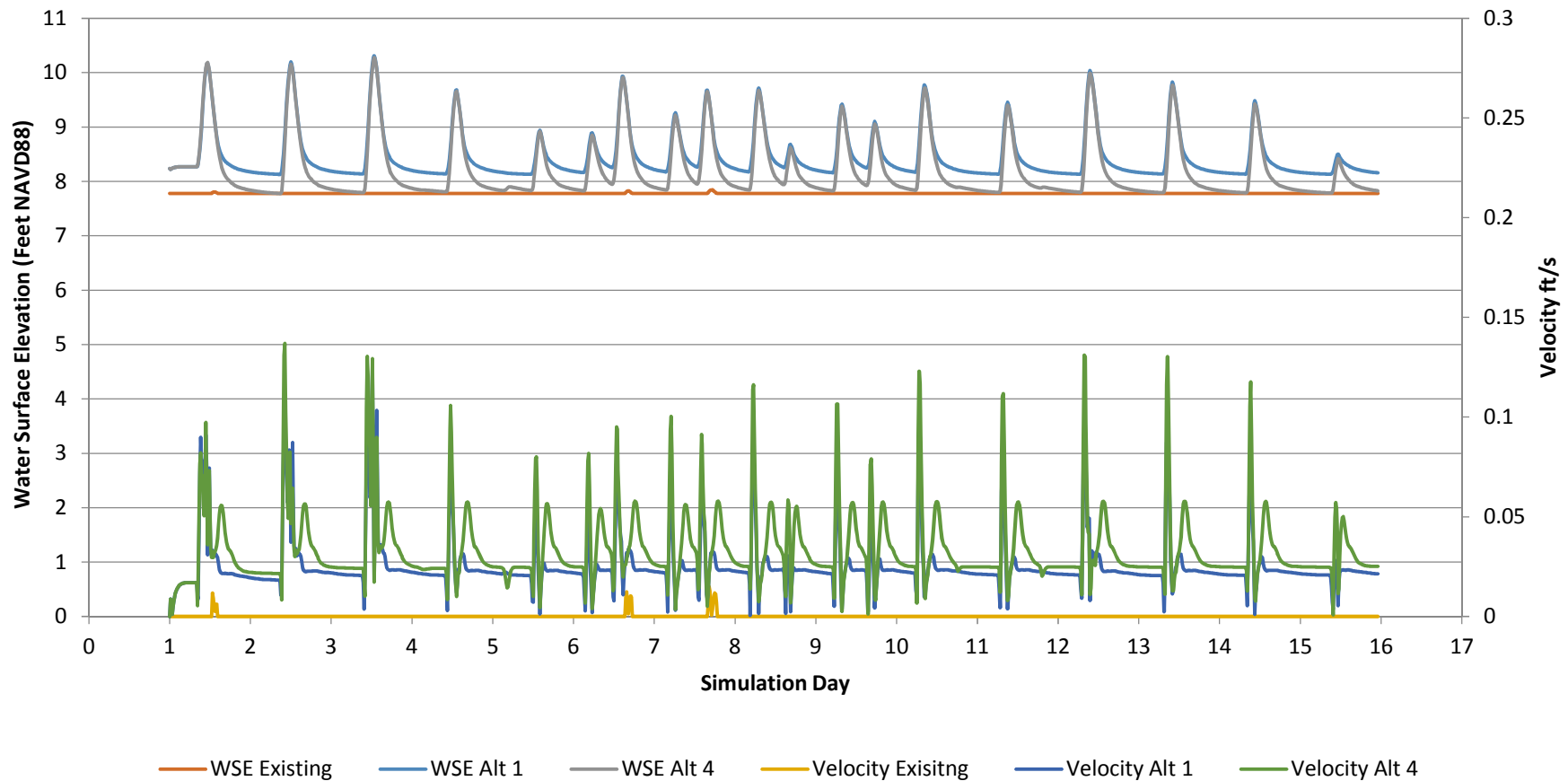


FIG. 19

WILLOW CREEK DAYLIGHT PROJECT
EXPANDED MARSH CONCEPT DESIGN AND
HYDRAULIC MODELING
EDMONDS, WASHINGTON

**Late Spring Fish Habitat Water
Surface Elevation and Velocity
Node 4 - Center of Marsh**

June 2019

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FIG. 19

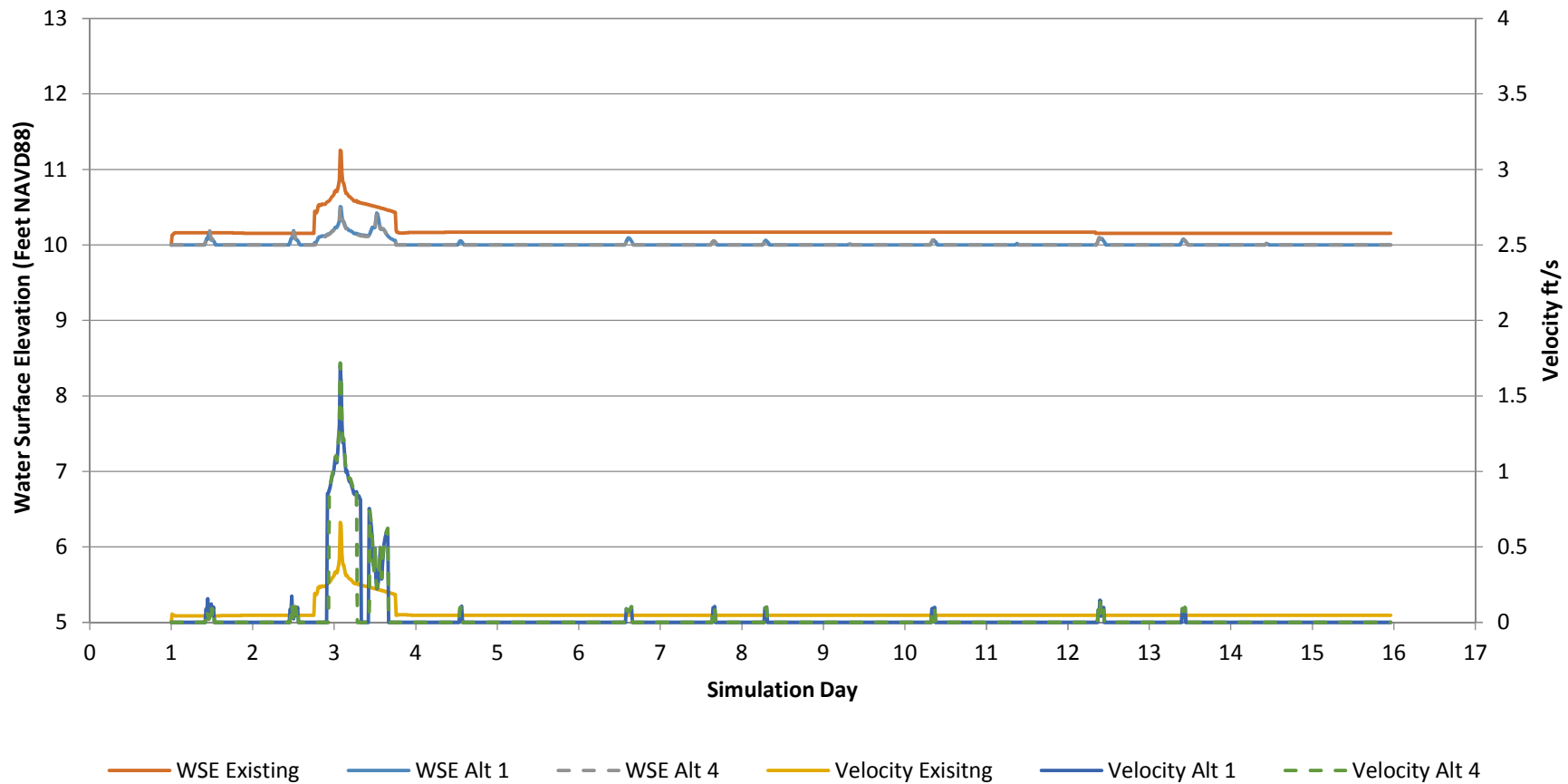


FIG. 20

WILLOW CREEK DAYLIGHT PROJECT EXPANDED MARSH CONCEPT DESIGN AND HYDRAULIC MODELING EDMONDS, WASHINGTON	
100 Year Flood Water Surface Elevation and Velocity Node 5 - Willow Creek Downstream of Hatchery	
June 2019	21-1-12588-050
 SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	FIG. 20

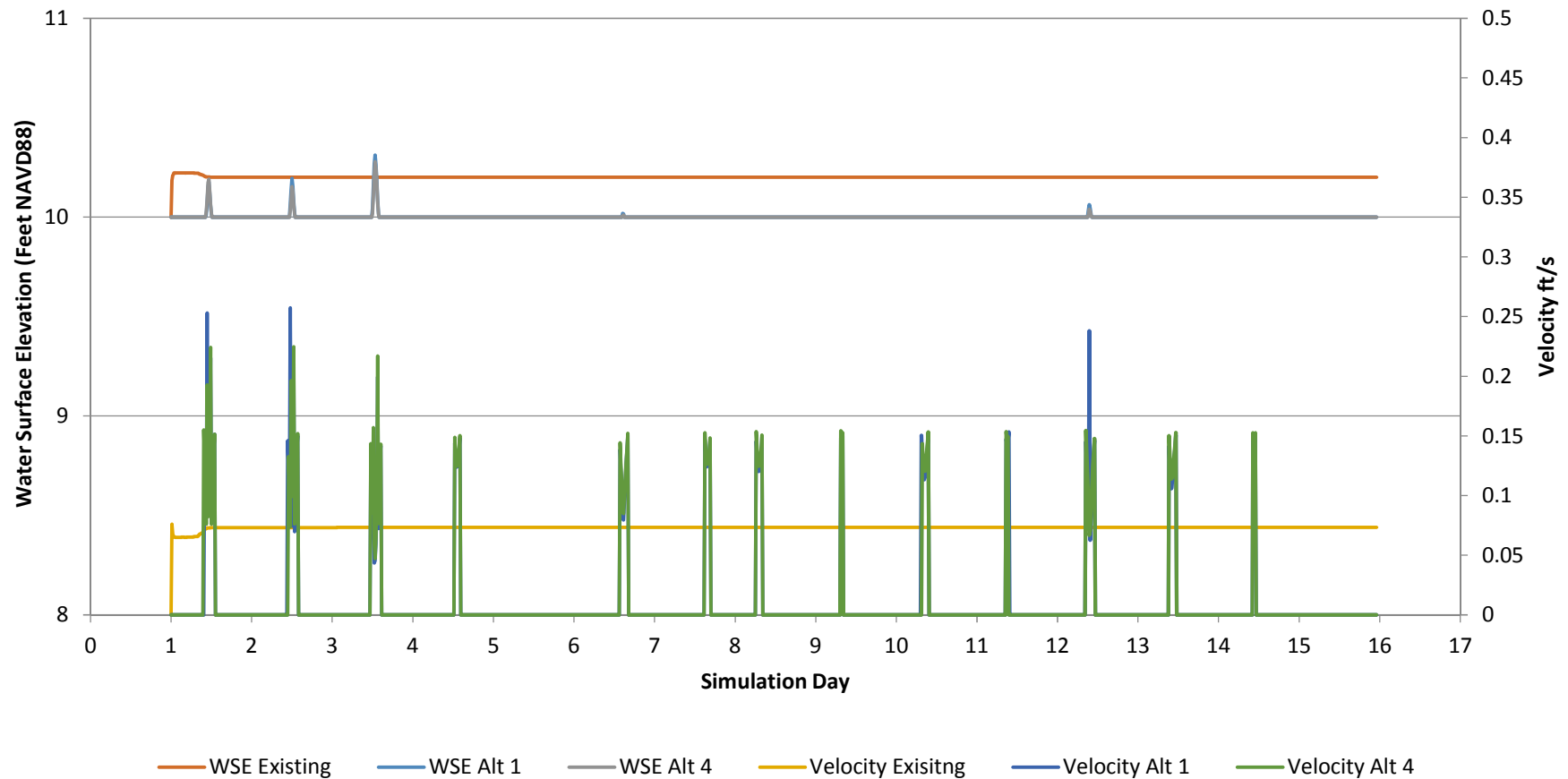


FIG. 21

WILLOW CREEK DAYLIGHT PROJECT
EXPANDED MARSH CONCEPT DESIGN AND
HYDRAULIC MODELING
EDMONDS, WASHINGTON

**Late Spring Fish Habitat Water Surface
Elevation and Velocity
Node 5 - Willow Creek Downstream of
Hatchery**

June 2019

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FIG. 21

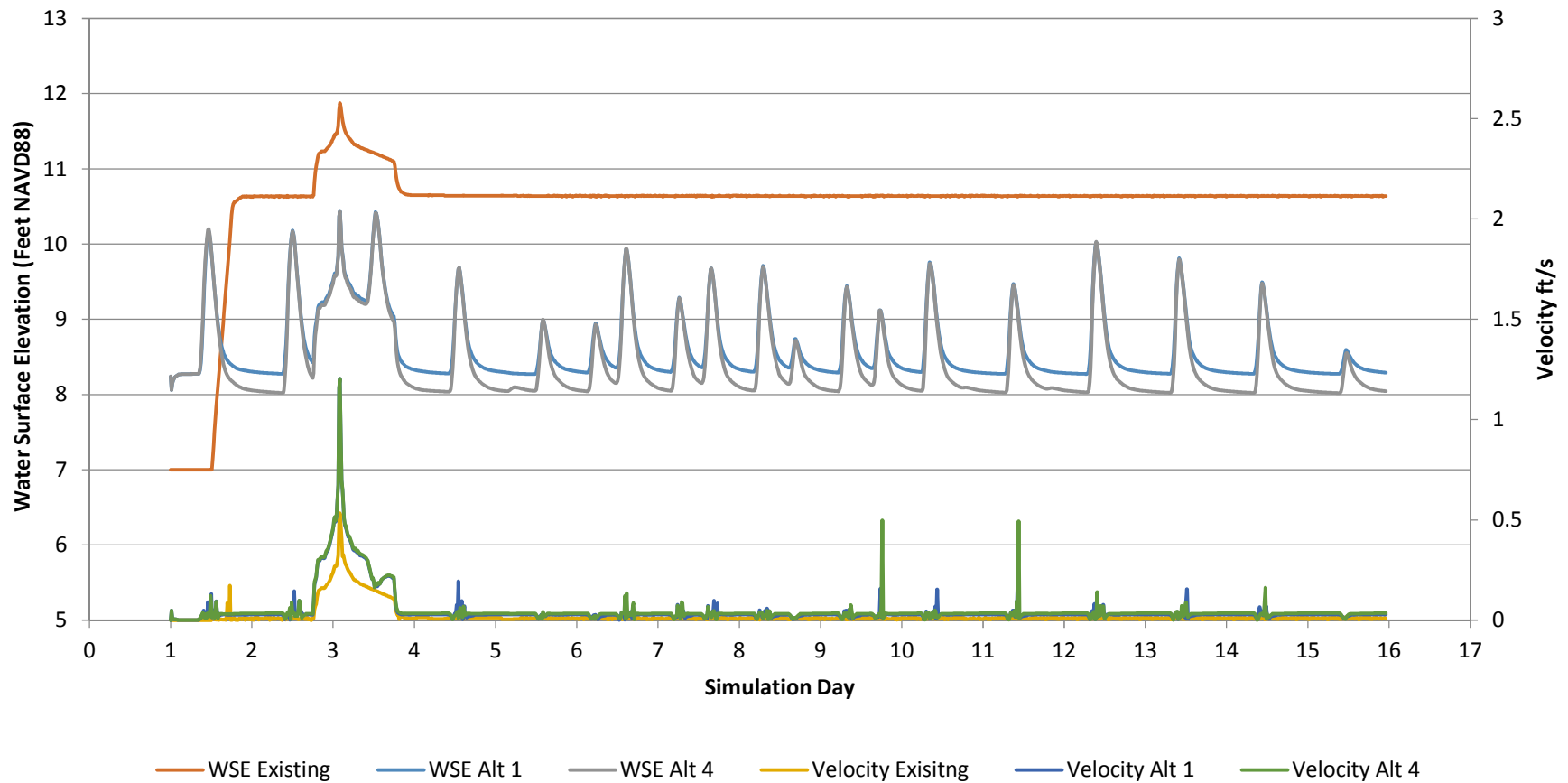
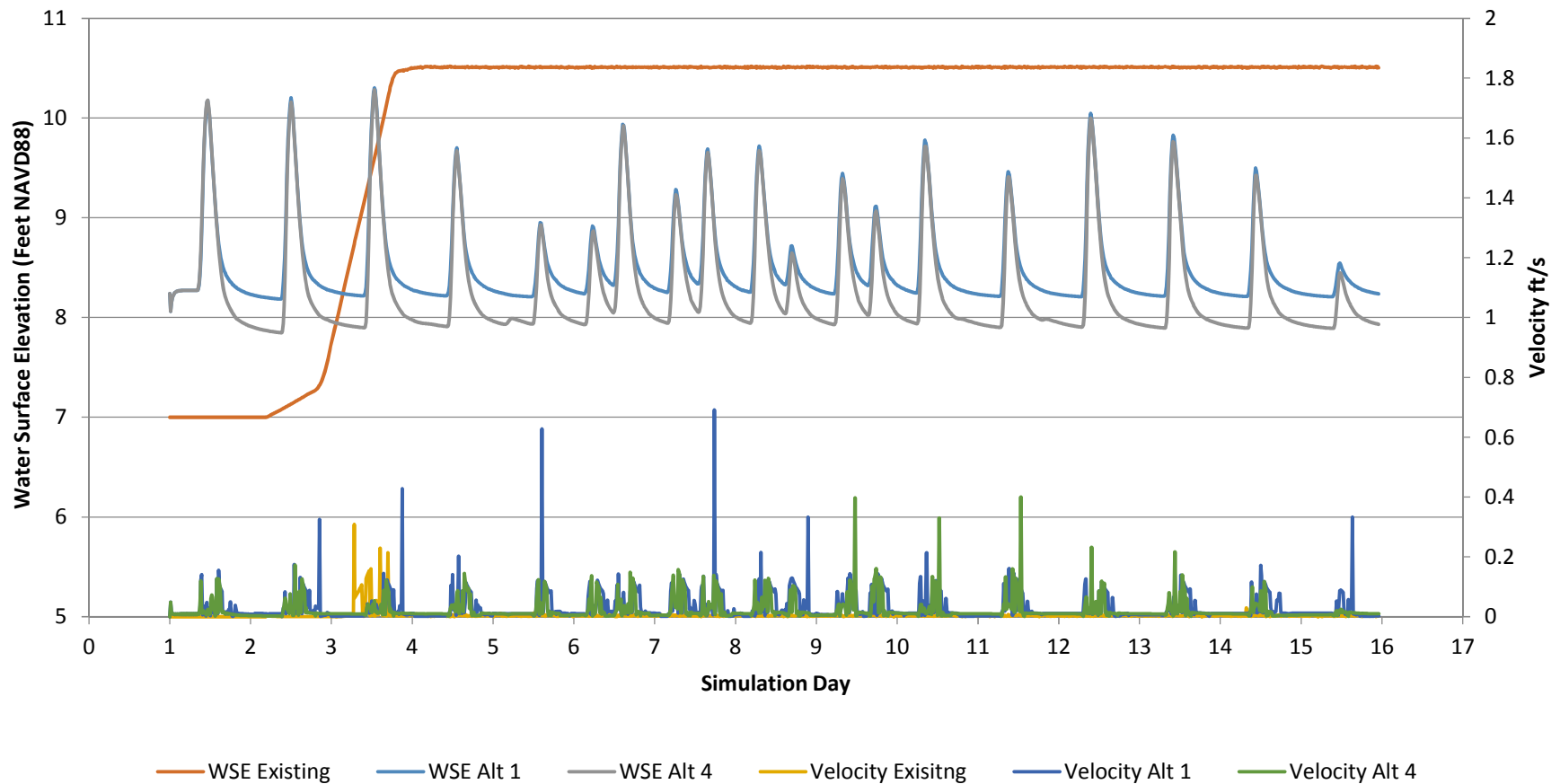


FIG. 22

WILLOW CREEK DAYLIGHT PROJECT EXPANDED MARSH CONCEPT DESIGN AND HYDRAULIC MODELING EDMONDS, WASHINGTON	
100 Year Flood Water Surface Elevation and Velocity Node 6 - Shellabarger Creek Downstream of SR 104	
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 SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	FIG. 22



WILLOW CREEK DAYLIGHT PROJECT
EXPANDED MARSH CONCEPT DESIGN AND
HYDRAULIC MODELING
EDMONDS, WASHINGTON

**Late Spring Habitat Water Surface Elevation
and Velocity
Node 6 - Shellabarger Creek Downstream of
SR 104**

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FIG. 23

FIG. 23