

Petroleum Technology Alliance Canada

Oil and Gas Industry Collaboration through the Remediation Reclamation Research Committee

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PTAC

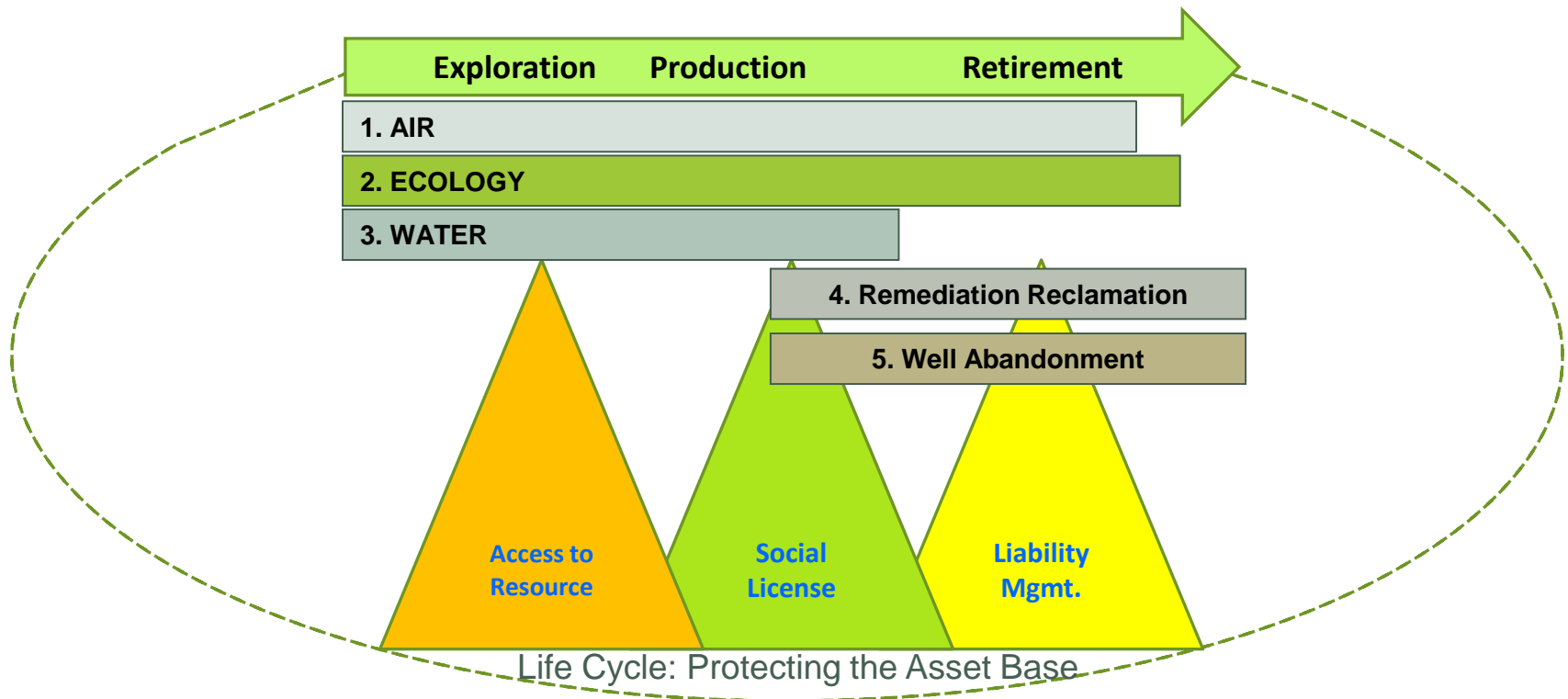
Driven. Innovative. Valuable.

- The Remediation Reclamation Research Committee (RRRC) is a technical arm of the AUPRF Program which conducts practical science-based studies to develop credible and relevant information to address knowledge gaps.
- The Alberta Upstream Petroleum Research Fund was launched to create innovation and collaborative R&D to minimize the environmental impacts of conventional oil and gas activities, economically.
- AUPRF is a collaboration funded by the Oil and Gas Sector working with government and regulators to create practical solutions.



AUPRF: Partnership for Performance Improvement

Collaboration Between Industry, Government & Regulators to Improve Environmental Performance



*Committee priorities, projects, and budgets are established by CAPP, and EPAC technical experts from member companies.

Remediation Reclamation Research Committee (RRRC)

- Ensures full and effective engagement with relevant regulators, stakeholders and subject matter experts through steering committee participation.
- Provides collaborative opportunities to match technical experts with funding to explore unique challenges and find defensible solutions
- Outcomes of the projects lead to the development of smart policies, regulations and best practices.
- Completed projects across the 5 topic areas have resulted in cost savings estimated (by industry) at \$125M annually.

Regulation and Guideline Impacts

- Remediation and Reclamation committee project results supported the following regulatory and guideline revisions/updates:
 - Stratified criteria for PHC *
 - Remote Green Zone Limits (F2-F3) *
 - Development of Subsoil Salinity Tool (SST) – Chloride *
 - Total Barium to extractable Barium (Barite)
 - Alberta Tier 1 Hydrocarbon Fraction F3 guideline change
 - Alberta Tier I for Boron
 - Salt endpoints in muskeg post brine release
 - Alberta Tier I Methanol
 - Alberta Tier I Sulfolane
 - Rapid Bioassay for Predicting Toxicity of PHC

2024/25 Policy Issues/Knowledge Gaps

Highest Priority Knowledge Gaps:

1. Salinity Assessment (delineation and characterization for chlorides)
2. Research to support future updates to forested well site reclamation criteria
3. Risk Assessment – Understanding receptors and standardizing risk assessment approaches (scalable) for chlorides
4. Use of remote sensing to assist in reclamation assessments and certification
5. Data Utilization

Notes:

1. *New land use planning framework is a key uncertainty*
2. *Details can be found at: <https://ptac.org/alberta-upstream-petroleum-research-fund-auprf/remediation-reclamation-research-committee-rrrc/>*



Alberta

Upstream Petroleum Research

Call for Proposals

We currently have an open call seeking proposals to address the knowledge gaps.

- Deadline to submit is November 4th
- The Step 1 proposal is a short online form which can be accessed here: <https://ptac.org/news/2025-auprf-call-for-proposals/>
- Two-page form asking for high level information about potential projects – scope, leveraged funding, value add for the sector.

PTAC

RRRC Members

- Adam Blair Canadian Natural
- Alana DeBusschere AER
- Brett Reynolds Shell Canada
- Cassandra Atkins Canadian Natural
- Deanna Cottrell Shell Canada
- Devin Scheck BC ER
- Erin High Ember Resources
- Jason Desilets Cenovus
- Jeff Mills Orphan Well Association
- Jonas Fenn Whitecap Resources
- Lance Miller CAPP
- Lisa Warren Cenovus
- Lori Neufeld Imperial Oil
- Paul Hartzheim CAPP
- Sara Blacklaws AER
- Shawn Glessing Cenovus
- Sheldon Exner Veren
- Steve Kullman Canadian Natural
- Tyrel Hemsley AEPA

RRRC Project Updates today

Evaluating Technology-based Assessments for Use in Reclamation Certification of Footprint	Stefan Schreiber, InnoTech Alberta
Process Guide for Approaching Salt Contamination	Sheila Luther & Ashley Morgan, Matrix Solutions/Montrose Environmental
Evaluation of Soil Chloride Delineation Requirements	Daniel Pollard & Ashley Morgan, Matrix Solutions/Montrose Environmental
Recent Research Results for Selenium and Sulphate Ecotoxicology and Methods for Livestock Risk	Viktoria Winter, Equilibrium Environmental Inc.
Alberta Tier 1 & 2 Guideline Tool – Phase II	Paul Fuellbrandt, Statvis Analytics Inc.
Subsoil Salinity Tool Version 3.0 Technical Manual Updates	Greg Huber, Equilibrium Environmental

Q&A – Speaker by Speaker

To reach us for questions about projects or the AUPRF program

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