Innovative Restoration Solutions for an Unregulated Dump-site

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This is a Story of a Successful Partnership

Owner, Consultant, Contractor, Regulator
What Was Accomplished . . .

- 11 000 m³ of material excavated and processed on-site
- Landscape and wetland restored
- 95% was reclaimed/recycled
- Costs were reduced ~50% (versus landfill and imported fill)
Using a Different Approach

- Non-landfill strategy - cheaper, better
- “Strategic” ESA (start at end-points)
- Early stakeholder engagement - ongoing collaboration
- On-site processing, materials handling, re-use
What did we see. . . and not see?

1. Concrete debris - small as a toaster, big as a refrigerator
2. Evidence of similar debris below ground-surface
3. Farm land to the North, East, and West. Residential development to the South
4. A wetland area....with debris
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Stages of Project & Activities

1. Site laydown area by process/stream
2. Soil pre-screening & preservation
3. Wetland protection & rehabilitation
4. Concrete processing & recycling
5. Final site restoration
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1. Cost optimized recovery and recycling was the goal
2. Concrete material processed to both 7.5cm and 15cm
3. 3 streams were recovered – concrete, steel, and soil/fines
4. Processed material in contained treatment cells on-site

Crushing & Recycling Activities
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Lessons-learned

- Define end-points and reach agreement with all stakeholders first
- Establish effective communication processes - right away
- Consider variability in planning - “slack” in execution
QUESTIONS

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