# Port Graham General Restoration & Habitat Protection Project



Submitted by
Port Graham Corporation
March 29, 2021, Revised August 20<sup>th</sup>, 2021





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# **EVOSTC FY 22-26 GENERAL RESTORATION and HABITAT PROJECT PROPOSAL FORM**

Proposals requesting FY22 - 26 funding are due to shiway.wang@alaska.gov and linda.kilbourne@alsaka.gov by March 29, 2021. Please note that the information in your proposal and budget form will be used for funding review. Please refer to the FY22-26 General Restoration Invitation for Proposals, posted on the EVOSTC web site (evostc.state.ak.us) for specific proposal requirements. The information requested in this form is in addition to the information requested by the General Restoration Invitation. We may make inquiries regarding the project and proposer(s), including consulting with subject matter experts, government agencies or other parties. Project proposals may be submitted in response to only one current Invitation (FY 22-31 or FY 22-26). A project that is submitted under both Invitations may be disqualified from consideration. Please indicate below if your proposal contains confidential information.

Does this proposal contain confidential information? ⊠Yes

No Confirmed with PI there is no confidential information in this proposal 4.19.22 sww

Segregate any confidential information on separate pages of the proposal, with each page marked "CONFIDENTIAL".

# **Project Number\* and Title**

Project Number: 22220507

PGC General Restoration & Habitat Protection Project

### Primary Proposer(s)/Project Manager and Affiliation(s)

Port Graham Corporation

Project Manager - Steve Colligan, Port Graham Geomatics Director, PG-ET VP

# **Date Proposal Submitted**

March 29, 2021, revised August 20<sup>th</sup>, 2021

# **Brief Project Description (maximum 300 words)**

The Project Description should provide a brief and concise summary of the proposal, its budgeted costs and its benefits for oil spill recovery and restoration. The Project Description should provide sufficient information for a summary review as this is the text that will be reproduced in the public work plan and may be relied upon by staff, the EVOSTC Public Advisory Committee and other reviewers.

Port Graham Corporation (PGC) is located on the tip of the Kenai peninsula at the sea-bound entry to Cook Inlet. PGC lands encompass high mountain vistas, tidewater and massive glaciers, deep fjords, protected bays and inlets, and an abundance of marine mammals, fish, shellfish, birds and plants, all vital to the people that live on these lands. Access from major population also makes this region a destination for many visitors and user groups. This project will create the tools and infrastructure necessary for PGC to protect subsistence areas, restore resources and services, and protect and enhance critical habitats injured by the 1989 Exxon Valdez Oil Spill (EVOS). As one of the largest landowners in the oil spill affected area, all of the approximately 200 miles of coastline habitat owned and managed by PGC was injured by the Spill. PGC is requesting \$7.5M to work in partnership with 3GLP/E-Terra to preserve important land records located in village archives, audit and correct parcel ownership records, collect detailed data to support PGC infrastructure maintenance and development, compile a PGC region-wide base map and records system that meets or exceeds national map standards and invest in facilities that will redirect human use from impacted critical habitats and support other research or restoration activities. Establishing a baseline of data for impacted areas is essential in developing ecosystem wide management plans that continue to provide resources and services to not only PGC shareholders, but also other user groups. This project will benefit multiple species and services considered injured because of the spill. Over a 5 year period PGC and partners will train and utilize local

workforce resources to implement tasks associated with goals. This proposal includes funds necessary to develop data acquisition and management to monitor and enhance habitat on spill damaged PGC land.

# **EVOSTC Funding Requested\* (round to the nearest hundred, including 9% GA, where applicable\*):**

FY22	FY23	FY24	FY25	FY26	FY22-26 Total
\$2,895,030	\$\$1,514,381	\$\$942,835	\$1,108,350	\$1,008,226	\$7,468,823

<sup>\*</sup> GA is a General Administration cost that applies to all EVOSTC projects except for purchase prices of habitat parcels. Please indicate if funds will be requested to be released on other than an annual basis. If the amount requested here does not match the amount on the budget form, the request on the budget form will considered to be correct.

# Non-EVOSTC Funds to be used for this project, please include source and amount per source:

FY22	FY23	FY24	FY25	FY26	FY22-26 Total
\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$600,000

### 1. EXECUTIVE SUMMARY (maximum ~1500 words, not including figures and tables)

Please provide a summary of the project including key objectives and overall goals. Describe the background and history of the problem. Include which injured resources and services the project supports and describe how those resources and services will benefit from this project.

The people of Port Graham are the ancestral inhabitants of the Kenai Fjords who have lived and prospered on these rocky coastlines for generations. Under the 1971 Alaska Native Claims Settlement Act (ANCSA), Port Graham received a significant land entitlement from the federal government, over

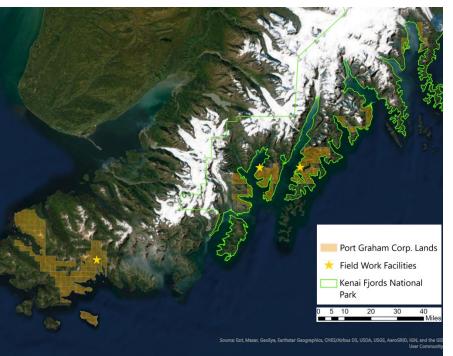


Figure 1 Kenai Fjords National Park and PGC Lands

one-third of which now lies within the boundaries of the Kenai Fjords National Park (KFNP). PGC is one of the largest landowners affected by the 1989 Exxon Valdez Oil Spill (EVOS); all of the approximately 200 miles of coastline lands owned and managed by PGC were injured during the Spill. Yet to date, PGC has not received any funding from the EVOS Trustee Council to rehabilitate spill affected lands.

The PGC communities are predominantly Native Alaskan (Alutiiq) and have a mixed cash-subsistence economy with the commercial fishing industry being a primary source of cash income.

Harvesting, processing, use and sharing of wild resources is pervasive and is a cultural tradition. Our habitat is a major source of our economy and our

source of our economy and our culture is deeply rooted in our

habitat. While the EVOS Trustee Council purchased lands from other landowners affected by the Spill for conservation, PGC has retained ownership of the majority of their lands. The reasons for this are cultural and reflect the deeply felt connection of Port Graham residents with the environment. This connection is ancient but extends to the modern era. In the words of Walter Meganack, Sr., Chief of the Port Graham Village Council in 1989, "That is who we are... We live on the land, and our food is mostly from the water. ...The land and the water are our sources of life..." (Exxon Oil Spill, Cleanup and Litigation: A Collection of Social Impacts Information and Analysis [2001], Volume 1, page 118. Prepared for the U.S. Department of the Interior).

PGC currently has a limited ability to affect significant habitat on lands that were damaged by the spill, lacking even a complete electronic inventory of resources. This proposal prioritizes community goals and the requested funds will have long term effects on the prosperity and cultural traditions of our people. These funds will allow PGC to move forward with habitat enhancement, restoration, and protection, with the infrastructure necessary to support those efforts well into the future.

Substantial amounts of time and resources have been spent to build consensus with the board, shareholders, and community members to determine and prioritize Project objectives. Together, these objectives will work to create a sustainable infrastructure that will have long term beneficial effects on our habitat, our cultural traditions, and our economy.

The goal of this project is to enable PGC to effectively restore and protect injured resources and services that will contribute to a healthy, productive ecosystem within the spill area and supports those who live and work in the area. To accomplish this goal PGC must be able to properly assess the resources and the damages caused by the Spill. The first step is to establish a baseline of data that meets national standards to work from. GeoSpatial data in this region and most of Alaska has not met National GeoSpatial data standards. In the past several years through the Alaska Statewide Mapping Program, updated terrain, hydrography and other data has been produced that meet the standards of the Nation Datasets for both positional accuracy and metadata definitions. Historical data has not yet been migrated to some of the new general base data.

The Alaska Department of Fish and Game (ADF&G), Division of Subsistence will partner with the Port Graham Corporation to update comprehensive subsistence harvest, use and ethnographic data from previous studies to provide information to stakeholders, agencies and regulatory bodies to ensure long term viability of the subsistence way of life. In subsistence economies, much can change over time. Including ethnography in partnership with the Corporation will enable us to provide additional context to this study and share that information with Port Graham and Nanwalek community members.

This proposal includes funds necessary to develop data acquisition and management to monitor and restore habitat on Spill damaged PGC lands, identify and map traditional subsistence areas and oral histories, and to improve established camp sites to lessen human impacts. PGC will develop an information system to support all conservation and scientific studies, economic development projects and infrastructure. This will include a common dataset, as well as mapping, for the benefit of Port Graham and the public agencies working in the region. It is important to the people of Port Graham to protect their traditional subsistence areas; maps and oral histories will be produced by this project for the sole use of PGC shareholders. PGC will also make improvements to existing camp facilities at three sites on their lands for use in other restoration or enhancement projects. This proposal will increase the capacity of PGC to better manage lands, resources and infrastructure. Port Graham elders have retained these lands for the long-term viability of our people; creating a data repository will fulfill a long term goal. All information, except traditional subsistence areas, will be published to an electronic database where the public and public entities, including those focused on habitat enhancement studies will be able to leverage resources in this region.

### Injured Resources and Services

PGC lands are home to a wide range of wildlife and ecological services, including all of those listed as "Injured Resources and Services" by the EVOSTC. This project will benefit multiple species and services and provide the tools for PGC to design and implement watershed-wide restoration and protection activities for all of their lands, benefiting the recovery of multiple ecosystem areas injured by EVOS.

# PROJECT HISTORY (maximum 400 words)

Is this a new or continuing project? If continuing, please describe the history of the project and what has been accomplished to date. Please include references to any existing work products (i.e., summaries or reports of results, follow-up monitoring). This project is a first of its kind for lands owned by the PGC.

### 3. PROJECT DESIGN

# A. Objectives

List the objectives of the proposed project and briefly state why it is important. If your proposed project builds on recent work, provide details on the need for its continuation and whether any changes are proposed. If the proposed project is for new work, explain the benefits of the new project and why it is needed to further the Council's mission of restoring and recovering injured natural resources and services.

The goal of the PGC General Restoration and Habitat Protection Project is to protect and restore resources and services provided by the lands owned and managed by PGC for the benefit of their shareholders and other user groups.

# Objective #1

Create a comprehensive and publicly available set of data that meet national mapping standards for PGC lands impacted by the Spill. This essential baseline set of data does not currently exist and is critical to the successful restoration of injured resources and services on these lands. Updated and standardized information will further the mission of EVOSTC by enabling PGC as well as other organizations/agencies and user groups to accurately plan and implement effective restoration and enhancement activities in this region.

### Objective #2

Improve existing remote facilities on PGC lands to direct human use away from critical habitats within areas impacted by the Spill. PGC currently owns three camp facilities, two of which are inside the boundaries of the KFNP, that are capable of providing lodging and work space for research, monitoring and restoration activities. These well-established cabins will be available to PGC partners and others working in the spill damaged area. Use of these facilities will reduce disturbances to sensitive habitat thus aiding in the restoration of ecosystems damaged by the Spill.

# Objective #3

Collect, analyze, and report information about current subsistence uses of fish and wildlife in Port Graham that is comparable with previous research results and that can be applied to evaluate the status of subsistence uses in light of the EVOS TC recovery objective. Subsistence uses are a vital natural resource service that was injured by the Spill. In the last update to subsistence harvests in this area (Fall 2014) subsistence use are identified as "recovering" but not fully recovered. These products will better enable PGC to safeguard areas critical to their people.

### **B.** Project Location

Where will the project be undertaken and why was the area chosen? Descriptive maps, photos and figures should be included here, as applicable. Describe the project area's most important features and characteristics as they relate to the spill restoration and recovery benefits of the proposed project.

PGC lands are scattered predominately along the lower east coastline of the Kenai Peninsula with the Village of Port Graham located on the western shore at the entry to Cook Inlet. Entitlements from the 1971 ANCSA total 107,540 acres that include 180 to 200 miles of coastlines. Approximately one-third, or 42,105 acres, of PGC lands are located within the boundaries of the Kenai Fjords National Park.



Figure 2 Project Location

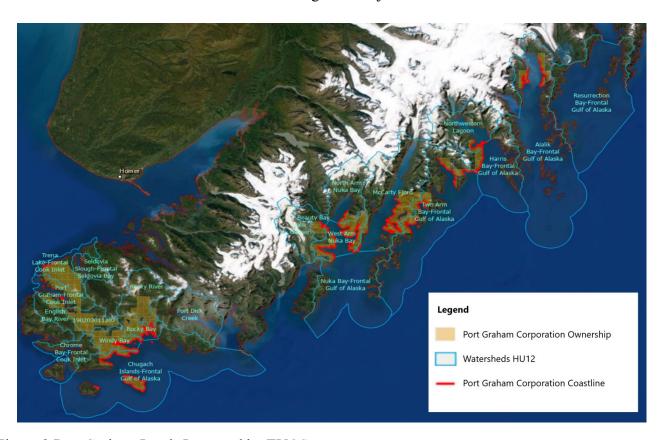


Figure 3 Port Graham Lands Impacted by EVOS

Name	AreaAcres	AreaSqKm	HUC12	HUType	HUMod	ToHUC
Port Graham-Frontal Cook Inlet	21089	85.344741	190203011208	Frontal	NM	190208000003
English Bay River	14206	57.49005	190203011209	Standard	NM	190203011210
Seldovia Slough-Frontal Seldovia Bay	12626	51.184733	190203011206	Frontal	NM	190203011211
Trena Lake-Frontal Cook Inlet	22701	91.777359	190203011211	Frontal	NM	190208000003
190203011207	16074.3	65.05	190203011207	Standard	NM	190203011208
Resurrection Bay-Frontal Gulf of Alask	127707.48	516.81	190202020602	Frontal	GL	OCEAN
Aialik Bay-Frontal Gulf of Alaska	161857.72	655.02	190202020705	Frontal	GL	OCEAN
Beauty Bay	11100.54	44.92	190202021003	Standard	GL	190202021004
North Arm Nuka Bay	36866.45	149.19	190202021001	Standard	GL	190202021004
Yalik Glacier	22768.17	92.14	190202021101	Standard	GL	190202021104
Northwestern Lagoon	46156.13	186.79	190202020802	Standard	GL	190202020803
Harris Bay-Frontal Gulf of Alaska	54859.21	222.01	190202020803	Frontal	GL	OCEAN
McCarty Fjord	88523.51	358.24	190202020902	Standard	GL	190202021202
Two Arm Bay-Frontal Gulf of Alaska	120686.07	488.4	190202021201	Frontal	GL	OCEAN
West Arm Nuka Bay	25829.89	104.53	190202021004	Standard	NM	190202021202
Nuka Bay-Frontal Gulf of Alaska	84640.99	342.53	190202021202	Frontal	GL	OCEAN
Rocky River	31545.12	127.66	190202021401	Standard	NM	190202021402
Port Dick Creek	43081.09	174.34	190202021302	Standard	GL	190202021303
Rocky Bay	12681.87	51.32	190202021402	Standard	NM	190202021404
Chugach Islands-Frontal Gulf of Alask	163489.52	661.62	190202021404	Frontal	NM	OCEAN
Windy Bay	16685.6	67.52	190202021403	Standard	NM	190202021404
Chrome Bay-Frontal Cook Inlet	28018.14	113.39	190203011212	Frontal	NM	190208000003

Figure 4 Watersheds in PGC Lands

The facilities to be improved are an older lodge located at the southern tip of the Kenai Peninsula in Rocky Bay and single cabins in Nuka Bay and McCarthy Fjord.

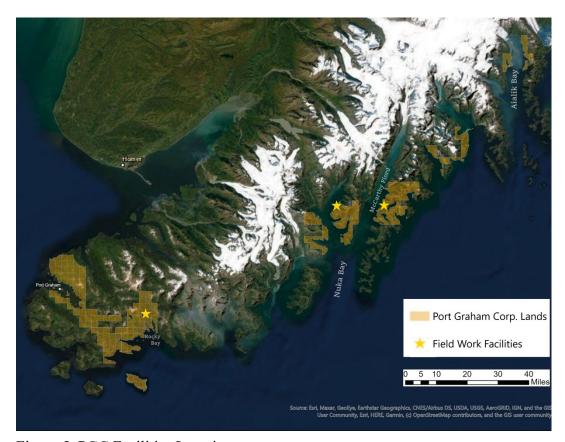


Figure 5 PGC Facilities Locations

### C. Procedures and Methods

For each objective listed in A. above, identify the methods and procedures that will be followed to meet the objective and note any prior history and results utilizing the same or similar methods elsewhere. Methods may include appropriate protocols and/or staff expertise or training. Attach any applicable contractors and sub-contractor's names, if available, engineers' or other cost estimates, if applicable, and describe any protocols and cost controls which will be applied to the expenditure of EVOSTC funds.

# Objective #1

Develop data, both geographic and attribute information, that will become the base platform for scientific and resource information of the PGC region.

Our team has over 30 years of GIS and database experience in Alaska. We have assembled a team of experts in the fields of GIS, Land Information System, Remote Sensing, photogrammetry, and LiDAR that we are confident will create a sustainable land information capability in our region.

Standard inventory and assessment methods will be used for existing and historical data before being compiled into a uniform geospatial data repository. Historical project data will be evaluated and compiled into a work plan to migrate the data to a new geographic base or update the metadata to reflect its suitability. We will then create a Geospatial database model and framework using USGS National Geospatial Program standards and Federal Geographic Data Committee standards where applicable for mapping features and resources using existing vegetation and scientific classification models for feature and resource classifications.

A GAP Analysis of deficiencies in existing data will be developed, resulting in the definition of requirements for new geospatial data to be collected. Budgets and resources will be created defining the geographic extent and requirements of each element. Each will be prioritized and budgeted within this project or in cooperation with other agency cooperation and matching funds. New data will be collected via contractor or self-performance depending on the highest benefit to this initiative.

Standards and specifications for geospatial data to be collected or integrated in the database include the ASPRS Positional Accuracy Standards for Digital Geospatial Data, 2014, (http://www.asprs.org/wpcontent/uploads/2015/01/ASPRS Positional Accuracy Standards Edition1 Version100 November2014.pdf), which address the geo-location accuracies of digital geospatial products, particularly those generated with recent remote sensing technologies. It includes useful horizontal accuracy classes for digital orthoimagery, among other things. For LiDAR collections, the latest USGS 3DEP Lidar Base Specification will be used (https://www.usgs.gov/core-science-systems/ngp/ss/lidar-base-specification-online).

Applicable FGDC standards (<a href="https://www.fgdc.gov/standards/standards\_publications/">https://www.fgdc.gov/standards/standards\_publications/</a>) include those for metadata and potentially the FGDC National Vegetation Classification Standard 2008 <a href="https://www.fgdc.gov/standards/projects/FGDC-standards-projects/vegetation/NVCS\_V2\_FINAL\_2008-02.pdf">https://www.fgdc.gov/standards/projects/FGDC-standards-projects/vegetation/NVCS\_V2\_FINAL\_2008-02.pdf</a>, with another, Alaska specific example for a land cover classification including a hierarchical vegetation classification being The Alaska vegetation classification (Viereck et al. 1992) <a href="https://www.fs.usda.gov/treesearch/pubs/6941">https://www.fs.usda.gov/treesearch/pubs/6941</a>.

Hardware, software, and IT infrastructure will be purchased, developed and maintained to support the Land Information System. We foresee the use of traditional local workstation and Cloud hosted infrastructure to fulfill the need to create, maintain and publish this information to shareholders, public and public agency partnerships. We anticipate the use of ESRI ARCGIS and open source GIS tools. PGC will develop internal capabilities for the long-term maintenance and field data collection.

PGC Staff will be trained and educated on the long-term maintenance of the database and supplemented with professional services as needed to maintain its applications, data and infrastructure.

# Objective #2

Improve existing remote facilities on PGC lands to direct human use away from critical habitats within areas impacted by the Spill.

The three PGC remote camp facilities will be inventoried to determine the amount of repair and maintenance work required to make them safe and habitable. All sites will also be evaluated for equipment needs. Each facility will be upgraded to include a solar power source that will provide both power to the lodging and access to the internet. Size and location of equipment will vary between sites and will be designed to be self-sustaining with very low maintenance needs. Local workforce will be utilized as much as possible for the repair, maintenance and installation work done at each site. When completed, these sites will provide living quarters and workspace for others doing work in adjacent spill affected areas. Using these established camp locations will direct human use away from critical areas while providing access for long term monitoring and research as well as other restoration activities.

# Objective #3

The purpose of the project is to collect, analyze, and report information about current subsistence uses of fish and wildlife in Port Graham that is comparable with previous research results and that can be applied to evaluate the status of subsistence uses in light of the EVOS TC recovery objective. This portion of the project will be guided by research principles adopted by the Alaska Federation of Natives in its Guidelines for Research, and by the National Science Foundation's Office of Polar Programs in its Principals for Conducting Research in the Arctic, as well as the Alaska confidentiality statute (AS 16.05.815). These principles stress community approval of research designs, informed consent, anonymity of study participants, community review of draft study findings, and the provision of study findings to each study community upon completion of the research.

Prior to research, meetings will be held in Port Graham to review project goals and methods and to seek input on research questions. Formal approval of the project in the form of a resolution will be sought from the tribal government.

These sampling methods will be identical to those used in previous rounds of surveys in the Port Graham.

The primary method for collecting information about contemporary subsistence harvests and uses, evaluations of changes over time, community demography, and the kinds of jobs and sources of cash income in the three study communities will be a systematic household survey. The survey will follow procedures established in previous rounds of household interviews in the study communities (Fall 2006). The survey instrument will be modeled after those administered by the Division of Subsistence and its research partners during previous rounds of research in EVOS-area communities, and in approximately 200 other Alaska communities. Information will be collected for a 12-month study year, calendar year 2023.

Key topics for data collection during the household surveys include the following:

- 1. Subsistence Harvest and Use Information
- a. Whether the household used, attempted to harvest, harvested, received, or gave away each wild resource
- b. Harvest quantities in numbers of animals, buckets, gallons, or other appropriate units
- c. Households' assessments of uses and harvests in the study year compared to other recent years,

and reasons for differences

- d. Harvest locations in the study year
- e. Individual involvement in subsistence activities, including the involvement of children
- 2. Demographic Information, including, for each household member, age, sex, ethnicity, birthplace, and length of residency in the community
- 3. Employment and cash income, including jobs held by household members, occupational type, employer type, earned cash income, and other income
- 4. A series of questions about subsistence food safety, sharing, the role of elders in the community, the transmission of subsistence skills to young people, the status of traditional harvest areas, and the status of the subsistence way of life (questions asked in previous surveys in EVOS-area communities).
- 5. Households' comments and concerns: open ended responses.

The survey instrument is not designed for self-administration. Teams of researchers (Division of Subsistence staff and local researchers) will administer the survey in face-to-face interviews in the study communities. A detailed training manual, developed during previous rounds of surveys throughout the state, will guide the orientation of local researchers. Orientation sessions will take place in each study community before the surveys began.

During household interviews, the researchers will ask respondents to indicate the locations of their hunting, fishing, and gathering activities during the study year. In addition, interviewers will ask the respondents to mark on the maps the sites of each harvest, the species harvested, the amounts harvested, and the months of harvest. Points are used to identify harvest locations and polygons (circled areas) are used to show harvest effort areas, such as areas searched while hunting deer. Some lines are also drawn in order to depict trap lines or courses taken while trolling for fish, for example, when the harvesting activity does not occur at a specific point. Harvest locations and hunting and gathering areas will be documented using an application designed on the ArcGIS Runtime SDK for IOS platform; the device used to collect the data is an iPad. The point, polygon, or line is drawn on a U.S. Geological Survey topographic relief map downloaded on the iPad. The iPad allows the user to zoom in and out to the appropriate scale, and the ability to document harvesting activities wherever they occurred in Alaska. Once a feature is accepted, an attribute box is filled out by the researcher that notes the species harvested, amount, method of access to the resource, and month(s) of harvest. The data are then uploaded via Wi-Fi to a server. Once data collection is complete the data are downloaded into an ArcGIS file database. Paper maps will also be available for a reference for respondents as well as use by a local research assist if an ADF&G researcher is not available for the interview. During these interviews, respondents will also be asked to indicate key fishing, hunting, and gathering area which they no longer use, and to offer explanations for why any changes in these areas have occurred.

All data will be coded by Division of Subsistence staff following standardized codebook conventions to facilitate data entry. Staff within the division's Information Management Section will set up database structures within an MS SQL Server at ADF&G in Anchorage to hold the survey data. The database structures include rules, constraints, and referential integrity to insure that data are entered completely and accurately. All data will be entered twice, and compared programmatically for inconsistent data entry. Double data entry ensures more accurate transfer of information from the coded survey forms into the database, and is a standard practice with data processing for the Division of Subsistence. After data are entered and confirmed, information will be processed with the Statistical Package for the Social Sciences (SPSS). Initial processing will include the performance of standardized logic checks of the data. Logic checks are often needed in complex data sets where rules, constraints, and referential integrity do not capture all of the possible inconsistencies that may appear. Harvest data collected as numbers of animals, or in gallons or buckets, will be converted to pounds usable weight using standard

factors. SPSS will also be used for analyzing the survey information. Analysis will include review of raw data frequencies, cross tabulations, table generation, estimation of population parameters, and calculation of confidence intervals for the harvest estimates. Missing information will be addressed situationally. The Division of Subsistence has standardized practices for dealing with missing information, such as minimal value substitution or use of an average response for similarly characterized households. Harvest estimates and responses to all questions will be calculated based upon the application of weighted means (Cochran 1977). These calculations are standard methods for extrapolating sampled data. The corrected, final data from the household survey will be added to the Division of Subsistence Community Subsistence Information System (CSIS). This publicly-accessible database includes community-level study findings. Project staff will compile harvest data from other sources for comparisons with the most recent survey results and for development of time series to help discern harvest trends. These data sets include results of previous household surveys by the Division of Subsistence, which collected comprehensive harvest data for the 3 study communities for multiple study years, and data collection efforts which focus on specific resources, such as salmon, large land mammals, halibut, and marine mammals.

Following internal data review and cleaning, project personnel will travel back to Port Graham for a preliminary review and discussion of the survey findings. Following review of the draft final report, it will be revised to be part of the Division of Subsistence Technical Paper Series. Reports in the Technical Paper Series are available on line at www.adfg.alaska.gov/sf/publications/ Survey data at the community level also appear in the Community Subsistence Information System database, online at www.adfg.alaska.gov/sb/CSIS/.

Data created from these surveys will be incorporated into the Geospatial database model and framework developed by this project. Data sets will be used to create maps and other products documenting traditional and current subsistence areas utilized by the communities. This information will not be made public and is for the sole use of the local tribal councils and their members.

# **D.** Project Reporting

For all EVOSTC-funded projects, the Project Manager shall commit to provide work progress reports annually (or more frequently, if requested by the Executive Director in writing). Reports shall include narrative and specifics on funding received and expended to date, progress made on milestones and tasks, and must explain any variations from the project plan.

PGC is committed to adhere to EVOS Trustee Council staff requirements for reporting.

# E. Project Data Management

The PGC Project proposal and deliverables will coordinate and implement data management policies as prescribed in EVOS current data management policies as below. PGC Will coordinate with EVOS staff and AXIOM contract staff on all data deliverables, meta-data. PGC understands that AXIOM will be under direct contract from EVOS for project data management oversight. The PGC team is well versed in national data standards, deliverables to federal agencies and metadata requirements. The PGC team will coordinate early in the project with AXIOM to establish process, procedures and deliverables for the projects defined under this grant request.

"The Exxon Valdez Oil Spill Trustee Council's data policy encourages full and open access to, and confident use of, the data and information used in and produced by programs and projects of the Exxon Valdez Oil Spill Trustee Council (EVOSTC). These data need to be easily understandable, electronically accessible and well organized to allow policy makers, researchers, managers, and the general public to make well-informed decisions. As such, Axiom Data Science, through it's partnership with the Alaska

Ocean Observing System (AOOS) have considerable experience developing scientific data management infrastructure, and they provide experienced personnel to manage both data and metadata documentation according to federal quality control standards. This project will use the AOOS data management infrastructure (developed and maintained by Axiom Data Science) to manage and share the data generated through this effort, in accordance with the EVOSTC Data Management Procedures. This system uses the standards and best practices defined by the NOAA U.S. IOOS Data Management and Communications committee (IOOS, 2010). Among this infrastructure is an operational stack of open source software components developed by Axiom Data Science, with support from the NOAA Integrated Ocean Observing System (IOOS), EVOSTC, the National Science Foundation and more, which manages large numbers of continuous data feeds and a data catalog framework to integrate and disseminate a variety of data products. Data and data products generated by this project will be posted on the Research Workspace together with standards-compliant metadata for access by the EVOSTC. At the end of the project term, final QA/QC'd data and metadata will be made publicly available through the Gulf of Alaska data portal and made publicly accessible through the AOOS Gulf of Alaska data portal and distributed to DataONE for long-term preservation.

Data Types, Formats, and Metadata: This project will generate the following data that would be made publicly available: i) geospatial database and/or mapped layers of the PGC region using remote sensing and LiDAR techniques. Data will be stored in non-proprietary formats to ensure re-use and long-term preservation. Project data may initially exist in proprietary or binary formats as primary-level data, depending on the source provider. Though the data may be in a state which can be easily utilized by the research team, in many cases the primary-level data is not in a form ready to be shared with the broader science community or integrated with other datasets. As such, the contracted deliverables for the project will include file geodatabases for the NWI and NHD products and raster data for the LiDAR information. The following documents reference the required format and metadata standards:

- Standards and specifications for geospatial data to be collected or integrated in the database include the ASPRS Positional Accuracy Standards for Digital Geospatial Data, 2014, (http://www.asprs.org/wpcontent/uploads/2015/01/ASPRS\_Positional\_Accuracy\_Standards\_Edition1\_Version100\_November2014.pdf), which address the geo-location accuracies of digital geospatial products, particularly those generated with recent remote sensing technologies. It includes useful horizontal accuracy classes for digital orthoimagery, among other things. For LiDAR collections, the latest USGS 3DEP Lidar Base Specification will be used (https://www.usgs.gov/core-science-systems/ngp/ss/lidar-base-specification-online).
- Applicable FGDC standards (<a href="https://www.fgdc.gov/standards/standards\_publications/">https://www.fgdc.gov/standards//www.fgdc.gov/standards/</a> include those for metadata and potentially the FGDC National Vegetation Classification Standards 2008 <a href="https://www.fgdc.gov/standards/projects/FGDC-standards-projects/vegetation/NVCS\_V2\_FINAL\_2008-02.pdf">https://www.fgdc.gov/standards/projects/FGDC-standards-projects/vegetation/NVCS\_V2\_FINAL\_2008-02.pdf</a>, with another, Alaska specific example for a land cover classification including a hierarchical vegetation classification being The Alaska vegetation classification (Viereck et al. 1992) <a href="https://www.fs.usda.gov/treesearch/pubs/6941">https://www.fs.usda.gov/treesearch/pubs/6941</a>.

Comprehensive metadata using the latest national and international technology and community standards will be written for each data collection generated. The Research Workspace includes an integrated metadata editor, allowing researchers to generate metadata conforming to the FGDC-endorsed ISO 19110 and 19115-2 suite of standards. Axiom will provide technical assistance to project researchers to ensure robust and standards-compliant metadata are generated for final project datasets prior to data publication and archive, as needed.

**Data Access and Timeframes:** Among the Axiom data system infrastructure is the Research Workspace,

a web-based scientific collaboration and data management tool used by researchers to secure and centralize project data, generate standards-compliant metadata, and ultimately elect data files and derived data products to be published openly on public data portals and in long-term data archives. Following the EVOSTC data sharing policies for process studies which are research-oriented in nature and do not have annual timeseries data, the final data products and metadata will be stored in the Research Workspace and made publicly available through the GOA data portal by the end of the project term. The Research Workspace is the gateway for PIs to elect and publish data and metadata to the GOA data portal.

Data Storage, Preservation, and Archiving: The Axiom data center and services are housed on highly redundant storage and compute resources at a data center in Portland, OR, and are geo-replicated using Amazon Glacier Cloud Archive Services. All databases and code repositories are routinely backed-up, and servers undergo routine maintenance to swiftly address security vulnerabilities. Servers containing source code and databases are located behind an enterprise-level firewall and are physically secure with environmental regulation systems, redundant power, and fire suppression. Axiom's HPC resources are composed of approximately 2500 processing cores staged in a series of interconnected blade arrays as well as 1.8 petabytes of storage. Dedicated disc-space in the amount of 30 TBs will be allocated for long-term storage of all preliminary and finalized data resources produced by this effort.

For long-term preservation, all final data and metadata will be transferred to a national data center. The data developed in this project will be open source and licensed in the public domain. The planned archive for the data collected by this effort is the Research Workspace's DataONE Member Node. The Research Workspace hosts an integrated system for automating dataset submission to the NSF-sponsored DataONE federation of data repository. The Research Workplace supports and issues Digital Object Identifiers (DOIs), so datasets can be confidentially referenced in the published literature. Upon final permission from the project PI at the end of the project term, final data or data products will be submitted for archive with technical support by Axiom data management staff to ensure appropriate use and compliance with the data center archive requirements."

### 4. COORDINATION AND COLLABORATION

# A. With Other EVOSTC-funded Projects (if applicable)

If applicable, please indicate if the proposed project relates to, complements, or includes any collaborative efforts with past or current projects funded by the EVOSTC. This likely does not apply to many habitat projects.

Project work and the products from this project will benefit any ongoing or new work supported by EVOSTC by creating access to an accurate set of data that meet national mapping standards.

# B. With Trustee or Other Management Agencies or Organizations

Please discuss if there are any aspects which may support EVOSTC trust or other agency work, or which has received EVOSTC funding previously. Describe any agency feedback or direction received, including the contact name of the agency staff.

If the proposed project requires or includes collaboration with other agencies or organizations to accomplish the work, such arrangements should be explained, and the names of agency or organization representatives involved in the project should be provided. If your proposal is in conflict with another project or program, note this and explain why.

This project will support any EVOSTC trust or other agency work in the future by providing standardized data, both geographic and attribute information, that will become the base platform for scientific and resource information of the PGC region

### C. With Alaska Native and Other Local Communities

Please describe efforts at outreach and to involve local and Alaska Native communities, tribes or Native corporations in the project, as appropriate, and include your plan for communication and coordination as the project advances.

PGC has worked with the Native Village of Port Graham on several fronts. Recently, we participated in a Joint Meeting with our Board of Directors and the Tribal Council members of the PGVC on a large airport and road project that is early in the planning process. We've supported several programs in the community through the Village Council on Heritage and Language Preservation as well as donations to efforts to increase literacy within the community.

We have also been working with both of our neighboring villages, Nanwalek and Seldovia in efforts to improve wildlife and habitat. Those efforts have significantly reduced the amount of poaching and trespass over the last 4-years, which has also had substantial impact on the return of local black bear populations that were frequently taken illegally by hunters committing trespass, and game violations.

We are also in the early stage of participation in a study under way with Seldovia to study existing habitat to introduce new wildlife species, which would help replace subsistence food sources depleted by the Spill.

We are also working with Nanwalek to develop a joint committee on efforts to complete, and then develop cooperative agreements on operations and traffic management for the new regional airport.

### 5. DELIVERABLES

List and describe expected products that will come from this project. Deliverables may include but are not limited to active restoration results, habitat protection or enhancement obtained, maps, photographs, financial reports and other documentation of projects in progress and completed, and summaries of benefits achieved for spill recovery and restoration objectives. Annual written progress reports are due on March 1 immediately following the end of the EVOSTC fiscal year and a final report is due on March 1 in the year following the last fiscal year of the project. See the Council's <u>Reporting Policy</u> for details and forms. The Project Manager will be responsible for all deliverables unless otherwise noted below.

Deliverables for this project include:

Needs Analysis Report GAP Analysis Report Facility Management and Maintenance Plan Geospatial Database and Land Management Files Technical Paper on Subsistence Use in Port Graham Confidential Subsistence Maps

### 6. STATUS OF SCHEDULED PROJECT ACCOMPLISHMENTS

*Milestones* are the major steps to meet overall project objectives.

<u>Tasks</u> are intermediate steps to meet milestones (for example, initial project planning, design, engineering and construction phases and schedules, if applicable, due diligence and other necessary steps or stages to complete the project work). Deliverables are products that will be produced from the project (see section 5 above).

List each project milestone, task, and deliverable in the chart (examples are shown below), and specify by each quarter of each year when these are anticipated to be accomplished. C = completed; X = planned work is underway, but not yet completed. Show project milestones and planned task progress by fiscal year and quarter, beginning February 1, 2022. Fiscal Year Quarters for each year of the project are: I = Feb. I - April 30; I = September 2 = September 3 = Septe

	FY22			FY23			FY24			FY25				FY26						
Milestone/Task	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Milestone: Need	X	X	С																	
Analysis	Λ	Λ	C																	
Task: Inventory	X																			
available data	Λ																			
Task: Establish																				
available cadastral	X																			
and control	Λ																			
monuments																				
Task: Land Records																				
Preservation &	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Maintenance																				
Milestone:																				
GeoSpatial	X	X	X	С																
Framework																				
Task: Framework	37	37																		
design	X	X																		
Task:																				
Implementation &		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Maintenance																				
Milestone: Gap																				
Analysis	X	X	X	X	X	X	С													
Task: ID baselevel																				
requirements for	X																			
database	11																			
Task: ID data																				
requirement,																				
equipment and		X																		
training needs																				
Milestone: Low																				
Impact Field work		Y	X	C																
at facilities		Λ	Λ																	
Task: ID equipment																				
and upgrade needs		X																		
Task: Install																				
equipment and			X																	
infrastructure			Λ																	
Task: Maintain																				
facilities				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Milestone:																				
Traditional																				
Subsistence Area				X	X	X	X	X	C											
products																				
Task: Create																				
				X	X															
household survey																				
Task: Conduct					X	X														
household interviews								<u> </u>						<u> </u>						

		FY	<b>22</b>			FY	<b>23</b>			FY	24			FY	<b>25</b>			FY	<b>26</b>	
Milestone/Task	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Task: Compile and						37	37													
enter data						X	X													
Task: Create and							37	37												
review products							X	X												
Milestone:																				
GeoSpatial Data		v	37	37	v	v	v	v	37	37	W	37	v	v	v	v	37	v	37	W
Collection &		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Creation																				
Task: LiDAR,																				
satellite, coastal																				
inventory																				
Task: Process																				
hardware, software																				
and contract labor																				
Milestone:																				
Maintain, publish																				
and Cooperation																				
Task																				
Task																				
Reporting:																				
Annual																				
progress					X				X				X							
report																				
FY work plan				X																
Final																				
report/Project																				X
results																				
<b>Deliverables:</b>																				
Needs Analysis			С																	
Report					L	L		L						L		L				
Gap Analysis Report						С														
Facility																				
Development/Mgt.					С															
Plan																				
GIS Data Base for																				C
Land Mgt. Files																				С
Confidential																				
Subsistence Maps									С											

### 7. PROJECT BUDGET

# A. Budget Forms (Attached)

Please attach completed budget forms using Excel workbook for each EVOSTC fiscal year (Feb. 1 to Jan. 31) of the project and provide adequate financial details. Projects may be from one to five years in duration. Include 9% GA (General Administration) for each budget item, except for habitat parcel purchase proposals, which do not include GA. Include a narrative to explain the anticipated funds release schedule for multi-year projects, and indicate whether annual releases are requested or a different schedule. Summarize funding for each fiscal year in the Budget Summary Table below, and Include a screen shot of the "Summary" budget in the proposal.

Budget Category:		Proposed	Proposed	Proposed	Proposed	Proposed	5-YR TOTAL
		FY 22	FY 23	FY 24	FY 25	FY 26	PROPOSED
Personnel		\$874,452	\$741,204	\$741,204	\$741,204	\$741,204	\$3,839,268
Travel		\$37,332	\$36,476	\$36,236	\$20,904	\$17,832	\$148,780
Contractual		\$935,000	\$500,000	\$15,000	\$150,000	\$90,000	\$1,690,000
Commodities		\$0	\$0	\$0	\$0	\$0	\$0
Equipment		\$698,400	\$35,000	\$25,000	\$50,000	\$25,000	\$833,400
Indirect Costs (6%)		\$110,807	\$76,661	\$47,546	\$54,726	\$50,942	\$340,683
	SUBTOTAL	\$2,655,991	\$1,389,341	\$864,986	\$1,016,834	\$924,978	\$6,852,131
General Administration (9%	of subtotal)						
General Administration (970	oi subtotai)	\$239,039	\$125,041	\$77,849	\$91,515	\$83,248	\$616,692
P	ROJECT TOTAL	\$2,895,030	\$1,514,381	\$942,835	\$1,108,350	\$1,008,226	\$7,468,823

### F. Sources of Additional Funding

Please identify any non-EVOSTC sources of funds or in-kind contributions that would be used as cost-share for the project. List each source, the amount of funds from each source, and the purpose for which the funds will be used. Do not include funds that are not directly and specifically related to the work being proposed in this proposal. Please attach documentation from additional project funding sources which confirms and describes matching or other leveraged funds, including date(s) the non-EVOSTC funds are/will be authorized and received, and any conditions on their use.

Non-EVOSTC Funds to be used for this project, please include source(s) and amount and timing per source, and any conditions on their use:

FY22	FY23	FY24	FY25	FY26	FY22-26 Total
PGC	PGC	PGC	PGC	PGC	
\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$600,000

Although we do not currently have additional funding sources committed, PGC is actively searching for additional funds to help with this project. PGC will be contributing some funds regardless of the outcome from other sources and has been working to improve habitat in our region with a variety of efforts, all without funds from other sources. In-kind contributions for this project will include office and work space, internet and phone access and use of PGC office resources and personnel. PGC will also be providing some of the travel and related expenses for the improvements to camp facilities, a portion of grant management team salaries and general support for the project.

### 8. PROJECT MANAGEMENT AND PERSONNEL

### A. Project Management

List names of the Project Manager, the primary fiscal agent for the project and any other key partners associated with the project. List any property owners, businesses, cooperating entities (non-profit or other) and government agency personnel that will be involved and their role on the project.

Project Manager: Steve Colligan, Geospatial Director, PGC

- PGC will be responsible for providing access to community records within PGC lands.
- PGC is the landowner for all project work

Fiscal Agent: Jon Shepherd, CEO, PGC

• For the purposes of this proposal PGC will serve as the primary fiscal agent.

Technical Lead: Anke Gleitsmann, Phd, 3GLP E-Terra

• Responsible for collection and generation of data base and land information files.

Remote Sensing and LiDar Director: Anke Gleitsmann, 3GLP E-Terra

• Responsible for spatial data and LiDar processing

### **B.** Personnel Qualifications

The Resumes of the lead proposer(s), Project Manager and other senior personnel involved in the proposal must be attached. Each resume is limited to **two** consecutively numbered pages and must include the following information:

- A list of present and past employers and affiliations, professional credentials, mailing address, and other contact information (including e-mail addresses and telephone numbers).
- A list of prior projects and persons (including their organizational affiliations) including contact information, with whom the lead proposer(s)/Project Manager has collaborated on a project within the last four years. If there have been no collaborators, this should be indicated.

Note that we may contact the persons listed for additional information.

### **Appendix A: Additional Information**

# A. Information on organization Proposers

# **Description of Organizational Proposer**

Formed under the Alaska Native Claims Settlement Act (ANCSA) in 1971, The Port Graham Corporation (PGC) is an Alaska Native Corporation, representing the Sugpiag people from the Village of Port Graham. Under ANCSA, in 1974, the people of Port Graham selected 107,540 acres of land, 63,000 acres adjacent to the Village of Port Graham and 44,000 acres located within the Kenai Fjords National Park, home to the ancestors of PGC Shareholders. PGC is one of the largest landowners in the Spill-affected areas, owning nearly 200 miles of coastline – all injured by the EVOS in 1989.

# Past, current and future sources of funding

Funding for most PGC activities comes from operating profits of the business development and commercial efforts of the company, revenue from government contracting.

# Current staff size and expertise

PGC is the parent company of a family of subsidiary companies, including three ANC 8(a) certified small businesses, two graduated 8(a) firms and four Joint Venture entities generating revenue from government and commercial contracting, primarily in the lower United States. With offices in Alaska, Washington, California, New Mexico, South Carolina, and Virginia, PGC is growing its Government Services capability by geographical expansion along with providing an expanded suite of service offerings providing construction, engineering, communications, and technical services to a growing list of agencies include DOJ, DOI, DOE, DHS, and DOD. This, in addition to regional services offered by our Fuel Depot, General Merchandise and a growing fleet of boats now offering cargo and personnel service in our home region.

Port Graham Corporation, along with its subsidiaries, employ a staff of over 40, with 11 employees in the administration and finance functions to support operations. Our key management team has decades of technical experience in a wide range of services with the PGC Team, while also bringing critical experience from projects while working for other entities prior to joining PGC. This includes notable projects like a \$20M Data for the White House, a \$50M FAA Project in Alaska providing site prep and equipment installation for their primary state-wide communications network, and a 100-site NWS Weather Observation Network with 50 sites in AK and the rest in CONUS and foreign locations. Projects undertaken by current PGC firms have covered sites in Alaska and almost every state in the union.

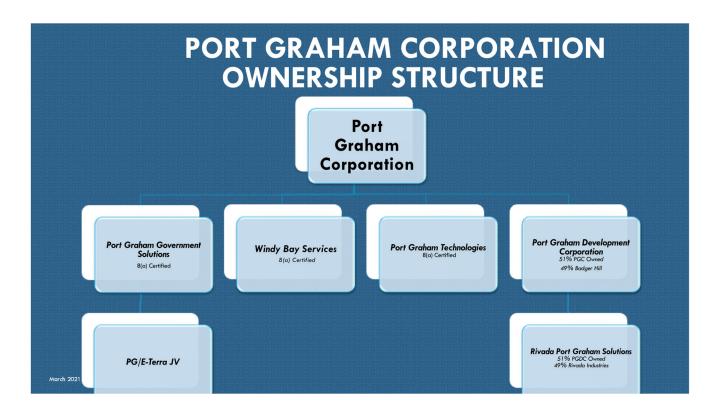
# **Audited financial statements**

See attached.

# Organizational Capacity

PGC owns roughly 50,000 square feet of office, retail, warehouse, commercial, housing, and industrial building in the Village of Port Graham. We also have a long-term lease on roughly 6,000 square feet of Class Commercial Office space in our new Anchorage Headquarters, plus a smaller facility in the mat-Su Valley. This is in addition to the office spaces we have established in the lower US. We maintain full-time Administrative Office Staff doing all our payroll, AP, AR, and general accounting in-house staff, which is subject to audit on an Annual basis by the accounting firm of BDO. We maintain sufficient cash reserves to handle all current and anticipated workload and maintain an adequate surplusline of credit to cover anticipated growth. Software, hardware, and IT support equipment is owned or provided with long-term leases, and we are in the process of installing a new file server for our government contracting and corporate office support that is maintained by in-house IT professional engineers who work with our government contracting support team.

An Organization Chart is provided below to cover much of our asset base, which lists 6 of our 9 contracting entities. PGC has also established a "Settlement Trust" which is formed to provide a "Permanent Fund" mechanism for current and shareholders. Additionally, PGC started and funds a certified non-profit, which is dedicated to providing services to shareholders of the Village Corporation.



### Institutional Statements

This Project Proposal and proposed related activities are consistent with the founding and authorizing documents of the Port Graham Corporation.

# Ton Shepherd E-Signature

Jon Shepherd, PGC, CEO

Date 8-20-2021

# Project lead and key staff

# Project Manager, Project Technical Lead: Steve Colligan

Steve Colligan brings with him an extensive knowledge of business development, project management, computer and database system consulting, and GIS programming. Mr Colligan has 30 years of geospatial data industry experience. Mr Colligan has been the founder and key architect in many Geospatial projects in Alaska and around the world, since 1984. With clients from federal, state and local governments to large Utility and Energy enterprises.

# Project Fiscal Officer: Jon Shepherd

Mr. Shepard provides Executive Management and oversight of the ongoing activities of PGC and has been directly involved with the acquisition and successful implementation of more than \$500M in government and commercial contracts. Resume attached.

# Remote Sensing and LiDAR Director: Anke Gleitsmann, Phd

Mrs. Gleitsmann's primary role at 3GLP E-Terra is to perform spatial data processing (high resolution satellite image orthorectification, mosaicking, color balancing / visual enhancements; LiDAR processing; Structure from Motion processing of UAS acquired imagery; elevation data processing); she's also using software including ArcGIS, PCI Geomatica, Pix4D, Bentley MicroStation / Terrasolid and Global Mapper for spatial analysis, mapping and visualization. Anke oversees the production facility and seasonal staff that make up our production facility running 2 shifts.

# Remote Sensing - Vegetation Mapping Jeff Campbell

Mr. Campbell has nearly thirty years of experience in utilizing Remote Sensing and GIS technology to develop creative solutions for natural and cultural resource management problems. Specifically, during the past twenty-five years, Mr. Campbell worked with Spatial Solutions, Inc. and Pacific Meridian Resources developing state-of-the-art applications of remote sensing and GIS to real world issues. While at Pacific Meridian Resources, Mr. Campbell served as a Remote Sensing Analyst, Project Manager, and ultimately Corporate Vice-President and Manager of Northwest Operations for the firm's Portland, Oregon office. Mr. Campbell's extensive and varied experience in the development and application of spatial solutions to natural and cultural resource challenges provide him with unique skills and insight into the spatial information and analysis needed to achieve desired resource management goals.

# Data Modeling: Achim Hettel

Achim Hettel brings to E-Terra a diverse range of GIS Application and Data Development projects specializing in the application and incorporation of Cartography and Geomatics sciences for use engineering, database development and mapping applications. At E-Terra, Mr. Hettel currently is involved in several ESRI data modeling and GIS application development projects. Mr Hettel has a Masters Degree in GIS and is well versed in complex data modeling, geospatial data development in both commercial software applications and OpenSource development environments. Mr. Hettel will provide the lead in data modeling and application architecting the geospatial servers, application and data mobile devices.

### IT Infrastructure

Port Graham Corporation Headquarters is on the 6<sup>th</sup> floor of the Dimond Center of the Executive towers in south Anchorage. The Dimond Center is the terminus for fiber optic connections for several Communications providers. PGC HQ has a dedicated IT/ Communication room equipped with servers, security firewalls and highspeed data links that provide integration between the 4 offices in the continental USA and the Port Graham Village.

PGC administration is skilled at self-performing and supporting a centralized IT infrastructure for its subsidiary's companies, village facilities and Utilities in the village. PGC does so, through local infrastructure at each location, dedicated or cloud-based infrastructure for connectivity and mobile infrastructure for data collection and project reporting. IT capabilities cover Voice over IP phone and video connectivity, adequate data bandwidth to connect and provide redundancy and allow for provide for a mobile workforce than now work from home or on the go.

PGC subsidiaries provide IT infrastructure and support to Federal secure agencies such as Homeland Security, US Border Protection, Department of Justice and are well versed in data and communications

security. PGC through its Joint Ventures in construction and geomatics, has extensive capabilities in Design, Mapping, GIS, Construction, and Facilities management.

PGC Joint Venture PG-ET with 3GLP,E-Terra & Precision Flight Devices (PG-ET.com) brings 30yrs of Alaska as well as national and international GIS project experience in Image processing, remote sensing, LiDAR, and extensive sUAS remote operations.

# B. Prior experience with EVOSTC

# Past EVOSTC funded projects

PGC has not received any EVOSTC funds for project before now.

# Institutional Signature

As a representative of the Port Graham Corporation, I certify that PGC staff and management and read and clearly understand the EVOS Trustee Council's founding document and the policies and procedures that are relevant to this proposal. There are no conflicts between the Council's policies and procedures and those of PGC.

Ton Shepherd E-Signature

Jon Shepherd, PGC, CEO

Date 8-20-2021

# C. Current Funding Sources

# **Current Activities**

The Port Graham Corporation provides funding for these activities mainly from operating profits from our business development and commercial efforts. Additional information of financial data is included above.

### Matching Funds

Although we do not currently have additional funding sources committed, PGC is actively searching for additional funds to help with this project. PGC will be contributing some funds regardless of the outcome for other sources. Additionally, PGC has been working to help improve habitat in our region with a variety of efforts, all without funds from other sources:

PGC has been routinely making trips by helicopter, fixed wing aircraft and vessel to our remote lands in both the Kenai Fjord National Park and our lands on the outer coast of the lower Kenai Peninsula. These trips provide the ability to inspect the lands for any abuse or illegal activity, and also help in our ability to maintain the limited structures that we currently operate in those two areas.

PGC has converted a 1,200-acre area in Aialik Bay to a restricted and protected Sanctuary Status, which significantly reduces the likelihood of habitat degradation by overuse of tourists and other travelers who might attempt to destroy that segment of land.

PGC is working to buy back individual allotment parcels from shareholders who desire to sell their land. This is an effort to maintain the integrity of the private and protected lands in our region.

Over the past 5 years, PGC has expended approximately \$33,000 to develop maps and tools in preparation for this project. We are also routinely developing our existing database of maps and GIS material with in-house funds.

To date, these combined efforts have been supported by over \$550,000 of money provided by PGC in our efforts to continue our dedication to habitat improvement since the spill.

### D. Collaboration/Coordination

# Experience with state, federal, municipal & private entities

2019: PGC was notified by Petro Marine and their fuel delivery firm, Kirby Offshore Marine, that they will no longer tie up to our dock for fuel deliveries to Port Graham. The original dock in Port Graham was built bench, community for profit and nonprofit partners, in delivering services to customers in Recovery. Assisted in developing the framework for alterations to the project scope and worked with all stakeholders and customers in launching the altered project to meet objectives. And administered a Community action program for the Federal government that spanned 9 communities and coordinated with boroughs as well as municipal governments throughout the project.

2018: PGC procured and placed a 20,000 lbs mooring buoy to aid in delivering fuel to the community of Port Graham. For this effort, we worked with our Commercial partners, CISPRI, and the Village council on capabilities and logistics.

2013: PGC worked with community for profit and nonprofit partners and the federal government, in delivering services to customers in Recovery. Assisted in developing the framework for alterations to the project scope and worked with all stakeholders and customers in launching the altered project to meet objectives.

2004-2007 PGC administered a Community action program for the Federal government that spanned 9 communities and coordinated with boroughs as well as municipal governments throughout the project.

We routinely perform cooperative testing with the U.S. Coast Guard of fuel lines in our tank farm and the to connection the dock bulkhead. We also store oil spill cleanup material in containers at our dock a a courtesy for the Coast Guard, and support training events for future spills

# Experience with Native corporations, local and tribal communities

PGC has worked with the Native Village of Port Graham on several fronts. Recently, we participated in a Joint Meeting with our Board of Directors and the Tribal Council members of the PGVC on a large airport and road project that is early in the planning process. We've supported several programs in the community through the Village Council on Heritage and Language Preservation as well as donations to efforts to increase literacy within the community.

PGC has been working with both of our neighboring villages, Nanwalek and Seldovia in efforts to improve wildlife and habitat. Those efforts have significantly reduced the amount of poaching and trespass over the last 4-years, which has also had substantial impact on the return of local black bear populations that were frequently taken illegally by hunters committing trespass, and game violations.

We are in the early stage of participation in a study under way with Seldovia to study existing habitat to introduce new wildlife species, which would help replace subsistence food sources depleted by the Spill.

PGC is working with Nanwalek to develop a joint committee on efforts to complete, and then develop cooperative agreements on operations and traffic management for the new regional airport.

### Outreach Plan

Port Graham Corporations team will have a multi-prong approach to public outreach, that covers local communications and knowledge in Port Graham community; Communications with other Port Graham non-profit and regional corporation entities; Communication within the statewide Alaska Native community organizations; and communications with the regional scientific community. The technical team will communicate and share data with local and national science and data infrastructure agencies, and work towards proliferation of updated information to be used broadly within the technical/ scientific

community. The technical team will participate in technical geospatial workshops and peer review data sharing activities at the local, state, and national level to maximize the investment, use and lessons learned in these foundational conservation efforts. Lastly, PGC and its team, will publish its experience and knowledge and these effects it will make toward the long-term sustainability and management of its lands and resources.