

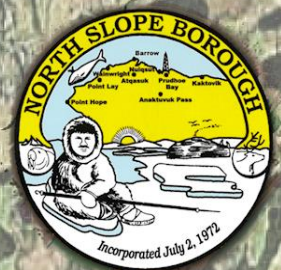
# *Oil and Gas Forum*

**NORTH SLOPE BOROUGH**

## 2018 Summary Report

**Continuing the Dialog**

*Anchorage Alaska*  
*June 14, 2018*





# North Slope Borough 2018 Oil and Gas Forum

## *Continuing the Dialog*

June 14, 2018  
Anchorage Alaska

Harry Brower, Jr., Mayor  
Gordon Brower, Planning Director

### Conference Organizing Committee

**Matt Dunn**, Deputy Planning Director  
**Jason Bergerson**, Assistant to the Land Management Administrator  
**Seeseei Pili**, Division Manager, Department of Planning and Community Service  
**Glenn Gray**, Glenn Gray and Associates, North Slope Borough Consultant  
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*Photo Credit: Photographs of the Forum courtesy of Tom Lohman*

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# North Slope Borough

## MAYOR'S OFFICE



On behalf of the North Slope Borough, I wish to thank everyone who attended the 2018 Oil and Gas Forum. Following the two previous forums sponsored by the Borough, this forum brought together people from North Slope municipalities, tribes, Native corporations, industry, and state and federal agencies.

As I reflect on the discussions during the forum, I am encouraged by the new opportunities from recent oil and gas leasing efforts, recent discoveries and newly planned development. The forum provided an opportunity to identify ways to reduce local impacts by consolidating facilities, reducing duplication and mitigating impacts. I was encouraged by the commitment of the agencies to reduce the “meeting burnout” voiced by many people in our communities. We look forward to working with agencies to reduce impacts by holding joint meetings and by sharing public comments.

The theme of the 2018 forum, “Continuing the Dialog,” reflects work that is being done to step outside of the specific missions of our agencies and organizations to look at the bigger picture. Memoranda of Understanding between the Borough and state agencies establish a framework to work together during land use planning, permitting and ongoing land management activities. During this year’s forum, we made a commitment to work with the U.S. Department of the Interior to develop a similar agreement.

At the end of the forum, participants agreed that forums should be held every two years augmented by meetings on special topics such as decommissioning, removal and restoration (DR&R), expansion of services to new development areas, and revisions to the Borough’s zoning code. Regarding DR&R, we must work together to ensure there will be adequate funds available to decommission facilities and to identify infrastructure that may be appropriate for repurposing. On the topic of future utility needs, the Borough looks forward to continuing discussions on how it may expand services to these areas. Once the State of Alaska North Slope Management Plan is completed, the Borough will be able to select additional land for use in providing services to new development areas.

Until the next forum, I urge all stakeholders in the North Slope to continue the dialog by keeping others informed about their activities and by seeking opportunities to continue meaningful communication.

Sincerely,

A handwritten signature in blue ink that reads "Harry Brower, Jr." in a cursive style.

Harry Brower, Jr.  
Mayor

**North Slope Borough Oil and Gas Forum  
June 14, 2018 Anchorage, Alaska**

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**List of Abbreviations**

ANILCA	Alaska National Interest Lands Conservation Act
ANWR	Arctic National Wildlife Refuge
ASRC	Arctic Slope Regional Corporation
ASTAR	Alaska Strategic Transportation and Resources Program
BIF	Best Interest Finding
BLM	Bureau of Land Management
BOEM	Bureau of Ocean Energy Management
BSEE	Bureau of Safety and Environmental Enforcement
CWAT	Community Winter Access Trails
DOI	U.S. Department of the Interior
DOT&PF	Alaska Department of Transportation and Public Facilities
DNR	Alaska Department of Natural Resources
DR&R	Decommissioning, Removal and Restoration
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
GMT	Greater Mooses Tooth (a development project in NPR-A)
LLC	Limited Liability Corporation
MOU	Memorandum of Understanding
NEPA	National Environmental Policy Act
NPR-A	National Petroleum Reserve-Alaska
NSMP	North Slope Management Plan (a DNR area plan)
NSB	North Slope Borough
OCS	Outer Continental Shelf
RMP	Resource Management Plan
UIC	Ukpeaġvik Iñupiat Corporation (Barrow Native Corporation)
USFWS	U.S. Fish and Wildlife Service

# North Slope Borough 2018 Oil and Gas Forum

## Anchorage, Alaska – June 14, 2018

### Executive Summary

The North Slope Borough (NSB or Borough) sponsored the 2018 Oil and Gas Forum on June 14 in Anchorage. The forum focused on five topics: Summary of accomplishments since the 2016 forum, update on state and federal lease sales, agency planning efforts on the North Slope, planned revisions to



Alaska Governor Bill Walker

the Borough's Title 19 Zoning Code, and planning for future utilities. The forum concluded with an open microphone session where participants identified their priorities for future action. The primary recommendations identified by participants during the forum include:

- **Agency Coordination:** Continue agency coordination for planning and management activities, continue implementing the MOUs between the Borough and state agencies, and create a new MOU with the U.S. Department of the Interior.
  - **Public Outreach:** Reduce meeting burnout for villagers by combining agency public meetings, developing a similar schedule for agency planning efforts, and creating an automated tool to post comments. Post the Borough's community outreach plan used for strategic planning on the website.
  - **Decommissioning, Removal and Restoration (DR&R):** Start planning now, identify facilities that should be repurposed, and ensure companies have adequate funds to complete DR&R when oil and gas activities cease.
- **Mitigation of Impacts:** Find innovative ways to address impacts from oil and gas activities and seek opportunities to reduce duplication by sharing roads, VSMs and other facilities.
  - **Local Resources:** Develop an inventory of village resources, such as gravel.
  - **Transportation:** Continue transportation corridor planning, expand snow roads to all communities, and consider a commercial marine transportation corridor to protect whaling activities.
  - **Future Utility Needs:** Continue planning for future utilities, including expansion of Borough facilities and services.
  - **Future Forums:** Hold forums every two years with additional meetings on specific topics such as DR&R, solid waste, and Title 19 revisions.

**Opening Remarks:** Governor Bill Walker, North Slope Borough Mayor Harry Brower, Jr., U.S. Department of the Interior Assistant Secretary for Land and Minerals Management Joe Balash, Alaska Department of Natural Resources (DNR) Commissioner Andy Mack, and Alaska Department of Transportation and Public Facilities (DOT&PF) Commissioner Marc Luiken gave opening remarks. The comments focused on the importance of involving North Slope residents in decision making, aligning agency plans, improving coordination among agencies, continuing recent transportation initiatives, and taking advantage of new oil and gas opportunities.

**Accomplishments since 2016 Forum:** Planning Director Gordon Brower highlighted accomplishments over the past two years, including a revision to the NSB-DNR MOU and a new NSB-DOT&PF MOU. He mentioned new discoveries and planned development. Mr. Brower spoke about transportation-related initiatives, including the Borough's Community Winter Access Trails (CWAT) program and the Alaska Department of Natural Resources Arctic Strategic Transportation and Resources (ASTAR) Program. He said the Borough has completed most of the village comprehensive plans and is beginning on a revision to the areawide Borough comprehensive plan. He mentioned other state and federal agency plans that will be discussed later in the forum. Director Brower identified areas where more work is needed, including coordinated public outreach by agencies, more attention to Decommissioning, Removal and Restoration requirements, and the revision to the Borough's Zoning Code.

**Alaska Oil and Gas Lease Sale Updates:** Patricia LaFramboise of the Bureau of Ocean Energy Management (BOEM) began this session by describing plans to develop a new National Outer Continental Shelf plan to replace the existing one. She said the next sale is planned for December 2019 in the Beaufort Sea Planning Area. Regarding state sales, Chantal Walsh of the Alaska Department of Natural Resources said the State conducts lease sales annually for the Cook Inlet, Alaska Peninsula, North Slope, North Slope Foothills, and the Beaufort Sea areas. Ted Murphy of the Bureau of Land Management provided updates about the National Petroleum Reserve-Alaska (NPR-A) sales saying there are currently 196 leases covering about 1.5 million acres. Mr. Murphy also provided details about the scoping process for opening up the Coastal Plain of the Alaska National Wildlife Refuge (ANWR) to leasing.

**Multiple Planning Efforts and Synergies:** Matt Dunn of the NSB began this session by summarizing recent efforts to build snow roads to North Slope communities linking them to the road system. Andy Clarke of the Alaska Department of Natural Resources provided details of the Arctic Strategic Transportation and Resources program which is a community-driven planning project to expand transportation systems on the North Slope to reduce local costs and provide more job opportunities. Ryan Anderson of the DOT&PF said his agency is currently updating the 2004 Northwest Alaska Transportation Plan which includes the North Slope Borough. Serena Sweet of the Bureau of Land Management said her agency is updating the 1986 Central Yukon Resource Management Plan which includes some federal lands on the North Slope. Monica Alvarez of the DNR closed the session with an update on the first North Slope Management Plan. She said the plan will result in land classifications which are needed before land can be conveyed to the Borough under the Municipal Land Entitlement Program. The discussion during this session resulted in recommendations for agencies to work closer during public outreach efforts to reduce meeting fatigue, develop an inventory of local resources such as gravel, and develop a marine transportation corridor that protects whaling activities.

**Revising the North Slope Borough Zoning Code:** Staff provided details about proposed changes to the Borough's Title 19 zoning code which has not received a substantial update in over 25 years. The Borough will use a phased approach with the first phase focusing on mostly minor changes to correct outdated

information and to provide more clarity. Representatives of the oil industry provided comments on a proposed change that will require permits for tundra travel for the maintenance of existing or approved development. Another change of interest clarifies that approvals carry over to new owners and that the Borough may require a surety from new owners and a new or amended reclamation plan when ownership changes. The Borough plans to bring the proposed new changes before the Assembly by Thanksgiving.

**Future Utility Needs:** Fadil Limani of the North Slope Borough Department of Administration and Finance provided an overview of services currently provided through Service Area 10, a Borough-managed utility that provides water, wastewater and solid waste disposal services for the Prudhoe Bay and Kuparuk oil fields. The discussion during this session focused on how the Borough may respond to future utility needs for new areas of development in the NPR-A and potential development in ANWR. Planning is needed to add future needs, especially for development in the NPR-A where landfills are prohibited on federal land. Participants also discussed the need to reduce duplication of roads and facilities and the need to begin planning for DR&R now including which facilities could be repurposed.



**Delbert Rexford, Charlie Brower and Cindy Bailey**

**Priorities for Future Collaboration:** During this open microphone session, participants recommended next steps for working together among the Borough, its residents, industry, and state and federal agencies. They agreed forums should be held every two years with additional topic-specific meetings such as DR&R, waste management and proposed zoning code changes. Someone recommended future forums be scheduled for two half days rather than one full day and possibly hold them in conjunction with existing meetings such as the winter and summer project update meetings. Regarding utilities, several participants noted the distance between new exploration and development areas and existing facilities. A number of participants emphasized the need for improving outreach to villages, including more coordination among agencies, creation of a database to post comments, and the importance of speaking in layman’s terms. One participant accentuated the need for more drilling to delineate the oil and gas noting that there is more excitement in the Lower 48 about the North Slope than there is in Alaska.

**Closing Remarks:** Mayor Brower thanked everyone for attending the Forum. He encouraged participants to step outside their day-to-day routines to consider the bigger picture. The Mayor urged everyone to continue to look for new synergies, opportunities to forge new partnerships, and incremental things that can be done to address the growing list of recommended actions. He recommended pursuing an MOU with the U.S. Department of the Interior and holding specific meetings on topics such as DR&R, reducing impacts to village residents, sharing infrastructure, reducing duplication, and developing new ways to mitigate impacts. He closed his remarks by urging everyone to keep others informed about their activities and to take advantage of opportunities to continue meaningful communication.

# North Slope Borough 2018 Oil and Gas Forum Anchorage, Alaska – June 14, 2018

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# North Slope Borough 2018 Oil and Gas Forum

## Anchorage, Alaska – June 14, 2018

### Final Report

#### 1. Invocation and Welcome

North Slope Borough (NSB or Borough) Planning Director Gordon Brower introduced Borough Mayor Harry Brower, Jr. who gave the invocation. The Mayor then introduced Governor Walker.

#### 2. Opening Remarks from Governor Walker

Governor Walker shared anecdotes about his recent travels to the North Slope and Northwest Arctic boroughs. He said participating in the blanket toss was one of the highlights of his life. He continued by expressing support for opening the 1002 area of the Alaska National Wildlife Refuge (ANWR) to oil and gas exploration, and he mentioned that the last public hearing on scoping process for ANWR would be held the following day. The Governor remarked that no one can take care of the land better than the people who have lived there for 10,000 years. He said he learned from Lieutenant Governor Byron Mallot that there is a time to speak and a time to listen, and he recognizes this value when visiting communities, including a recent trip to Nuiqsut. The Governor spoke about the natural resources of the state, saying that if Alaska was its own country, it would be the eighth richest country in the world. He said that Alaskans should have the cheapest energy costs, but instead residents have some of the most expensive oil and gas. Governor Walker spoke about work that has been done near the Red Dog Mine to reduce the cost of fuel for nearby communities. The Governor closed his remarks by speaking about work to market the vast natural gas resources of Alaska.

#### 3. Opening Remarks by Joe Balash, U.S. Department of the Interior

Joe Balash, Assistant Secretary for Land and Minerals Management for the Department of the Interior (DOI), opened his remarks by saying that it was good to be back in Alaska speaking before familiar faces. He said his time as Commissioner of the Alaska Department of Natural Resources was one of the best jobs he ever had. In his current job, he continues a connection to Alaska through the work of the Bureau of Land Management (BLM), Bureau of Ocean Energy Management (BOEM) and the Bureau of Safety and Environmental Enforcement (BSEE). Mr. Balash commented



Joe Balash, USDOI

that the U.S. is considered an Arctic nation only because of Alaska, and the DOI is the lead agency on many Arctic issues. He said there are a number of things his agency is working on that affect Alaska and that it is important to communicate with the State of Alaska and the Borough. Mr. Balash mentioned recent scoping meetings held in Utqiagvik, Venetie and Kaktovik on opening the Arctic National Wildlife Refuge to oil and gas leasing. He said people who commented at the Utqiagvik meeting reflected a high level of sophistication.

Mr. Balash continued his remarks by noting there is a lot happening in the western part of the North Slope that will help cement a bright future for Alaska. He noted that leasing began in the National Petroleum Reserve-Alaska (NPR-A) 20 years ago, and that the Greater Mooses Tooth (GMT) 1 project will soon be the first federal onshore production on the North Slope. He continued by saying the comment period recently closed for another nearby project, GMT2. He said there needs to be a review of whether additional acreage in the NPR-A should be opened to leasing and that the DOI is considering development of a new integrated activity plan.

Mr. Balash summarized DOI's recent efforts to amend the 5-Year Outer Continental Shelf (OCS) Oil and Gas Leasing Program. He said everything is on the table during the scoping process, and issues are narrowed down throughout the rest of the Environmental Impact Statement (EIS) process, such as identification of deferral areas. He also said the Chukchi Sea Planning Area would be included in the 5-year program.

Mr. Balash concluded by saying he hopes to be a bridge for NSB residents and federal agencies and to identify ways to avoid conflicts. He said he recognized the importance of helping the NSB improve the quality of life for residents such as DOI's cooperation with the Alaska Strategic Transportation and Resources (ASTAR) program.

#### **4. Opening Remarks by Mayor Harry Brower, Jr.**

Mayor Brower welcomed everyone to the third Oil and Gas Forum sponsored by the Borough noting the first forum was held in Utqiagvik in 2007 and the most recent forum was held in Anchorage in 2016. He said these forums are an excellent way to look at the bigger picture.

Mayor Brower said that during his last two years as Mayor, he often thought about the

recommendations from the previous forums. He added that the Borough has implemented some of those recommendations, including an update to the MOU with the Alaska Department of



**Borough Mayor Harry Brower Jr.**

Natural Resources and the creation of a new MOU with the Alaska Department of Transportation and Public Facilities. The Mayor continued by describing the Borough's public outreach program for village comprehensive plans which was developed using input from residents who attended the 2016 Forum. He also said the Borough implemented two transportation-related projects inspired by the forum: The Alaska Strategic Transportation and Resources (ASTAR) program and the Community Winter Access Trail (CWAT) program.

Mayor Brower said the Borough has sponsored the oil and gas forums to improve the dialog among stakeholders interested in North Slope oil and gas activities, including state and federal agencies, industry, non-governmental organizations, and North Slope residents. He noted the Borough is the only government agency with land use authority for all the lands and waters within the NSB's boundaries. The Mayor spoke about the large land base in the Borough and its importance in supporting the

subsistence way-of-life as well as oil and gas development.

The Mayor explained that this forum will focus on just a few topics and that more work will need to be done to address other recommendations from the 2016 forum. He mentioned a few of the topics that deserve more attention such as restoration of infrastructure when it is no longer needed, continuation of efforts to improve permitting and reduce duplication, exploration of innovative ways to mitigate impacts from oil and gas activities, and improved ways to communicate with residents to address their concerns. Mayor Brower concluded his remarks by thanking the participants for attending the forum.

## 5. Opening Remarks by Andy Mack, Commissioner, Alaska Department of Natural Resources

Commissioner Mack opened his remarks by discussing his previous role as a Borough employee in organizing the 2007 Oil and Gas Forum. He said there was a lot of oil and gas activity going on back then as a result of high oil prices, including

leasing in the NPR-A, planned Outer Continental Shelf lease sales, and planning for a natural gas line.

Commissioner Mack noted that once again, activity is increasing in the region, including new exploration and production, new interest in a gas line and planning for a lease sale in the 1002 area of ANWR. He emphasized the importance of the forum to encourage conversations and discussions. Commissioner Mack recognized



**DNR Commissioner  
Andy Mack**

that a lot is being asked of the people in the NSB to adapt to these changes and to work with the agencies. He said his agency will do everything it can to understand the concerns of Borough residents. The Commissioner reflected on advice of former Borough Mayor Edward Itta about the importance of balancing needs of subsistence users and oil and gas activities. He concluded his remarks by recognizing staff from the DNR attending the forum and his agency's commitment to work with the Borough through the current MOU.

## 6. Opening Remarks by Marc Luiken, Commissioner, Alaska Department of Transportation and Public Facilities

Commissioner Luiken began his remarks by saying he attended the 2016 forum and that one of the goals in his agency's strategic plan is to improve communication with rural Alaskans. He



**DOT&PF Commissioner  
Marc Luiken**

mentioned efforts to improve transportation in Northwest Alaska and that Alaskans must have a voice in the discussions regarding infrastructure and development. The Commissioner commented about the possibility of the NSB managing a system of airports on the North Slope

which is a topic that has been discussed since the 2016 forum. He mentioned cooperation among agencies in transportation-related projects such as the North Slope Management Plan, the Northwest Alaska Transportation Plan, and the Alaska Strategic Transportation and Resources (ASTAR) program. He said the ASTAR program focusses on where transportation connections need to be on the North Slope. He

concluded his remarks by emphasizing the importance of aligning the plans of agencies working on the North Slope so that they are not going in different directions.

## 7. Accomplishments Since 2016 Forum

Planning Director Gordon Brower began his remarks by reviewing the agenda. He mentioned the posters on the side of the room that summarized recommendations from the 2016 Forum, and he encouraged everyone to add comments about accomplishments since 2016 and priorities for next steps. Director Brower emphasized the need to keep working on the recommendations because there is a lot more work to be done.

Gordon Brower continued by highlighting accomplishments since the 2016 Oil and Gas Forum. He mentioned progress on continuing exploration and development projects including GMT1 and other projects by ConocoPhillips, Nikaitchuq North (ENI), Moose Pad (Hilcorp), Placer (ASRC), Mustang (Brooks Range Petroleum) and Badami/Starfish (Glacier Oil). He also mentioned new projects, including Nanushuk (Oilsearch), GMT2 (ConocoPhillips), Liberty (Hilcorp), new finds in Smith Bay (Caelus), the Alaska gas line, the new Outer Continental Shelf leasing program, and efforts to open ANWR to leasing.

Director Brower summarized efforts related to the Borough's MOU with the Alaska Department of Natural Resources and a new MOU with the Alaska Department of Transportation and Public Facilities. As a result of these MOUs, Borough staff has met regularly with those two agencies. Mr. Brower said an MOU with the U.S. Department of the Interior (DOI) was a priority from the last forum, and the Borough hopes to initiate efforts with the DOI to complete this MOU especially considering development projects in the NPR-A and efforts to open exploration in ANWR.



Planning Director Gordon Brower

Regarding transportation-related recommendations, Gordon summarized two programs initiated since the 2016 forum. First, the Borough partnered with the Alaska Department of Natural Resources to implement the Arctic Strategic Transportation and Resources (ASTAR) Program. He said this program focusses on future transportation links for the North Slope and that this topic will be discussed later in the day. Second he mentioned the Borough's Community Winter Access Trails (CWAT) program, an initiative to use snow roads to connect residents to the Dalton Highway which again will be discussed later on the agenda.

Regarding planning efforts for areas on the North Slope, Gordon said the Borough has completed most of the village comprehensive plans and is in the process of revising the Borough area wide comprehensive plan which includes a transportation and energy plan. He mentioned other planning efforts including the Northwest Alaska Transportation Plan (Alaska

Department of Transportation and Public Facilities), the North Slope Management Plan (Alaska Department of Transportation and Public Facilities), and the Central Yukon Resource Management Plan (Bureau of Land Management).

Director Brower summarized some needs regarding infrastructure and utilities as oil and gas activities move further west and east. He said the Borough believes that planning for future infrastructure and utilities needs to begin now.

Gordon Brower highlighted some of the communication improvements recommended at the last forum. He said a number of people recognized that in addition to requiring companies to communicate with villages, agencies themselves need to improve their outreach, including the use of social media. He also said many people expressed frustration with too many meetings, too little information before the meeting, and inadequate follow up. There is always a balance between adequate involvement and too many meetings. Director Brower continued by describing recent efforts by the Borough to improve its outreach to residents such as the communication plan used to encourage meaningful engagement during development of village comprehensive plans.

Regarding, DR&R (Decommissioning, Removal and Restoration), Gordon Brower said there has been little progress made since the last forum. He said more work is needed to ensure there will be funds available when it comes time to initiate DR&R while at the same time allowing flexibility to provide for possible future needs of the infrastructure. Director Brower said DR&R needs to be recognized as an ongoing process as infrastructure is no longer needed and that there needs to be a common understanding of what will need to be done to restore areas and identify what infrastructure should remain. He said that with changing ownership of some oil production fields, it is necessary to agree who is responsible for DR&R and to ensure they will

have the funds to do it. He also said it will be our children that will be saddled with the burden of DR&R if we do not do our job now.

Gordon Brower closed his remarks by discussing the Borough's plans to update its zoning code in phases, beginning with an effort to focus on minor changes to provide clarity, remove language that no longer applies, and to fix typographical errors. He said while some progress has been made since the 2016 forum, there is a lot of work yet to come.

## 8. Alaska Oil and Gas Lease Sale Updates

**Moderator:** **Faith Martineau**, Executive Director, Office of Project Management and Permitting, Alaska Department of Natural Resources

**Presenters:**

**Patricia LaFramboise**, Chief, Leasing Section, Bureau of Ocean Energy Management (BOEM)  
**Chantal Walsh**, Director, Division of Oil & Gas, Alaska Department of Natural Resources (DNR)  
**Ted Murphy**, Associate State Director of the Bureau of Land Management (BLM) in Alaska



**Chantal Walsh, Faith Martineau, Patricia LaFramboise and Ted Murphy**

Faith Martineau opened this session by saying she hoped the presentations will spark some interesting conversations. She introduced the panel for oil and gas lease sale updates.

## Outer Continental Shelf (OCS) Lease Sales

Patricia LaFramboise, Chief, Leasing Section, Bureau of Ocean Energy Management (BOEM) provided an update on OCS lease sales. Currently BOEM is working under the 2017-2022 National OCS Program, however, as directed by an April 2017 presidential executive order, BOEM has initiated a process to develop a new national OCS Program for 2019-2024 to replace the current program. Ms. LaFramboise said under the new program Alaska has a potential for 19 lease sales. She said there is an oil and gas lease sale scheduled for the Beaufort Sea in December 2019 and that the Call for Information for this sale resulted in 37,000 comments. She concluded by saying BOEM hopes there will be additional sales as a result of the new national program.

## State of Alaska Lease Sales

Chantal Walsh, Director, Division of Oil and Gas, Alaska Department of Natural Resources, provided an update on State of Alaska lease sales. She said state oil and Gas lease sales are held twice each year: Cook Inlet/Alaska Peninsula in the spring and North Slope/North Slope Foothills/Beaufort Sea in the fall. Statutes require a new Best Interest Finding (BIF) for each lease sale every ten years, with annual calls for new information to keep them current. The BIF includes an analysis of risks and benefits of oil and gas leasing and addresses wildlife, land features, and potential impacts of development. Director Walsh reported North Slope oil and gas activity has grown substantially during the past five years, and the fall 2017 sale brought in \$21.2 million in bonus bids – the third largest sale since areawide leasing began in 1998. Most of the interest was in state lands around the Nanushuk/Torok formations in the western area of the North Slope near the Colville River as a result of the Pikka, Horseshoe and Willow discoveries. Within the North Slope leasing area, about half of state lands are currently under lease so the State is focusing on active

management of units to encourage production. Director Walsh said the recent exploration season on the North Slope marked the most activity by ConocoPhillips in fifteen years, and new companies are coming to Alaska. Director Walsh concluded her remarks by saying that with increased activity in the NPR-A, the state is working with the federal government to manage state and federal units cooperatively. She also said the state is actively involved in the EIS process for the Alaska National Wildlife Refuge (ANWR).

## National Petroleum Reserve-Alaska (NPR-A) Lease Sales



**Ted Murphy, BLM**

Ted Murphy, Associate State Director of the Bureau of Land Management (BLM) in Alaska, provided an update on the 22.8 million-acre NPR-A. He said there are currently 196 authorized leases covering almost 1.5 million acres. The BLM received seven bids totaling almost \$1.2 million in a December 2017 lease sale with half the money going to the state. The next lease sale is expected to occur at the end of 2018. Mr. Murphy said the Greater Mooses Tooth 1 (GMT1) development will be the first production of oil on BLM-managed lands within the NPR-A. ConocoPhillips has completed construction of the pad, one well has been drilled and oil production is expected to begin

by the end of the year. He said up to 33 wells may eventually be drilled. A Final EIS is expected to be issued soon for a nearby prospect, GMT2. ConocoPhillips proposes to construct a 14-acre drill pad with up to 48 wells. A road and pipeline would connect GMT1 to GMT2 which is about eight miles away. Mr. Murphy concluded his presentation on NPR-A by noting new discoveries (e.g., Willow Prospect in the Bear Tooth Unit) and ongoing exploration by ConocoPhillips.

### **Alaska National Wildlife Refuge (ANWR) Leasing Update**

Ted Murphy, Associate State Director of the Bureau of Land Management (BLM) in Alaska, began his update on ANWR by saying federal legislation in 2017 directed the Secretary of the Interior to develop a competitive oil and gas program for the Coastal Plain of ANWR, also known as the 1002 Area. While the U.S. Fish and Wildlife Service (USFWS) manages surface lands of the refuge, the BLM manages subsurface areas and is the lead agency for the EIS. He said the last of seven public hearings for the EIS scoping process would be held in Washington D.C. on June 15. In addition to an EIS, an evaluation of subsistence impacts required by the Alaska National Interest Lands Conservation Act (ANILCA) will be appended to the final EIS. Mr. Murphy said that under the current schedule, the final EIS will be issued in spring of 2019. The EIS will include an analysis of alternatives, including lease sale tracts that will be offered for sale, lease stipulations, and best management practices that will be required. Cooperating agencies in the EIS process include the USFWS, the State of Alaska, the NSB, and the Environmental Protection Agency (EPA). Mr. Murphy concluded his presentation by saying comments on the scoping process will be accepted through June 19.

Mr. Murphy answered a question about North Slope community funding from the expected 50% revenue sharing with the State of Alaska by

saying that the state will handle how funds it receives are distributed.

## **9. Multiple Planning Efforts and Synergies**

**Moderator:** Jason Bergerson, North Slope Borough Planning Department

**Presenters:**

**Matt Dunn**, Deputy Planning Director, North Slope Borough

**Andy Clarke**, Alaska Department of Natural Resources

**Ryan Anderson**, Alaska Department of Transportation and Public Facilities

**Serena Sweet**, Bureau of Land Management

**Monica Alvarez**, Alaska Department of Natural Resources



**Matt Dunn, Andy Clarke, Ryan Anderson, Serena Sweet, and Monica Alvarez**

Jason Bergerson introduced the panel members and said there will be a group discussion after the presentations.

### **North Slope Community Winter Access Trails (CWAT)**

Matt Dunn, NSB Deputy Planning Director, said that after the 2016 Oil and Gas Forum, Mayor Brower directed the Planning Department to pursue options to provide winter connections between the villages and the road system. He



**Matt Dunn, Deputy Planning Director**

said a pilot project in March 2018 involved construction of a hard-packed snow route between the Prudhoe Bay road system and Utqiagvik (Barrow) with a side road to Atkasuk. The trails opened in April 2018, and two caravans were coordinated with

Lynden Transport, the contractor for the bypass mail system. Mr. Dunn said that while the initial caravan took 38 hours, the time was reduced to twelve hours by the end. He said the project demonstrated that winter roads to the villages can be constructed, they provide economic benefits, travel can be done safely, and the caravans can be coordinated with freight haulers. Mr. Dunn concluded his presentation by saying the Borough plans to get an earlier start next winter by pre-packing the roads in late November or early December, expand the snow roads to Wainwright and Anaktuvuk Pass, and provide a regular schedule for caravans.

## **Arctic Strategic Transportation and Resources (ASTAR)**

Andy Clarke, large project coordinator for the Alaska Department of Natural Resources (DNR), said the intent of ASTAR is to develop a partnership with the North Slope, its villages and agencies to identify, evaluate, and advance community infrastructure and regional connectivity projects that offer the greatest benefits to the region. Participating agencies include six divisions within DNR; the Department of Health and Social Services; Department of Commerce, Community, and Economic Development; and the Department of Transportation and Public Facilities. Mr. Clarke said ASTAR is a community-driven effort that will reduce cost of living in the villages, lead to

more efficient development of natural resources, result in more job opportunities for the region, and decrease costs for rehabilitating NPR-A legacy wells. He said that unlike previous infrastructure projects in the region, ASTAR will cover the entire North Slope, including federal lands and waters. Mr. Clarke said the effort will result in a strategic plan, a cumulative benefits analysis tool, identification of information gaps, and necessary studies, including a health



**Andy Clarke, DNR**

baseline summary report. Potential projects will be assessed for funding sources, sponsors, obstacles and challenges, and information gaps. A materials survey will provide crucial information about the availability of materials for road construction. Information on construction materials is scarce, and in general, construction materials are difficult to locate west of the Colville River. Mr. Clarke concluded by saying field investigations and data compilation during 2018 and 2019 will result in the publication of maps and reports.

## **Northwest Alaska Transportation Plan**

Assistant Commissioner Ryan Anderson of the Alaska Department of Transportation and Public Facilities (DOT&PF) said his department is updating the 2004 Northwest Arctic Transportation Plan. The plan includes four sub units: The NSB, the Northwest Arctic Borough, the middle Yukon area, and the Seward Peninsula. He said the purpose of the plan is to improve connectivity by developing transportation links for access, trade, and local resource development. The planning process involves guiding principles including community engagement, safety, a reduction of

environmental impacts, protection of subsistence use, responsible development, and efficiency. The first phase of the plan will involve the public to identify issues followed by the second phase which will involve a transportation modal analysis and recommendations. The plan is expected to be concluded by January 2020.

## Central Yukon Resource Management Plan

Serena Sweet, Supervisory Planning & Environmental Coordinator, Bureau of Land Management, provided an update on the revision to the 1986 Central Yukon Resource Management Plan (RMP) which will also involve an EIS. The RMP will provide future management direction for approximately 13.1 million acres of BLM-managed public land including the Dalton Highway and Central Yukon areas. The planning area includes portions of the Northwest Arctic Borough, the North Slope Borough, the Denali Borough, the Fairbanks North Star Borough and areas in the unorganized borough. It includes the Dalton



**Ryan Anderson, DOT&PF and Serena Sweet, BLM**

Highway Utility Corridor, Central Arctic Management Area Wilderness Study Area, a segment of the Iditarod National Historic Trail, and numerous areas of critical environmental concern. Ms. Sweet said that a new executive order by the Secretary of the Interior requires completion of an EIS within a one-year period and a page limit of 150 pages or 300 pages for unusually complex projects.

## North Slope Management Plan

Monica Alvarez, Natural Resource Manager, Alaska Department of Natural Resources, provided information about the development of the North Slope Management Plan (NSMP). She said this is a new plan for managing the 12 million acres of state lands and tidelands within the planning area for the next 20 years. The planning area includes the area between the NPR-A and ANWR and south to the Brooks Range. Ms. Alvarez said the plan will establish goals, policies, management intent, and guidelines for the use of state land and to allocate uses through designations. She said the plan will also address the NSB's pending municipal entitlement selections. The Borough received a general grant land entitlement of 89,850 acres of which 13,020 acres have been approved for conveyance. The classification of lands will allow the Borough to select its remaining entitlement. Ms. Alvarez said DNR is currently evaluating land use alternatives and expects to issue a draft plan in the near future.



**Monica Alvarez, DNR**

**Discussion:** Delbert Rexford of UIC commended Mayor Brower for the snow road and asked what type of transportation corridors will be developed. Andy Clarke said the answer to that question is unknown at this point because the ASTAR project is in the initial planning stage now and more will be known once public outreach to the communities has been completed. Matt Dunn added that it is important to be broad minded because in addition to roads, corridors will likely include pipelines and utilities.

NSB Chief Administrative Officer Deano Olemaun said the comments by Governor Walker, Commissioner Mack and Joe Balash were in sync with Mayor Brower's philosophy of

creating opportunities for North Slope residents and continuing efforts to support economic resilience. He added that everyone must work together to reach common goals.

In answer to a question about ways agencies can collaborate on stakeholder engagement, Ryan Anderson said DOT&PF is open to ideas that save time and money such as timing planning efforts on a similar schedule. Commissioner Luiken suggested agencies look into creation of an automated tool to post comments received during their public engagement processes.

Marty Awalin, President of the Cully Corporation, said an inventory of resources available in the communities needs to be collected. As an example, she said Point Lay has gravel and coal and a potential site for a deep water port. She encouraged more collaboration with the village corporations.

Lisa Pekich of ConocoPhillips commended the Mayor and the Planning Department on the CWAT effort.

She recognized the needs of residents using snow roads for economic reasons and emphasized the importance of using caravans to avoid safety issues related to individuals travelling on their own.



**Lisa Pekich, ConocoPhillips**

Delbert Rexford of UIC expressed concern about competition for subsistence resources if the road corridors would be open to the general public.

Eva Kinneeveauk, President of the Native Village of Point Hope said that snow roads will help

lower costs for transportation and freight and asked about cost of the CWAT snow roads. Matt Dunn responded that the Borough spent about \$1.2 million on contracts. Ms. Kinneeveauk said that because snow roads have such a small window, plans should be made to construct an all-season road. She also thanked ConocoPhillips for donating fruit for the Point Hope Qagruq whaling celebration.

Popsy Kinneeveauk, President of Tikigaq Corporation, thanked Mayor Brower for organizing the forum.

He said impact aid should be given to all villages because all communities are being affected by climate change and



**Herbert "Popsy" Kinneeveauk, Jr.**

shifting wildlife migration patterns. He said oil companies do a good job of public outreach and asked the agencies to reach out to the communities. Mr. Kinneeveauk said snow roads should start from all directions, not just a focus on Barrow.

Jason Bergerson noted that state lands west of NPR-A are not included in the North Slope Management Plan. Monica Alvarez of DNR agreed that the Point Lay and Point Hope areas are not within the planning area, but she said some of the tidelands above NPR-A are included in the plan.

Deano Olemaun mentioned that the Alaska Eskimo Whaling Commission works with all of the North Slope whaling communities and noted community needs such as boxes that are used to distribute the whale bounty.

Arnold Brower Jr. said that while oil companies make a substantial profit from development, residents only get minimal benefits. He advocated for a commercial vessel traffic corridor from Dutch Harbor to Kaktovik and perhaps a subsistence whaling corridor for Point



**George Kaleak Sr. and Arnold Brower Jr.**

Hope and Nuiqsut where traffic is restricted during whaling. Regarding roads, he said it is important to implement a policy for keeping a small footprint on the tundra.

Popsy Kinneveauk asked about the feasibility of a mail run trail. Monica Alvarez said she would look into that possibility. Jason Bergerson said the western communities need to be treated the same as the eastern communities.

Matt Dunn recognized the need to reduce meeting fatigue experienced in North Slope communities.

## 10. Revising the North Slope Borough Zoning Code

**Moderator:** Jon Dunham, Terratechnika, North Slope Borough Consultant

**Presenters:**

**Gordon Brower**, Planning Director, North Slope Borough

**Wayne Cary**, Assistant Borough Attorney, North Slope Borough



**Gordon Brower and Wayne Cary**

Jon Dunham introduced himself by saying he worked for the NSB Planning Department in the 1990s and more recently as a Borough consultant. He said Title 19 has not been updated or substantially amended for over 25 years. The Borough plans to update the code in phases: The first phase corrects typos, removes outdated information and provides clarity on a few more substantial changes for both Titles 2 and 19. The second phase is expected to address the Title 18 Subdivision Code, and the third phase will target more substantial changes, including project standards in Title 19. This summary highlights the major changes proposed for the first phase and audience questions and comments.

**Background:** The Alaska Constitution gives home-rule boroughs such as the NSB “all



**Jon Dunham, NSB Consultant**

legislative powers not prohibited by law or charter.” The zoning code addresses all lands and waters within the Borough boundaries except lands held in trust by the federal government (i.e., Native

allotments and homesites). State of Alaska agencies must comply with the code to the same extent as other landowners unless the governor gives a specific exemption, and federal lands are covered unless prohibited by a law.

In answer to questions from the audience about the timeline for the changes, Mr. Dunham said the Borough plans to bring the first phase to the Planning Commission in the near future. There is not a timeline for the subsequent phases.

**Title 2:** Proposed changes to Title 2 include minor changes related to the Planning Commission including allowing the commission to establish the order of business during its meetings and clarifications regarding village comprehensive plans and the Borough areawide comprehensive plan.

**Title 19 Zoning Code:** The following changes are proposed to the Borough Zoning Code:

- Clarifies that the Planning Department gathers and preserves information about Iñupiaq history, language and culture,
- Adds village comprehensive plans to the purposes section,
- Removes references to the repealed statewide coastal management program (references to the NSB coastal program remain), and
- Amends definitions (e.g., adds filming to the definition of “commercial;” adds guiding, tours and charter operators to the definition of “commercial development;” clarifies that village areas of influence may be adopted by the Assembly when approving village comprehensive plans; and removes “tundra travel for the maintenance of existing or approved development” from exclusions in the definition of “development.”

Patrick Conway of Oil Search (Alaska) LLC asked for the implications of removing tundra travel from the exclusion in the definition of development. Gordon Brower said the proposed change would require permits for development-related tundra travel because of an increase in



**Patrick Conway, Oil Search**

the number of violations and the lack of self-reporting of tundra damage.

Under § 19.30.070, language changes clarify that approvals carry over to new owners, the Borough may require a surety from a new owner, and the Borough may require a new or amended reclamation plan when ownership changes. In answer to a question, Gordon Brower said this section is being changed to address the increased number of ownership changes on the North Slope. Chantal Walsh of the DNR Division of Oil and Gas added that the State of Alaska also needs to clarify its reclamation requirements with regard to ownership changes, and she offered to work with the Borough to identify needed changes. She said the State can require bonding for decommissioning.

An amendment to § 19.40.010 will allow the Assembly to change the boundaries of a village zoning district. The current language defines the village district as the area within a city, and city boundaries can only be changed through a costly and lengthy process under the State of Alaska Local Boundary Commission. In answer to a question from Delbert Rexford, NSB staff said this change would allow the Assembly to change the boundaries of a community’s village district to include new sub-divisions but changes to a city boundary would still have to be approved by the State of Alaska.

Lisa Pekich of ConocoPhillips asked whether the Borough is seeking public comments on the proposed changes to the zoning code. Jon Dunham said there is not an official public comment period at this time, but there will be a public notice when the Planning Commission reviews the proposed changes.

A number of changes are proposed for approvals, including what specific activities in various zoning districts require permits. Amendments were made throughout a number of sections to change from “days” to “working days” and to add two additional days for

reviewing applications. In response to a comment about the need for this change, the panelists pointed out that due to the increased number of permits (up to 600 a year) and complexity of applications (some are up to 700 pages) timelines need to be more realistic, especially for instances where a permit is submitted on a Friday or before a holiday weekend. Moderator Jon Dunham asked the audience about state and federal timelines for processing permits. Brien Reep of Exxon Mobil said it can range from hours for some state approvals to up to three years for permits associated with a project undergoing an EIS. Staff pointed out that unlike most state and federal permits, provisions in the Borough code require automatic approval of a permit if it is not acted upon within the timeframe specified in the code. Chantal Walsh said she would get back to the Borough about her agency's permit timeframes.

Other proposed changes include clarifications for elevations of administrative decisions, replacement of the term "policies" with "strategies" with respect to village comprehensive plans, and amendment to the approval criteria for tundra travel to match current permitting requirements. In addition, changes are proposed for the number of commission members needed to approve an application that has been protested, a clarification that Borough standards may be amended for a rezone that requires a master plan, and a clarification that an updated master plan is required when project activities change or there is a change in ownership. In answer to a question, staff said the current requirements for a master plan remain unchanged under the proposal.

Marty Awalin of Point Lay's Cully Corporation expressed concern about language in § 19.70.050(J)(3) about development standards in Ledyard Bay. She clarified that beluga whales are herded into the lagoon. Gordon Brower noted that no changes are being proposed to this section in the first phase of revisions and he

agreed that there needs to be careful scrutiny of language that could impact beluga harvest. Arnold Brower Jr. suggested covenants be developed to address Ms. Awalin's concern on belugas.



**Marty Awalin, Cully Corporation**

Staff wrapped up the session by saying the Borough welcomes further discussion and dialog on the proposed regulation changes. Patrick Conway said that some of the proposed changes are substantive and merit input by industry and Oil Search (Alaska) LLC would like to participate in further discussions.

## 11. Future Utility Needs

**Moderator:** **Marleanna Hall**, Resource Development Council

**Presenters:**

**Fadil Limani**, Deputy Director, North Slope Borough Department of Administration and Finance

**Gordon Brower**, Planning Director, North Slope Borough

**Jason Bergerson**, Assistant to the Planning Director, North Slope Borough

Marleanna Hall introduced the panel members and Fadil Limani began his presentation. He said during the early 1980s the Borough established Service Area 10 in response to the need for provision of water, wastewater and solid waste disposal services for the Prudhoe Bay and Kuparak oil fields. The Service Area covers about

3,000 square miles bounded on the west by the Colville River, the Staines River on the east, and Beaufort Sea water within the Borough. Mr. Limani said the Borough is required to establish an enterprise fund for activities funded through user fees. The Borough code precludes other entities from producing and distributing potable water or treating, collecting, or disposing of sanitary waste within Service Area 10 boundaries. He said the Borough Assembly sets the water and wastewater rates, and the Regulatory Commission of Alaska sets fees for solid waste disposal. He added that facilities constructed before creation of Service Area 10 continue to be operated by private companies.



**Fadil Limani, Gordon Brower and Jason Bergerson**

Mr. Limani said the Borough recently invested \$100 million in Service Area 10 including a state-of-the-art utility plant that includes a drinking water production facility, a hot water production facility, and a wastewater treatment facility. He added that the Borough also recently expanded the Oxbow Landfill, the only Class 1 industrial landfill on the North Slope, which will allow operations for another 50 years. The Borough is in the process of closing out the old cell for the landfill. He said that due to EPA requirements, the Borough is unable to accept oily wastes.

Regarding, future utility needs, the Borough conducted a planning charrette with oil and gas operators in August 2017 to identify how it can best meet future utility needs in the western region of Service Area 10. After completion of a

needs assessment, the Borough will host another meeting with oil and gas operators.

Marleanna Hall asked about opportunities for industry to work with the Borough to identify



**Marleanna Hall**

the future utility needs as development expands to the east and west. Gordon Brower expressed a desire for the Borough to work with the industry to provide services if development expands into

ANWR noting that the existing landfill is 100 miles to the west. Jason Bergerson added that this is a significant issue because some federal areas, such as NPR-A, prohibit landfills.

Gordon Brower suggested that expediting land conveyances to the Borough under the Municipal Land Entitlement Program would open up opportunities for the Borough to expand services to the west. He noted that the Borough was far behind other boroughs with respect to receiving its land entitlement. A comment was made that the MOU is a good avenue to make progress on the selection process. The discussion continued about opportunities for the Borough to consider providing road and utility services.

In answer to a question about landfills, Department of Environmental Conservation Commissioner Larry Hartig said that the DOI would need to weigh in on options.



**DEC Commissioner Larry Hartig**

The moderator asked whether there are opportunities to repurpose infrastructure. Jason Bergerson responded that once infrastructure (e.g., pads, airstrips, roads, and utilities) are no longer needed, the Borough may wish to repurpose facilities to provide needed services. He added that some facilities may be needed for the state transportation system and emphasized the importance of infrastructure in the event of a disaster. He posed a question about whether the State will take over industry-built roads such as those providing access to West Dock, Milne Point, Oliktok Point and Meltwater.

Jessika Gonzales of ConocoPhillips asked that in the event the NSB was to provide services to NPR-A operations if those services would fall under Service Area 10 regulations. Gordon Brower said that at this time there are restrictions to adding infrastructure to the service area. He added that landfills are prohibited in the NPR-A, and it is unknown what facilities will be allowed in ANWR if development occurs. He said it makes sense to provide services closer to the new development areas.



**Jessika Gonzales,**  
**ConocoPhillips**

In answer to a question about roadblocks and things that can be improved, Gordon Brower said there needs to be more cooperation to manage waste. He said it may make sense to build gravel roads since ice roads melt. He said more work needs to be done to reduce duplication by sharing roads and VSMs for pipelines. He added that it makes sense for the NSB to work with industry to build shared resources rather than each company constructing their own. He offered several scenarios including possible ownership of VSMs by the State, involvement of the North Slope Port Authority, and more consolidation of

facilities for use by multiple companies. Mr. Brower said a possible solution would be to work with the villages to examine the feasibility of village waste treatment facilities to accommodate exploration. He said sharing infrastructure will minimize the need for DR&R.

In response to a question about whether consolidation of infrastructure would reduce the Borough's tax base, Jason Bergerson said he thought it will increase the tax base in the long run because shared facilities would be taxed. He said there is an opportunity for Borough-industry partnerships as development expands east and west.

The discussion concluded with a question by one of the participants about why more federal representatives were not here to participate in this discussion.

## 12. Priorities for Future Collaboration

### **Moderators:**

**Jason Bergerson,** Assistant to the Planning Director, NSB

**Glenn Gray,** Glenn Gray and Associates, North Slope Borough Consultant

Jason Bergerson introduced this session by saying it was an opportunity for the participants



**Jason Bergerson, NSB**  
**Planning Department**

to provide feedback on what works and what can be done better. Glenn Gray introduced himself by saying he has worked with the Borough since the 1990s as a state employee and

as a Borough consultant for the past 15 years. He said that while this session focusses on priorities for future collaboration, people may speak on other oil and gas issues.

Arnold Brower Jr. commented that a portable oxidation system could improve waste handling. He encouraged further investigation into the feasibility of this option.

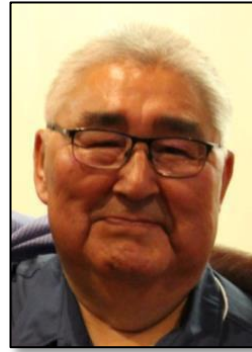
Someone expressed a concern that the certificate of public convenience should not be fragmented. Another person expressed a concern about the long distance from some facilities to the Service Area 10 landfill (e.g., Kugaruk is about 60 miles away and the Nanushuk prospect is about 100 miles away). The commenter recommended working with industry to address this issue.

Glenn Gray asked the audience to indicate how often oil and gas forums should be held. By a show of hands, the majority of participants indicated they should be held every two years. He then asked who should sponsor the forums. Some said that additional meetings should be scheduled as needed to address specific topics as the need arises. Borough staff said they were fortunate to be in a position to have had the resources to sponsor the first three forums, but it may make sense to share the costs in the future with state and federal agencies.



**Glenn Gray, NSB Consultant**

NSB Assembly Member Roy Nageak said the Borough was being treated similar to that of a third world nation when they are told what to do by federal agencies. He said the Borough does not always have much of a choice depending on who has the power or what the



**NSB Assemblymember Roy Nageak**

regulations dictate. He continued by saying residents need to use the land to harvest the animals and that the land was taken a long time ago. Mr. Nageak continued by saying that the industry benefits from resources on lands within the Borough. He shared information about the importance of whaling and what it was like for his family when they lived on what is now ANWR. He spoke about the clash between Iñupiaq values and the values of industry. He concluded by saying that people could work together in a more civilized manner.

Noting that many of the participants from industry and state and federal agencies had left the forum, Glenn Gray asked what could be done in future forums to get participants to stay until the end. The participants gave a few suggestions such as holding future forums less often and finding new ways to keep the dialog going on important topics. Matt Dunn, NSB, said the forums have identified the need for smaller meetings of specific issues.

Regarding the need for meetings on special topics, participants identified meetings for solid waste issues, Title 19 revisions, and DR&R. Deputy Planning Director Matt Dunn said the Borough plans to wrap up the approval of the first phase of changes to Title 19 by Thanksgiving. He added that regulation of DR&R is a topic that needs more attention in the near future. Someone added that there should be a plan for the future of legacy wells.

Mary Colligan, Regional Director of the U.S. Fish and Wildlife Service, said early community engagement is important for future collaboration efforts. She said it could be done in a more coordinated matter and that the

Borough and state and federal agencies should work together to address the bigger picture.

Other participants supported creation of a database to track issues of local importance, reports and research. In answer to a question from Jason Bergerson, participants said it would be worthwhile for the agencies to be able to share information from a community and use it for planning processes. This suggestion was raised earlier in the forum, and it was recommended that agencies develop a protocol for sharing information.



**Mary Colligan, U.S. Fish and Wildlife Service**

One participant commented on a recent convention he attended where the concept of “hydrocarbon super basins” was discussed. While there was a lot of talk about the Permian basin, he said there is more excitement in the Lower 48 about the North Slope than there is in Alaska. Mr. Richards said hydrocarbon production in Alaska could continue for decades, but more wells need to be drilled to quantify resources. He said Alaska has so many advantages and that there is a need to attract industry for more exploration.

Atqasuk Mayor Doug Whiteman said it would be good if agencies could join forces for community meetings and to speak as a group and highlight core concepts. He requested that agency staff



**Atqasuk Mayor Doug Whiteman**

Speak in layman’s terms to avoid what he called a “technical burnout.” Someone added that a recent government document had three pages of acronyms.

Arnold Brower Jr. recommended that socio-economic studies be conducted every five years.

Giving further feedback on future forums, someone suggested piggy backing on existing winter and summer project update meetings sponsored by industry.

Jason Bergerson asked participants if they saw value in the Borough’s community engagement process that is being used for comprehensive plans. Doug Whiteman suggested it would be good to get a copy of the community engagement process.

Someone recommended that future forums be broken into two half days rather than one full day.



**Justus Mekiana and Riley Sikvayugak**

Arnold Brower Jr. recommended that an oil refinery be developed on the North Slope. He said residents cannot continue to pay \$11 per gallon, and a refinery would improve the local economy and promote in-state use of resources. Marty Awalin referenced efforts at the Red Dog Mine to reduce local fuel costs.

### **13. Closing Remarks by Mayor Harry Brower Jr.**

Mayor Brower thanked everyone for taking the time from their busy schedules to attend the Forum. He acknowledged those participants who prepared presentations and his staff who made the forum possible.

Mayor Brower said it is always a challenge to keep the momentum going after a conference like this. He added that it is difficult to take in all of the recommendations for improvement, but that it is important “to step outside of your day-to-day routines and look at the bigger picture.” He said each of us has a piece of the puzzle, and to make meaningful changes, it is important to look beyond our individual mandates to think of how our piece of the puzzle fits into the entire puzzle. The



**NSB Mayor Harry Brower Jr.**

Mayor urged forum participants to continue to look for new synergies, opportunities to forge new partnerships, and incremental things you can do to chip away at the growing list of recommended actions.

The Mayor referenced how the existing MOUs between the Borough and state agencies has improved communication and furthered work on specific issues. He added that he looks

forward to completing a similar MOU with the Department of the Interior.

Regarding ways to keep the dialog going, Mayor Brower recommended continuation of future forums as well as scheduling topic-specific meetings. He said that a few topics for future meetings that come to mind are (DR&R) - Decommissioning, Removal and Restoration; reducing impacts to our village residents; sharing of infrastructure; reducing duplication; and developing new ways to mitigate impacts.

The Mayor said the Borough would be compiling a summary of the forum and key recommendations that will be sent to each participant. He also encouraged participants to fill out the evaluation forms because their feedback will help improve future meetings.



**Martha Awalin and Martha Tukrook**

In closing, Mayor Brower asked participants to think of how they can continue the dialog with all of the stakeholders. He urged everyone to keep others informed about their activities and to look for opportunities to continue meaningful communication.

# 2018 North Slope Borough Oil and Gas Forum

## Appendix A: 2016 Forum Recommendations – Progress Made and Future

### Priorities

The participants at the 2018 Oil and Gas Forum posted their comments to posters listing the recommendations identified by participants at the 2016 forum. The comments by the 2018 participants addressed progress made since 2016 as well as future priorities for action.

#### 1. REDUCING DUPLICATION AND STREAMLINING PERMITTING

- *Good stakeholder engagement builds trust & relationships*
- *Improve consistency among regulatory approvals*
- *Standardize requirements for application packets and permit documents*
- *Learn from the past*
- *Promote early & frequent coordination & consultation - pre-application to execution*
- *Develop a glossary of common terms*
- *Improve communication to ensure responsible development and DR&R (decommissioning, removal and restoration)*

#### Progress Made Since 2016 Forum

- Work to reduce agency firewalls

#### Priorities for Next Few Years

- Excessive duplication eliminates effectiveness
- Collaboration between NSB, State, Feds, Industry and NGOs regarding wildlife studies – This will provide greater validity to data and reduce costs

#### 2. IMPROVING LAND USE PLANNING AND MANAGEMENT

- *Improve and expand Memoranda of Understanding (MOUs)*
  - *Define purpose, share costs, understand roles & limits, conduct annual reviews*
- *Consider region-wide planning process/jurisdictional authority*
- *Consult effectively with people impacted by development*
- *Create infrastructure working groups*
- *Create multiple points of contact*
- *Improve communications with industry*
- *Break down paradigms to compare how oil companies do business*

#### Progress Made Since 2016 Forum

- New NSB-Alaska Department of Transportation and Public Facilities MOU
- Update to NSB-Alaska Department of Natural Resources MOU

#### Priorities for Next Few Years

- Establish buffer zone to protect Point Lay and Alaska Eskimo Whaling Commission hunting zone
- Develop an NSB-US Department of the Interior MOU

- Work towards NSB management of airports
- Continue working on alignment of agency plans

### **3. TUNDRA TRAVEL**

- *Develop a shared data base among state, borough and federal agencies*
- *Create a manual of with TEK guidelines for assessing damage, remediation*
- *Determine how climate change affects tundra*
- *Review/revise regulations to reflect changing conditions and knowledge*
- *Develop better definitions of damage/disturbance*
- *Develop protocol for triage – first response to damage*

#### **Progress Made Since 2016 Forum**

- CWAT and ASTAR programs

#### **Priorities for Next Few Years**

- Extend to longer periods based on improved tundra travel equipment
- Better training and communication (including local knowledge) to avoid tundra damage
- Continue collaboration with communities to ensure safety on traveling through oil and gas roads and trails

### **4. INNOVATIVE APPROACHES FOR MITIGATING IMPACTS**

- *Include local and traditional knowledge in project design and mitigation strategy*
- *Coordinate data collection and sharing – centralized database*
- *Initiate a large-scale health assessment*
- *Connect and listen to all stakeholders*
- *Develop a community inventory of mitigation and compensation*
- *Determine when mitigation is required (credit/debit calculator)*
- *Complete multi-user infrastructure planning*
- *Recognize that aesthetics matter - noise, smells & appearance*
- *Analyze opportunities to re-purpose infrastructure*
- *Complete a landscape-scale mitigation strategy*
- *Improve opportunities to share facilities (i.e., reduce unnecessary duplication)*

#### **Priorities for Next Few Years**

- Consider subsistence shorelines etc. for TLUI
- Continue agency – industry coordination with environmental studies to reduce duplicative efforts
- Identify ways to reduce impacts, e.g. air traffic

### **5. PLANNING FOR FUTURE ROADS, PIPELINES AND SERVICE AREAS**

- *Initiate a transportation corridor plan – start now*
- *Maximize agencies' collaboration skills sets*
- *Define road blocks (obstacles)*
- *Consider port authority model*
- *Re-use gravel from unused roads*
- *Recognize that projects will drive solutions*

### **Priorities for Next Few Years**

- Recycle gravel sources upon DR&R to new sites
- Aggressively market mine site's gravel resources to industry!
- Identify possible gravel sources for NSB to select/develop
- Need real assessment of each North Slope village for resource development
- Start planning now for expanded services and utilities

### **6. REDUCING IMPACTS FROM NORTH SLOPE AIR TRAFFIC**

- *Improve communication*
- *Reduce frustration by using alternate transport modes & local hire*
- *Educate researchers, identify & mitigate their impacts*
- *Use Conflict Avoidance Agreement (CAA) model to time area closures*
- *Consolidate agency site inspections*
- *Connect with locals through social media*
- *Be good neighbors*
- *Implement best practices*

### **Priorities for Next Few Years**

- Shared services among industry operators
- Do a better job of consolidating ice roads and other facilities

### **7. DECOMMISSIONING, REMOVAL AND RESTORATION (DR&R)**

- *Use best practices (e.g., re-use of facilities & providing flexibility)*
- *Inventory what will need to be restored/reclaimed*
- *Take responsibility for current DR&R needs*
- *Consider a "Superfund" type of money pool*
- *Develop a DR&R plan among BLM, state and other land owners - Strive for early consensus*
- *Create an up-to-date inventory of "chain of ownership" to identify current responsible party*
- *Create working groups*

### **Priorities for Next Few Years**

- Dirt burner – keep our gravel in the Arctic
- Need common expectations for DR&R

### **8. COMMUNICATING WITH RESIDENTS**

- *Develop and share community and subsistence activity calendars*
- *Create community directories: who, how, when to engage*
- *Recognize that mutual respect builds trust*
- *Be transparent, responsive & accountable*
- *Promote meaningful dialogue in layman's language, Keep residents informed*
- *Go beyond minimum notification requirements for meetings & select right materials to share*

### **Priorities for Next Few Years**

- Have presenters provide copies of their PowerPoints since some are hard to see
- Layman's dialog
- Interconnectivity of intent
- New model for NSB outreach to villages for comprehensive planning
- Create interagency online repository of comment



## 2018 North Slope Borough Oil and Gas Forum

### Appendix B: Biographies for Presenters and Organizers

**Ryan Anderson** is the Northern Region Director of the Alaska Department of Transportation and Public Facilities (DOT&PF). He graduated from the University of Alaska Fairbanks in 1997 with a degree in Geological Engineering and began working for DOT&PF in 2000 after working for 3 years in underground mining. As a Director of DOT&PF, Ryan currently oversees the Design, Construction, and Maintenance and Operations sections for the Northern Region Division.

**Monica Alvarez**, Natural Resource Manager, Division of Mining, Land and Water, Alaska Department of Natural Resources (DNR). Monica is the Section Chief of the Resource Assessment and Development Section directing DNR planning and the municipal entitlement program. Monica has worked for DNR in various capacities for the past 17 years.

**Joseph “Joe” Balash** serves as the Assistant Secretary of Land and Minerals Management, U.S. Department of the Interior (DOI). In this role, Balash oversees the Bureau of Land Management, Bureau of Ocean Energy Management, Bureau of Safety and Environmental Enforcement, and the Office of Surface Mining Reclamation and Enforcement. He heads DOI’s management of all federal lands and waters, and their associated mineral and non-mineral resources, as well as the appropriate regulation of surface coal mining. Balash has worked for politicians for more than a decade. Since 1998, he has worked for the Alaska Legislature, advised Sarah Palin on natural resource policy, permitting, and energy. He most recently served as the Chief of Staff to Senator Dan Sullivan (R-Alaska) and is the former Commissioner of the Alaska Department of Natural Resources. He heads the DOI’s management of all federal lands and waters and their associated mineral and non-mineral resources as well as the appropriate regulation of surface coal mining. Balash is committed to managing, protecting, and improving lands and waters to serve the needs of the American people.

**Jason Bergerson**, Assistant to director, North Slope Borough Department of Planning and Community Services. During his more than 25 years with the Borough, Mr. Bergerson has been involved in many issues related to development and permitting. He has worked with the Planning Department for over 10 years on the Municipal Land Entitlement process and is currently the primary point of contact for the Borough for this issue. He has worked on issues related to the Borough-owned Service Area 10 at Prudhoe Bay which provides utilities for oil and gas companies. He has also worked on the development of new gravel material sites on Borough lands to support expanded utility services and monitoring industrial development across the North Slope. He was also a contributing author to the 2014 *Oil and Gas Technical Report* and a member of the organizing teams for the 2007, 2016 and 2018 Oil and Gas Forums.

**Gordon Brower**, Director, North Slope Borough Department of Planning and Community Services. As the Director, Gordon oversees all activities of the Planning Department, including implementation of the zoning and land use code. He was born and raised in Barrow and grew up harvesting subsistence resources. He has worked for the Borough for 26 years with most of those years in the Planning Department. He is a whaling captain and a local fisherman. Mr. Brower was on the team organizing the Borough’s 2016 and 2018 Oil and Gas Forums and was a member of the team that produced the Borough’s 2014 Oil and Gas Technical Report.

**Harry Brower, Jr.**, is the Mayor of the North Slope Borough and lifelong resident of its northern most community, Utqiagvik (formerly known as Barrow) Alaska. Harry is a whaling captain and is a proud

provider to his wife and five children, numerous relatives, and members of his community as a very active subsistence hunter. Harry has served previously as the Deputy Director of the Borough's Wildlife Management Department, Chairman of the Alaska Eskimo Whaling Commission, and Chairman of the Subsistence Subcommittee of the Arctic Waterways Safety Committee. In addition to his work on behalf of bowhead whale and other marine mammal subsistence hunters, Harry has been heavily involved in the design and implementation of efforts to document levels of subsistence harvest in the North Slope villages and land use by subsistence hunters. Harry also serves as a member in numerous committees and councils in Alaska and has involved himself internationally, representing the Iñupiaq people at meetings of the International Whaling Commission. He has participated in numerous public hearings and public meetings regarding potential impacts of industrial activity to wildlife and subsistence hunting activities. Harry is a regular guest presenter on subsistence related topics at various local, state, and national conferences.

**Wayne Cary**, Assistant Borough Attorney, North Slope Borough. Mr. Cary has been with the North Slope Borough for the last three years. He works with the Planning Department and Port Authority. Prior to joining the North Slope Borough Mr. Cary was in private practice in Bethel, an Assistant Attorney General for Nome and Kotzebue and an Assistant District Attorney in Nome. He holds a Bachelor of Arts degree from Auburn University in Alabama where he successfully walked-on the football team. He received a juris doctor from Cumberland School of Law in Birmingham, Alabama.

**Andy Clarke**, Large Project Coordinator, Office of Project Management and Permitting, Alaska Department of Natural Resources (DNR). Andy came to work for DNR in 2017. He has worked for the oil and gas industry for over 34 years, the majority of which was with ARCO and BP on the North Slope. Andy has a BA in Business Administration and English.

**Jon Dunham**, Terratechnika. Jon has over 35 years of professional planning experience with the Municipality of Anchorage, the North Slope Borough, the Alaska Department of Transportation and Public Facilities and in the private sector. Mr. Dunham has a Bachelor of Science degree from Oregon State University, graduate studies at the University of Alaska Anchorage and is currently a technical consultant for the North Slope Borough,

**Matt Dunn**, Deputy Director, Department of Planning and Community Services, North Slope Borough. Mr. Dunn has worked for the Borough for over 15 years and with the Planning Department since 2012. He is responsible for comprehensive planning, GIS services, land services, resource development, municipal land entitlements, and the capital improvement program development. He has worked in several other positions with the Borough. Mr. Dunn has also worked for oil and gas companies throughout the world, including the Gulf of Mexico, South America, West Africa, Australia, Mid East, and Southeast Asia. He led the team organizing the Borough's 2018 and 2016 Oil and Gas Forums.

**Glenn Gray**, Oil and Gas Forum Coordinator, Glenn Gray and Associates. Glenn has worked in Alaska for over 40 years, including 15 years consulting with the NSB. Since 2003 he has served as the principal for Glenn Gray and Associates, consulting for municipal governments across Alaska. Glenn specializes in community and regional planning and land use issues. Previously, he worked for several state and federal agencies on natural resource issues, including over ten years coordinating State of Alaska reviews of onshore and offshore oil and gas projects. He was a contributing author of the Borough's *Oil and Gas Technical Report* and he assisted the Borough in organizing the 2016 and 2018 Oil and Gas Forums. Glenn

has a Bachelor of Science degree in Natural Resource Management from the University of Connecticut and Master of Science degree in Regional Planning from the University of British Columbia.

**Marleanna Hall**, Executive Director, Resource Development Council for Alaska, Inc. (RDC). Marleanna joined the RDC in 2007, and has worked to achieve RDC's mission to *Grow Alaska through Responsible Resource Development*. She also served as the Development Director for Alaska Resource Education (formerly AMEREF). Prior to RDC, Marleanna was employed by Tesoro Alaska Company, which was the catalyst for her interest and passion in supporting industries involved in the responsible development of Alaska's natural resources. She has completed the Leadership Anchorage program through the Alaska Humanities Forum, as well as the Leadership and Executive Advancement Program (LEAP) through the Anchorage Chamber of Commerce. She earned her Bachelors in Business Management from University of Alaska Anchorage. Marleanna and her husband Dan have one son, Alex, and Labradors. They enjoy spending time between their home in Anchorage and their place in Willow.

**Patricia LaFramboise** was born and raised in Alaska and has over 40 years of federal service. She recently returned to Alaska to accept a position with the Bureau of Ocean Energy Management as the Chief of the Leasing Section. Patricia assesses data concerning the environmental effect resulting from mineral exploration, production, and transportation on the Alaska Outer Continental Shelf. She is responsible for implementing the National Offshore Oil and Gas Leasing Program and managing the oil and gas lease sales program in Alaska. Prior to her current position, Patricia served as the Chief of Leasing and Minerals with the Bureau of Land Management in Reno, Nevada. She managed the mineral leasing program, specifically, oversight of the onshore oil and gas and geothermal lease sales program. During Patricia's tenure with the Bureau of Land Management in Alaska, she served as the National Petroleum Reserve Alaska Coordinator, and was responsible for the operation of oil and gas lease sales within the reserve. Patricia looks forward to continuing her federal career with the Bureau of Ocean Energy Management.

**Fadil Limani**, Deputy Director of Finance, NSB Department of Administration and Finance. In addition to his current role, Fadil has been employed with the Borough as the Oil and Gas Research Analyst and Assistant to the Director of Administration and Finance. He oversees several divisions including the Accounting, Budget & Position Control, Grants, Assessing, Tax Audit, and Service Area 10. In addition, Fadil manages the Borough's investment portfolios, prepares and coordinates general obligation bond sales and rating presentation meetings, administers the Borough's bonded indebtedness, and prepares budget and economic forecasting models. He also leads the preparation of the Borough's Comprehensive Annual Financial Report, Popular Annual Financial Report, and the Annual Budget. Prior to his experience with the Borough, Fadil served in a variety of accounting and management positions within the State of Alaska and he worked at KPMG LLP. Fadil was born and raised in Kicevo, Macedonia prior to moving to Anchorage, Alaska with his family. He has Bachelor of Business Administration and Accounting from the University of Alaska. Fadil enjoys spending quality time with his wife and two kids.

**Faith Martineau** currently serves as Executive Director for the Office of Project Management and Permitting at the Department of Natural Resources. Faith has led interdepartmental teams and worked with local, state and federal agencies on large development projects. As a subject matter expert, Faith has worked with numerous stakeholders to highlight Alaska-specific issues and concerns with proposed federal policies and regulations regarding compensatory mitigation, including work on the North Slope. Her career experience includes previous positions with Caelus Energy LLC, SLR International Corp. and

the U.S. Army Corps of Engineers. Faith is a member of the Alaska Association of Professional Landmen and was appointed in 2017 to the BLM Alaska Resource Advisory Council.

**Marc Luiken**, Commissioner, Alaska Department of Transportation and Public Facilities. Under his direction, the department is responsible for the planning, design and construction, as well as the maintenance and operation of Alaska's transportation system, public buildings and facilities. He previously served as the department's Commissioner from December 2010 to October 2012; a position he took after serving as DOT's Deputy Commissioner for Aviation. Most recently, Commissioner Luiken was employed as a project manager and performance coach with RLG international, supporting the oil industry in Alaska with ConocoPhillips and BP Exploration Alaska. Prior to his public service to the State of Alaska, Luiken served 29 years with the U.S. Air Force, retiring June 1, 2010 as the Vice Commander of the 11th Air Force. His career as an Air Force fighter pilot spanned the globe with multiple assignments in the United Kingdom and Germany, and an assignment in Japan. He is a combat veteran with service in Operation Desert Storm, Operation Southern Watch, Operation Joint Forge and Operation Enduring Freedom. Commissioner Luiken holds a Bachelor degree in Human Factor's Engineering from the U.S. Air Force Academy, a Master's degree in Management from Troy State University and a Master's degree in Strategic Studies from Air University in Alabama. He is a Certified Member of the American Association of Airport Executives and a member of the Air Force Association. He lives in Anchorage with his wife Suzanne. They have five children, each of whom are Alaska residents.

**Andrew "Andy" T. Mack** was appointed Natural Resources Commissioner by Governor Bill Walker on July 1, 2016. Mack is an attorney with experience in Arctic policy and development, private equity investment, and government and regulatory affairs. Much of his work has focused on the energy industry, Native corporations, local government, and the Alaska state Legislature. He is also a former commercial fisherman. Prior to his appointment, Mack served as managing director of Pt Capital, the only private equity fund in based in Alaska, and was a private consultant working for village Native corporations on the North Slope. From 2006 to 2012, he was senior advisor to the mayor of the North Slope Borough and was heavily involved in regulatory matters surrounding oil and gas leasing and exploration in the outer continental shelf of the Chukchi and Beaufort seas. As an attorney, Mack worked for Atkinson, Conway & Gagnon on Alaska Native corporation and financial issues, was a criminal defense attorney in Barrow, and clerked for Anchorage Superior Court Judge Larry Card. Mack holds a bachelor of arts in political science from Concordia College and a juris doctor from Loyola Marymount School of Law. He was raised in Soldotna and lives in Anchorage with his wife Roxanne and two sons.

**Ted Murphy**, Associate State Director-Alaska, Bureau of Land Management. Ted arrived in Alaska in 2007, where over the next 5 years he led the Renewable, Energy and Minerals and Planning groups. Through July 2012, he focused on development of policies and procedures within the State's diverse cultural and natural resources. In August 2012, Ted was selected as the Associate State Director in Alaska and has since been working to build upon the energy and cohesiveness of the Alaska organization. Before coming to Alaska, Ted was the Solid Minerals Division Chief in the Washington Office, where he helped implement the solid minerals portions of the Energy Policy Act of 2005. Prior to his time in D.C., he gained field experience, by working in the Rock Springs Field Office in Wyoming. He began his federal career working for the U.S. Geological Survey as a mining engineer after graduating from Montana Tech. Ted enjoys cycling year round from Eagle River to Anchorage.

**Seeseei Pili**, Division Manager, Department of Planning and Community Services. Mrs. Pili has been with North Slope Borough for 22 years in different capacities. She worked at the Mayor's office under two different administrations - the Late Edward Itta and Charlotte Brower. She worked at the NSB Planning Department before moving to the Mayor's office and returned to the Planning Department four years ago. She now serves as the Division Manager overseeing the administrative and financial needs of the Planning Department as well as working closely with Director Brower and Deputy Director Dunn. She was a member of the organizing team for the 2018 Oil and Gas Forum.

**Serena Sweet** has worked for over six years as the Branch Chief for Planning and Assessment for the Bureau of Land Management (BLM) Alaska and has over 14 years of experience in environmental planning and, specifically, National Environmental Policy Act (NEPA) compliance, analysis, and project management. Serena is currently on detail to the BLM Washington Office as the Acting Division Chief Decision Support, Planning & NEPA. In her role as the BLM Alaska Planning and NEPA lead, Serena supervises a team that works on various issues; including, development of resource management plans that direct the management of 72 million acres of mountains, wetlands, and tundra in Alaska, as well as analysis of various site-specific resource development projects across the state. Her family has been in Alaska since the 1960s and she was born and raised in South-central Alaska. Serena studied at the University of Alaska, Anchorage and holds degrees in Biological Studies and a minor in Environmental Studies.

**Chantal Walsh** has 30 years of private-sector experience in Alaska's petroleum industry on matters including strategic planning, commercial analysis, litigation, well work operations, production optimization, completions, and drilling design and coordination. Chantal started her oil and gas career in 1985 at Standard AK Production Company working on Prudhoe Bay projects. She continued to work on Prudhoe Bay projects with British Petroleum (BP) and then Atlantic Richfield Company (ARCO) Alaska, where she held a variety of positions in commercial analysis, reservoir management, litigation, and field operations. While affiliated with Petrotechnical Resources of Alaska, a consulting firm she cofounded in 1997, she worked with major oil and gas producing companies, exploration firms, native oil and gas entities as well as government agencies. She has a Bachelor of Science degree in Petroleum Engineering from the University of Alaska Fairbanks and is a licensed Professional Engineer in Alaska. She is currently chair of the University of Alaska Fairbanks, College of Engineering and Mines' Advisory and Development Council and actively involved with United Way and other charities. Chantal is a third-generation Alaskan and, with her husband Tom, has raised their three children here. Chantal loves the outdoors and is particularly fond of getting out on the ocean in the summer and enjoying snow sports in the winter.