

**MEMORANDUM**

**TO:** Brent Johnson, Assembly President  
Members of the Borough Assembly

**FROM:** Mike Navarre, Borough Mayor *MN*

**DATE:** October 3, 2022

**RE:** Appointments to Resilience and Security Advisory Commission

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Pursuant to Ordinance 2022-25, commissioners shall be appointed by the Mayor and confirmed by the Assembly.

I hereby submit my recommendation for confirmation.

**RESILIENCE AND SECURITY ADVISORY COMMISSION  
SOUTHWEST PENINSULA SEAT**

(areas of Seldovia, Port Graham, Homer, Kachemak City, Nanwalek)

Bretwood Higman

Term Expires 09/30/2025

Thank you for your consideration.

Kenai Peninsula Borough  
Office of the Borough Clerk

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**MEMORANDUM**

**TO:** Mike Navarre, Borough Mayor  
**THRU:** Robert Ruffner, Planning Director  
**THRU:** Johni Blankenship, Borough Clerk (JB)  
**FROM:** Michele Turner, Deputy Borough Clerk (MT)  
**DATE:** October 3, 2022  
**RE:** Verification of Resilience and Security Advisory Commission Applicants

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The annual notice of vacancy for the Resilience and Security Advisory Commission was advertised on August 1, 2022. The filing period closed on August 30, 2022. Seats have remained opened until filled.

Per Ordinance 2020-25, appointed members shall have experience in at least one of the ten areas defining the scope of the commission. Sustainability commissioners shall submit a resume with their application to be appointed by the mayor and approved by the assembly.

The attached applications are submitted herewith for your consideration.

**SOUTHWEST PENINSULA** (areas of Seldovia, Port Graham, Homer Kachemak City, Nanwalek)

- Bretwood Higman 1119 W. Boone Lane, Seldovia

Thank you.

# Kenai Peninsula Borough

## Planning Department

Resilience & Security Advisory Commission Application Submitted 2022-09-16 15:45:53

Seat: Southwest Borough Seat (Seldovia, Port Graham, Homer, Kachemak City, Nanwalek)  
Term Expires 09/30/2025

<b>Name:</b> Bretwood Higman
<b>Mailing Address:</b> PO Box 164 Seldovia, AK 99663
<b>Residential Address (if different from mailing address):</b> 1119 S. Boone Lane Seldovia, AK 99663
<b>Email:</b> hig314@gmail.com
<b>Mobile:</b> 9072906992
<b>{Work:caption}</b> {Work:value}
<b>Home Phone:</b> 9072906992
<b>Occupation or place of employment:</b> Ground Truth Trekking
<b>{HowLongLived:caption}</b> {HowLongLived:value}
<b>In which of the 10 areas defining the scope of the commission do you have experience?</b> 2, 4, 5, 8, 9, 10
<b>{Expertise:caption}</b> {Expertise:value}
<b>{CurrentlyServe:caption}</b> {CurrentlyServe:value}

**{Available:caption}**

{Available:value}

**Comments (areas of interest, additional experience or qualifications, etc.):**

I'm particularly interested to support resilience through energy system improvement and study of natural hazards.

# Curriculum vitae with track record (for researchers)

Role in the project    Project manager     Project participant

## Personal information

First name, Surname:	Bretwood Higman		
Date of birth:	8 November, 1976	Sex:	Male
Nationality:	USA		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	ORCID 0000-0002-8462-3656		
URL for personal website:	<a href="http://www.groundtruthalaska.org">www.groundtruthalaska.org</a>		

## Education

Year	Faculty/department - University/institution - Country
2007 (dissertation defended)	PhD: Dept. of Earth and Space Science, University of Washington, Seattle

## Positions - current and previous

Year	Job title – Employer - Country
2007 - present	Executive Director, Ground Truth Alaska, USA
2009 - present	Geologist & Data Analyst, Nuka Research and Planning, USA

## Project management experience

Year	Project owner - Project - Role - Funder
2016-2019	2015 Taan landslide and tsunami interdisciplinary study - project coordination, researcher - US National Science Foundation
2020 - Present	Ground Truth Alaska - Inventory of Alaska landslides and instabilities - Project lead - US Geological Survey & US National Science Foundation
2020 - Present	Arctic Tsunamigenic Slope Instabilities Partnership (Arctic T-SLIP) - Collaboration on research into climate-driven landslide hazards in Alaska - coordination co-lead - Unfunded
2019 - Present	RWTH Aachen - Study of landslide hazards at Grewingk Lake - logistical coordinator - Deutsche Forschungsgemeinschaft (German Research Foundation)

## Supervision of students

Master's students	Ph.D. students	University/institution - Country
2		Central Washington University

### Other relevant professional experiences

Year	Description - Role
2019 - present	Adjunct Member, Quaternary Research Center, USA
2020 - present	Borough Commissioner on the Resilience and Security Commission for the Kenai Peninsula Borough

## Track record

Number of publications (Google Scholar): 55 H-Index 14, 885 citations

- Atwater, B.F., Bourgeois, J., Yeh, H., Abbott, D., Cisternas, M., Glawe, U., Higman, B., Horton, B., Peters, R., Rajendran, K., 2005. Tsunami geology and its role in hazard mitigation.
- Bloom, C.K., MacInnes, B., Higman, B., Shugar, D.H., Venditti, J.G., Richmond, B., Bilderback, E.L., 2020. Catastrophic landscape modification from a massive landslide tsunami in Taan Fiord, Alaska. *Geomorphology* 353, 107029.
- Dai, C., Higman, B., Lynett, P.J., Jacquemart, M., Howat, I.M., Liljedahl, A.K., Dufresne, A., Freymueller, J.T., Geertsema, M., Ward Jones, M., 2020. Detection and assessment of a large and potentially tsunamigenic periglacial landslide in Barry Arm, Alaska. *Geophysical research letters* 47, e2020GL089800.
- Dufresne, A., Geertsema, M., Shugar, D., Koppes, M., Higman, B., Haeussler, P., Stark, C., Venditti, J., Bonno, D., Larsen, C., 2018. Sedimentology and geomorphology of a large tsunamigenic landslide, Taan Fiord, Alaska. *Sedimentary Geology* 364, 302–318.
- Higman, B., Bourgeois, J., 2021. Deposits of the 1992 Nicaragua tsunami, in: *Tsunamiites*. Elsevier, pp. 85–107.
- Higman, B., Shugar, D.H., Stark, C.P., Ekström, G., Koppes, M.N., Lynett, P., Dufresne, A., Haeussler, P.J., Geertsema, M., Gulick, S., 2018. The 2015 landslide and tsunami in Taan Fiord, Alaska. *Scientific reports* 8, 1–12.
- Jaffe, B.E., Borrero, J.C., Prasetya, G.S., Peters, R., McAdoo, B., Gelfenbaum, G., Morton, R., Ruggiero, P., Higman, B., Dengler, L., 2006. Northwest Sumatra and offshore islands field survey after the December 2004 Indian Ocean tsunami. *Earthquake Spectra* 22, 105–135.
- Liu, P.L.-F., Lynett, P., Fernando, H., Jaffe, B.E., Fritz, H., Higman, B., Morton, R., Goff, J., Synolakis, C., 2005. Observations by the international tsunami survey team in Sri Lanka. *Science* 308, 1595–1595.
- Pedoja, K., Bourgeois, J., Pinegina, T., Higman, B., 2006. Does Kamchatka belong to North America? An extruding Okhotsk block suggested by coastal neotectonics of the Ozernoi Peninsula, Kamchatka, Russia. *Geology* 34, 353–356.
- Schwaiger, H., Higman, B., 2007. Lagrangian hydrocode simulations of the 1958 Lituya Bay tsunamigenic rockslide. *Geochemistry, Geophysics, Geosystems* 8.