



GROUSE MOUNTAIN
ENVIRONMENTAL CONSULTANTS

**YOUR FULL SERVICE RESOURCE FOR PLANNING,
PERMITTING, AND IMPLEMENTATION.**



OUR MISSION

Is to deliver the highest levels of professionalism and experience to our clients by striving to provide creative solutions and timely, responsive services.

ABOUT US

Grouse Mountain Environmental Consultants is an independently owned, multidisciplinary natural resource consulting firm whose comprehensive blend of disciplines and years of experience allow us to provide solutions to unique and contemporary issues.

Grouse Mountain is committed to providing the utmost qualifications and skills available to complete your projects with professionalism.



Our office locations in Buffalo, Wyoming and Santa Fe, New Mexico allow us to efficiently service clients throughout the Rocky Mountain, Southwest, and Midwest regions.

Grouse Mountain began operations in 2007, initially providing federal oil and gas permitting and environmental consulting services to the Powder River Basin. Since then, we have grown to a diverse team of technical professionals including regulatory and permitting specialists, wildlife biologists, botanists, Geographical Information Systems (GIS) analysts, National Environmental Policy Act (NEPA) specialists, cultural resource specialists, hydrologists, certified Stormwater Pollution Prevention Plan (SWPPP) administrators, environmental engineers, and reclamation specialists. This diversity allows our team to manage a wide variety of projects throughout Wyoming, Montana, the Dakotas, Idaho, Colorado, Utah and New Mexico.

Grouse Mountain's small company values are visible in the quality of our work and the relationships we develop with our clients. Whether your project requires obtaining a federal Application for Permit to Drill (APD), proposed development for renewable energy, navigating the policies surrounding greater sage grouse management, or attaining NEPA compliance, our staff of dedicated professionals is ready to assist your project needs.



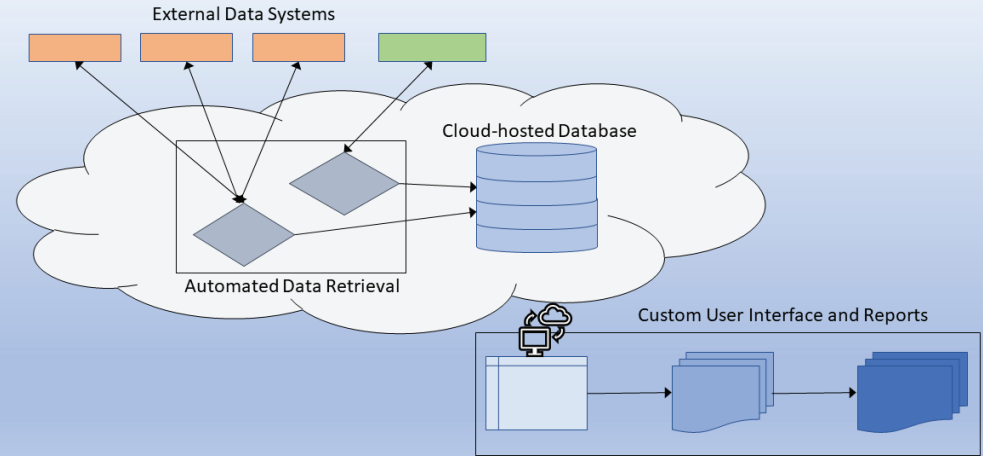
PERMITTING

Grouse Mountain has built upon decades of experience processing Applications for Permit to Drill (APDs) for oil and gas wells. Our permitting group excels at staying on the cutting edge of ever-changing regulations and permitting requirements specific to both state and federal entities. We believe we give our clients an edge in the competitive energy race with our vast permitting expertise.

- FULL SERVICE FEDERAL OIL AND GAS APPLICATION FOR PERMIT TO DRILL (APD PACKAGES)
- FEDERAL AND STATE OIL AND GAS NOTICE OF STAKING (NOS PACKAGES)
- STATE OIL AND GAS APPLICATION FOR PERMIT TO DRILL (APD PACKAGES)
- PERMITTING STRATEGY DEVELOPMENT
- FACILITY SITING
- PIPELINE ROUTING
- STATE AND FEDERAL RIGHTS OF WAY (ROWS)
- AS-BUILT MAPPING
- SMALL MINE PERMIT / LIMITED MINING OPERATION APPLICATIONS
- LANDFARMING



Example Actual Database Solution



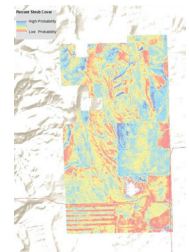
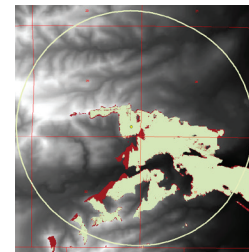
GIS, UAS, AND DATABASE SERVICES

Grouse Mountain technologists are highly proficient with Geographic Information Systems, Unmanned Aircraft Systems, and Databases. Our GIS analysts love doing spatial analyses and creating flawless maps! With 29 years' combined experience with GIS for environmental projects, we know the ins and outs of working with natural resource data to produce maps that meet client and agency needs. Our GIS analyses and map products are a pillar of the work we do for nearly all our customers.

Unmanned Aircraft Systems (UAS) enable us to deliver new and exciting imagery, video, and analyses to provide previously unimagined detail from the air! Since 2018, Grouse Mountain FAA licensed pilots have taken to the skies to collect aerial information and then create amazing insights.

Grouse Mountain database developers are experienced with creating database solutions using Microsoft technologies including SQL Server, Reporting Services, and Azure Cloud. We've also completed projects that included integrating multiple systems and streamlining workflows – both with custom code.

Our team loves a good challenge and welcomes your inquiries!



GIS

- ENVIRONMENTAL RESOURCE MAPPING
- MOBILE DEVICE WORKFLOWS
- 3D MAPPING, MODELING, AND VISUAL ANALYSIS
- LAND USE/LAND COVER MAPPING
- GPS INTEGRATED SOLUTIONS
- INTERACTIVE, WEB-HOSTED MAPS

UAS

- AERIAL IMAGERY AND VIDEO ACQUISITION
- VIDEO PRODUCTION
- GEOREFERENCED AND ORTHORECTIFIED AERIAL IMAGERY
- PREPLANNING VISUALIZATION
- RECLAMATION MONITORING/MAPPING
- AERIAL INSPECTION AND MONITORING OF INFRASTRUCTURE
- REAL ESTATE DEVELOPMENT APPLICATIONS
- AGRICULTURAL APPLICATIONS

DATABASE

- DATABASE DESIGN, DEVELOPMENT, AND MAINTENANCE
- SOFTWARE SYSTEMS INTEGRATION
- WORKFLOW AUTOMATION
- CUSTOM FORMS
- TAILORED REPORTS



NEPA

Projects with a federal component are required to comply with the National Environmental Policy Act (NEPA). Grouse Mountain NEPA specialists will assist you while navigating through the complexities of NEPA. We will coordinate with the cooperating federal agencies to determine the appropriate action based on the extent of your project, whether that means preparing a straightforward Categorical Exclusion or intensive Environmental Impact Statement. Our NEPA specialists will lead our diverse resource team of wildlife biologists, environmental specialists, hydrologists, reclamation specialists, and archaeologists to ensure NEPA documentation is completed in a timely and efficient manner.

- THIRD-PARTY ENVIRONMENTAL IMPACT STATEMENTS (EIS)
- THIRD-PARTY ENVIRONMENTAL ASSESSMENTS (EA)
- THIRD-PARTY CATEGORICAL EXCLUSIONS (CE)
- BIOLOGICAL ASSESSMENT/BIOLOGICAL EVALUATIONS (BA/BE)
- PUBLIC SCOPING, OUTREACH, AND COMMENT REVIEW
- INTERAGENCY COORDINATION

RANGELAND HEALTH

Grouse Mountain's rangeland specialists are highly trained in a number of protocols used in rangeland assessments. We are experienced in identifying ecosites, soils types, and plant communities. Our crew leads have received training in terrestrial Assessment, Inventory, & Monitoring (AIM), National Resources Inventory (NRI), and Interpreting Indicators of Rangeland Health. With this field knowledge, Grouse Mountain personnel have the capability to conduct quality field data collection in an efficient and timely manner.

In addition to our experience with government agencies on natural resource-related projects, several team members have ranching and agricultural backgrounds providing us the ability to better facilitate discussions with land managers.

- RANGELAND HEALTH ASSESSMENTS
- GRAZING LANDS INVENTORY ANALYSIS AND PLANNING SERVICES
- SAGE-GROUSE HABITAT ASSESSMENT FRAMEWORK (HAF) GUIDELINES FOR ASSESSING RANGELAND HEALTH
- DOCUMENTATION OF BASELINE VEGETATIVE COMPOSITION
- SPECIES IDENTIFICATION AND MANAGEMENT TRAINING
- VEGETATION QUANTIFICATION
- SOILS IDENTIFICATION USING HAND AUGERS, SOILS PITS, AND GIDDINGS RIG
- INVASIVE SPECIES SURVEYS AND DEVELOPMENT OF INTEGRATED WEED MANAGEMENT PLANS



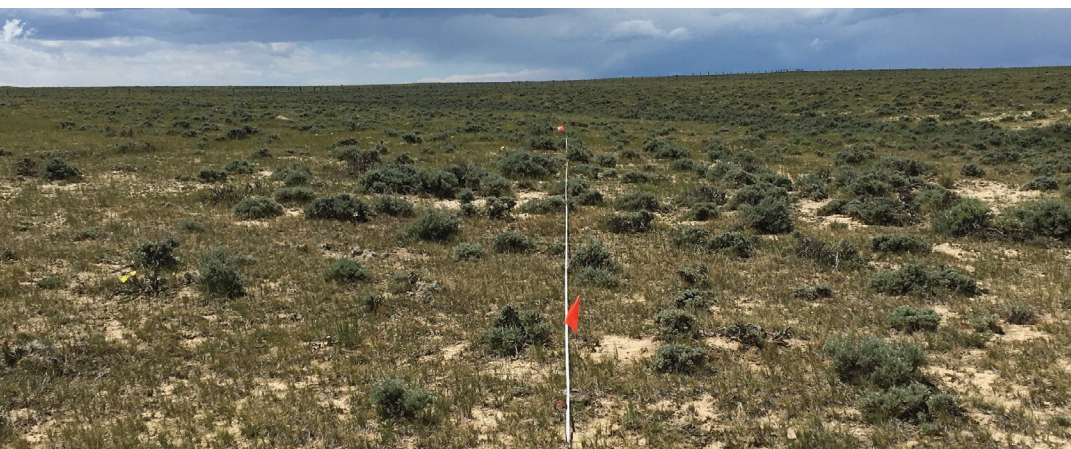
WILDLIFE RESOURCES

Grouse Mountain specializes in wildlife services for oil and gas development, wind and solar energy, mining, NEPA compliance, and scientific research for clients including industry, federal agencies, state departments, and private individuals.

We provide support and guidance for our clients as they navigate environmental regulatory processes from pre-planning through post-development project phases.

We will design and implement wildlife studies and mitigation strategies compliant with federal and state regulations for threatened and endangered species, species of concern, and special status plant and animal species.

Our team of expert wildlife biologists is here to help you with all your wildlife needs.



WILDLIFE REGULATORY COMPLIANCE

ENDANGERED SPECIES ACT (ESA)

MIGRATORY BIRD TREATY ACT (MBTA)

BALD AND GOLDEN EAGLE PROTECTION ACT (EAGLE ACT)

LAND-BASED WIND ENERGY GUIDELINES

BIRD AND BAT CONSERVATION STRATEGIES

EAGLE CONSERVATION PLANS (ECP)

EAGLE DEPREDATION, NEST TAKE, AND NON-PURPOSEFUL
TAKE EAGLE PERMITS

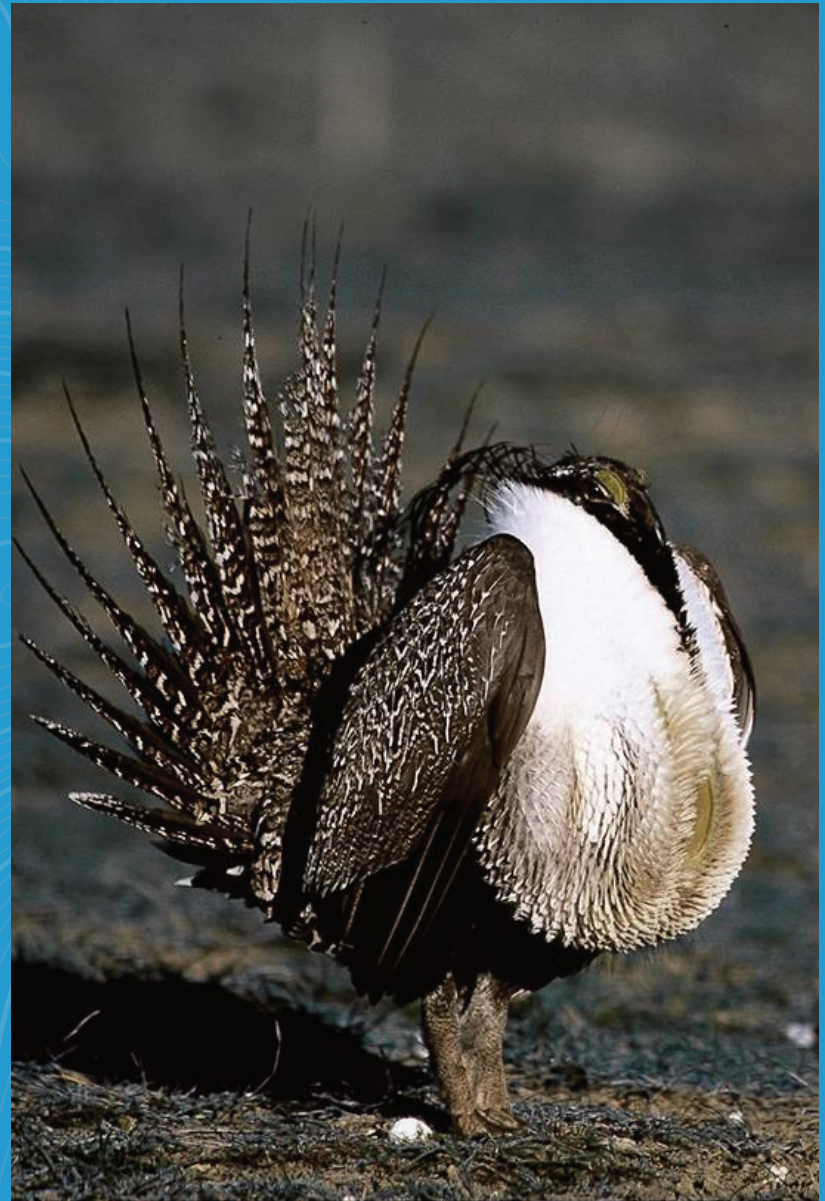
BUREAU OF LAND MANAGEMENT, US FOREST SERVICE

US FISH AND WILDLIFE SERVICE, TRIBAL, AND STATE
AGENCY REGULATIONS

MITIGATION DESIGN, MONITORING, AND IMPLEMENTATION

SECTION 7 CONSULTATION ASSISTANCE WITH THE
U.S. FISH AND WILDLIFE SERVICE

WILDLIFE MONITORING & SURVEYS



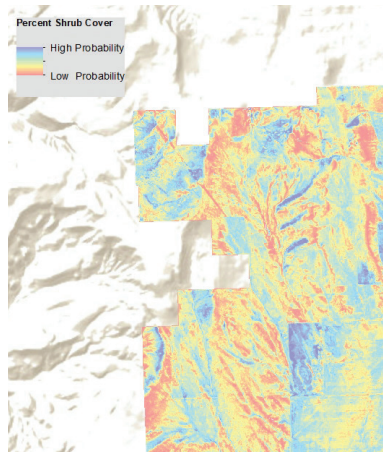
RECLAMATION PLANNING & IMPLEMENTATION

Reclaiming a project, if not done properly, can often be frustrating and costly. Grouse Mountain will assist you with minimizing costs and maximizing success throughout all phases of your reclamation project. From initial reclamation planning and implementation to seeding and monitoring programs, we will provide the knowledge to help make your reclamation project a success.



SPECIALIZED WILDLIFE SERVICES

- REMOTE SENSING AND SPATIAL MODELING
- HABITAT UTILIZATION AND RESOURCE SELECTION ANALYSES
- GREATER SAGE-GROUSE CORE AREA (PHMA) DDCT ANALYSES
- NOISE MONITORING
- HABITAT ASSESSMENTS AND RESTORATION
- ARTIFICIAL RAPTOR NEST STRUCTURE/PERCH DESIGN AND INSTALLATION



- DEVELOPMENT OF RECLAMATION STRATEGIES
- DEVELOPMENT OF CUSTOM SEED MIXES
- PIPELINE & INFRASTRUCTURE SEEDING
- WOOD/STRAW MULCH APPLICATION
- SOIL SAMPLING FOR RESERVOIR RECLAMATION, PIT CLOSURES, AND SOIL HEALTH EVALUATIONS
- INTEGRATED WEED MANAGEMENT STRATEGIES FOR SUCCESSFUL RESEEDING PROGRAMS
- SITE SPECIFIC RECLAMATION MONITORING & ASSESSMENT
- PRE-DISTURBANCE SITE CHARACTERIZATION
- PRE-CONSTRUCTION/PRE-RECLAMATION PLANNING

STORMWATER POLLUTION PREVENTION PLAN

A well-developed and adaptable Stormwater Pollution Prevention Plan (SWPPP) is necessary for construction sites to prevent stormwater contamination and remain compliant with the Clean Water Act. Grouse Mountain can assist with all aspects of a stormwater program from Notice of Intent (NOI) preparation to final release.



- NOTICE OF INTENT (NOI) PREPARATION
- STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DEVELOPMENT
- SITE MAP PREPARATION
- EROSION CONTROL PLANNING AND DESIGN
- BEST MANAGEMENT PRACTICES (BMP) INSTALLATION AND MAINTENANCE
- MONITORING PROGRAM DEVELOPMENT AND IMPLEMENTATION
- SWPPP INSPECTIONS
- COMPLIANCE INSPECTIONS
- NOTICE OF TERMINATION (NOT) PREPARATION

CULTURAL RESOURCES

When preparing for the future, remains of the past can emerge. Many projects that involve a federal nexus require cultural resource review under Section 106 of the National Historic Preservation Act of 1966.

Our cultural resource specialists work in coordination with federal agencies and the State Historic Preservation Office to identify and document historic resources and the project effect to those resources.

With over a decade of experience working throughout the High Plains and Pacific Northwest, our team of archaeologists are prepared to work in diverse landscapes and with various federal land management agencies ensuring a smooth federal review process.

- SECTION 106 ARCHAEOLOGICAL AND HISTORIC SURVEYS
- NATIONAL REGISTER OF HISTORIC PLACES (NRHP) EVALUATIONS AND NOMINATIONS
- EXCAVATION, TESTING, AND DATA RECOVERY
- CULTURAL RESOURCE MONITORING
- GIS MODELING FOR VISUAL RESOURCE MANAGEMENT AND ANALYSIS
- UAV CULTURAL LANDSCAPE ANALYSIS
- SERVICE AREAS: WYOMING, MONTANA, COLORADO, NORTH DAKOTA, AND SOUTH DAKOTA



WATER RESOURCE MANAGEMENT

Grouse Mountain hydrologists have extensive experience, from large-scale watershed modeling to small-scale stream assessments. We can help with all facets of your project whether you are assessing the condition of aquatic systems, implementing a mitigation strategy, or conducting water quality monitoring in a system.

WATERSHED

- GROUNDWATER PERMITTING
 - WATER APPROPRIATION, BENEFICIAL USE, & SUBSTITUTE WATER SUPPLY PLANS
- HYDROLOGIC ASSESSMENT
- WATERSHED MODELING
- WATERSHED MASTER PLANNING

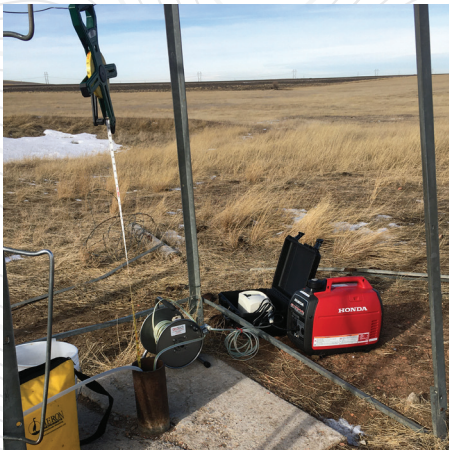
WETLANDS

- WETLAND DELINEATION/MAPPING
- US ARMY CORPS OF ENGINEERS' CONSULTATION
- WETLAND SURVEY
- WETLAND HABITAT QUALITY ASSESSMENT
- RIPARIAN ECOSYSTEM FUNCTION ASSESSMENTS
- CLEAN WATER ACT (CWA) SECTION 404/401, AND NATIONWIDE PERMIT COMPLIANCE (NWP)

STREAM & RIPARIAN AREA ASSESSMENTS

- PROPER FUNCTIONING CONDITION (PFC) OF STREAMS USING THE ROSEN CLASSIFICATION SYSTEM
- AQUATIC ASSESSMENT INVENTORY & MONITORING (AIM)
- MULTIPLE INDICATOR MONITORING OF STREAM CHANNELS & STREAMSIDE VEGETATION (MIM)
- INVERTEBRATE SAMPLING
- STREAM PHYSICAL HABITAT ASSESSMENTS
- STREAM MONITORING SITE ESTABLISHMENT
- STREAM RESTORATION
- WATER QUALITY MONITORING





WATER MONITORING

Grouse Mountain has highly trained and experienced personnel available to support and assist with your water monitoring needs. We serve a diverse array of clients and have experience handling a variety of local, state, and federal compliance issues. Our water monitoring program uses state of the art equipment and follows rigorous protocols to ensure that we provide the highest quality data to our clients and regulatory agencies.

Grouse Mountain has the expertise to support clients with the following:

- MONITORING GROUND/SURFACE WATER QUALITY FOR:
 - DISCHARGE PERMIT ISSUANCE AND COMPLIANCE
 - PRODUCED WATER PIT PERMIT CONSTRUCTION AND COMPLIANCE
 - BASELINE WATER QUALITY
- STORM WATER POLLUTION AND PREVENTION
 - INDUSTRIAL CONSTRUCTION ACTIVITIES
- WASTE WATER
 - EFFLUENT, LAND APPLICATION, AND WATER REUSE SAMPLING AND PERMITTING
- SEDIMENT SAMPLING
 - AGRICULTURAL/INDUSTRIAL EROSIONAL STUDIES
 - WATERSHED EROSIONAL STUDIES
- LABORATORY ANALYSIS CONSULTATION AND CONTRACTING
 - IDENTIFICATION OF PROPER SAMPLING CONSTITUENTS
- DATABASE MANAGEMENT AND REPORTING
 - PROPRIETARY WATER MONITORING DATABASE DEVELOPMENT
 - WATER QUALITY TREND ANALYSIS



WASTE MANAGEMENT

Successful management of waste is crucial in maintaining compliance and sustainability. Grouse Mountain has extensive experience in a wide spectrum of industries and can support compliance with the many federal and state waste programs they face.

- HAZARDOUS WASTE (RCRA) COMPLIANCE SUPPORT
- BENEFICIAL USE DETERMINATION SUPPORT
- CONSTRUCTION & DEBRIS (C&D) LANDFILL PERMITTING

EMERGENCY PLANNING & MATERIAL STORAGE

Grouse Mountain is highly trained and experienced in providing material management support, whether it be in emergency planning, response preparation, or accurate tracking of material storage and usage for potential release assessments. Effective chemical and material management is critical in reducing risk for any facility within any industry.

- SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN (SPCC) DEVELOPMENT
 - SPCC INSPECTIONS
- HAZARDOUS MATERIALS TIER II REPORTING
- CHEMICAL INVENTORIES
- TOXIC RELEASE INVENTORIES



ENVIRONMENTAL MANAGEMENT & COMPLIANCE

Grouse Mountain has a long history of keeping up with the ever-changing regulatory framework many industries face. Our dedicated and well-trained team are here to help you navigate these challenges. An effective management system with follow-up auditing will not only help keep your business in compliance, but striving towards sustainable development with effective risk management.

- ENVIRONMENTAL MANAGEMENT SYSTEM DEVELOPMENT (ISO 14001) & AUDIT PREPARATION
- OPERATIONAL FACILITY MULTI-MEDIA ENVIRONMENTAL COMPLIANCE AUDITS
- TREATMENT, STORAGE, DISPOSAL, AND RECYCLING FACILITY (TSDRF) AUDITS & REVIEWS



AIR COMPLIANCE

Effective air permitting is critical for guaranteeing planned projects meet projected timelines while permit conditions are seamlessly integrated into day-to-day operations. Grouse Mountain can assist with the many aspects of air permitting and compliance program development to ensure compliance with federal Clean Air Act and state air programs.

- AIR PERMITTING
- GREENHOUSE GAS (GHG) INVENTORIES & REPORTING
- SITE ASSESSMENTS & AUDITING



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