

Manual Presentation

SARM Annual Convention Thursday, March 15 2018







Agenda

- 1. Overview
- 2. Aggregate in Saskatchewan
- 3. Strategic Gravel Supply Best Practices
- 4. Aggregate Management Cycle
- 5. Cost Considerations
- 6. Tools & Templates







Overview



Project Team



Timelines



Engagement









What & Why

Problem

- Gravel is a non-renewable resource
- Increasing competition for gravel
- Limited access to affordable gravel stocks
- No centralized information on how to explore, how to manage pits, key agreements and processes, leading practices

Solution

- An Aggregate Resource Manual that outlines:
 - 1. The Current State of Aggregate in Saskatchewan
 - 2. The Best Practices with regards to Strategic Gravel Supply
 - 3. The Aggregate Management Cycle
 - 4. Cost Considerations
 - 5. Tools & Templates







Aggregate in Saskatchewan

Themes from Engagement

- RMs focused on long-term gravel security
- Value for money critical for RMs
- RMs looking for broad support from the Aggregate Resource Manual with information on exploration, tendering, financial analysis, innovations, partnership ideas and legal templates and agreements

Regulatory Guidance

- Information on Relevant Legislation
- Processes and Considerations
 Related to Heritage Screening
- Environmental Considerations
- Who to Engage in Government
- Technical Expertise Required to Manage Risk



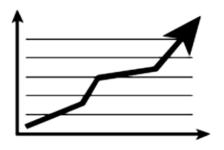




Strategic Gravel Supply **Best Practices**



Gravel Supply Options



Supply



Gravel **Development Procurement**

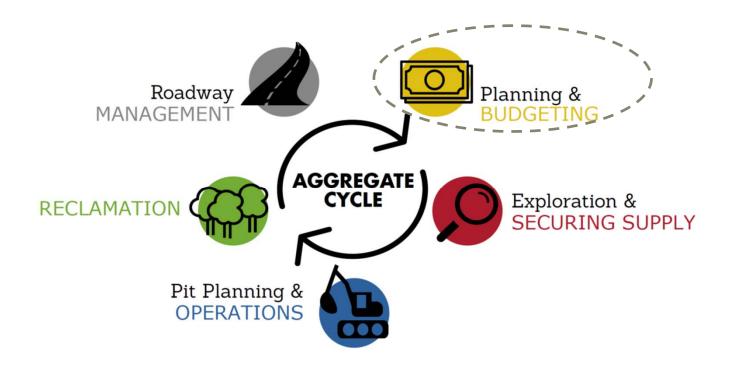


Partnership Models













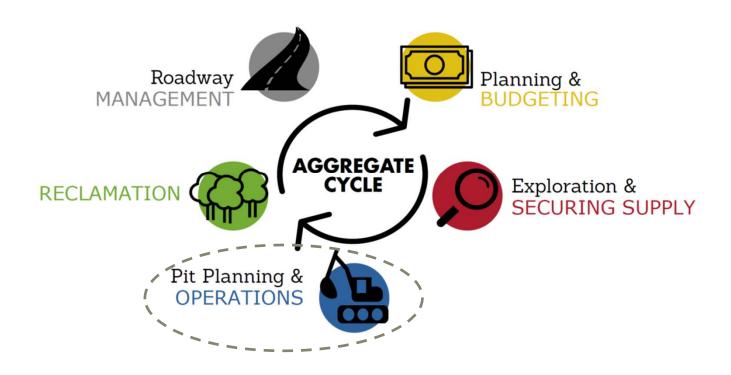








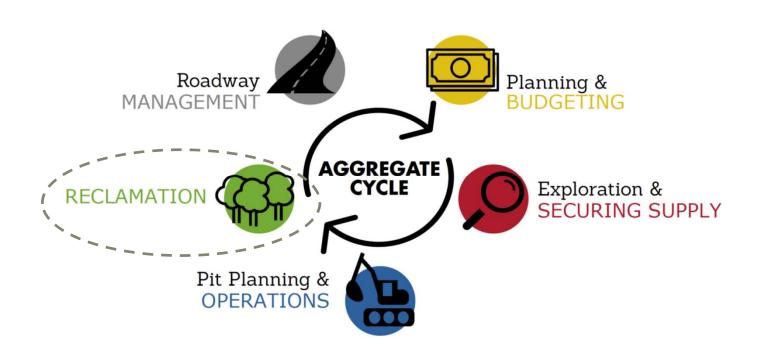


























Cost Considerations

Existing Financial Information

- Gravel Extraction Fees
 - Hauling Fees
 - Road Maintenance Agreement
 Fees
- All-In Costs for Gravel
 - Commentary on MHI Study
 - Costs By Aggregate Type
 - Costs By Division
 - Challenges with general findings for a location-specific resource

New Processes and Tools

- Cost Collaboration Model
 - Framework for information sharing
 - Deployed by Parkland area RMs
 - Recommendation to develop a voluntary, regional model
- Cost Benefit Analysis (CBA)
 - Approach and Financial Evaluation
 Tool
 - Three sample CBA Scenarios (Innovation, Land Purchase, Trucking)







Tools, Templates & Appendices

Tools & Templates

- 1. Road Maintenance Agreement Template
- 2. Road Maintenance Agreement Template (GoS)
- 3. Gravel Tender Template
- 4. Gravel Crushing Tender Template
- 5. Gravel Hauling Tender Template
- 6. Gravel Crushing Agreement
- 7. RM and Private Land Agreement
- 8. Extraction Fee Bylaw and Form
- 9. Fuel Tank Emergency Plan Template
- 10. History of Aggregate Deposit Form

Appendices

- 1. Specifications: Sub-Base Course
- 2. Specifications: Granular Base Course
- 3. Specifications: Traffic Gravel
- 4. Aggregate Exploration Tools
- 5.Sand & Gravel Lease Policy: GoS







Thank You

