

From Hopeless to Hopeful:



Ryan Riess, M.Sc. P.Eng
R Squared Environmental Inc.
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Outline



Hopeless?



Background



Remediation



Next?

Fall 2023

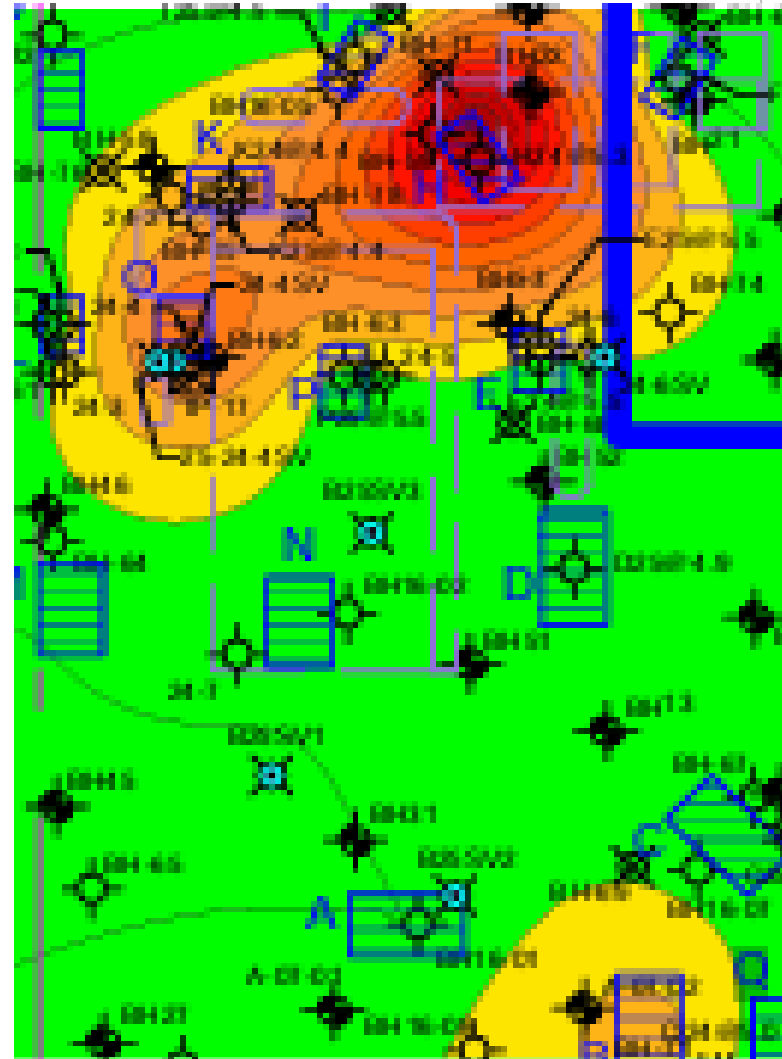


No permanent use since 1996



Planning - Baseline Soil

- ▶ Acquired from IOL early 2023
- ▶ BTEX, F1, F2,
 - ▶ 1,2 DCA, PCE, TCE
- ▶ Residential CG criteria, Tier 2
 - ▶ 4 year estimate to closure
- ▶ Proposed development
 - ▶ Southern portions of Site
 - ▶ Likely slab on grade



Remediation Team



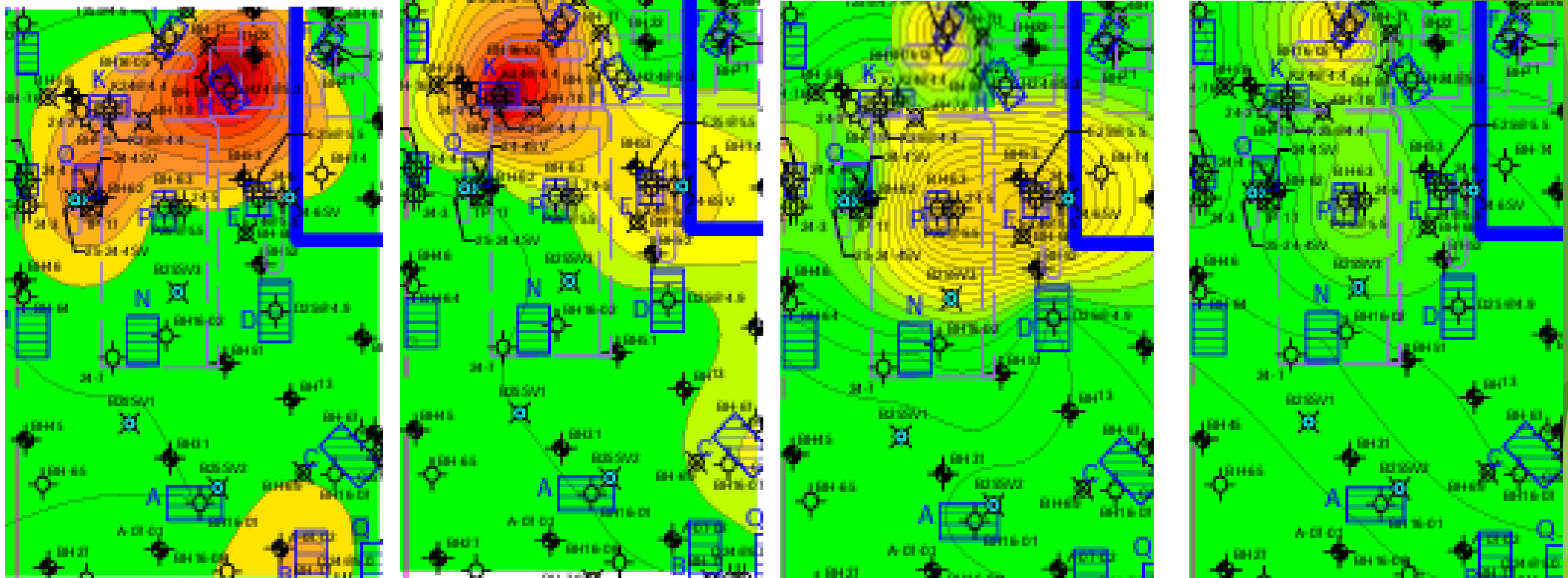
Amendments - PHCs



Progress Soil and GW Sampling



Soil Progression - F1 fraction



BASE

2023

2024

2025

0

>50x



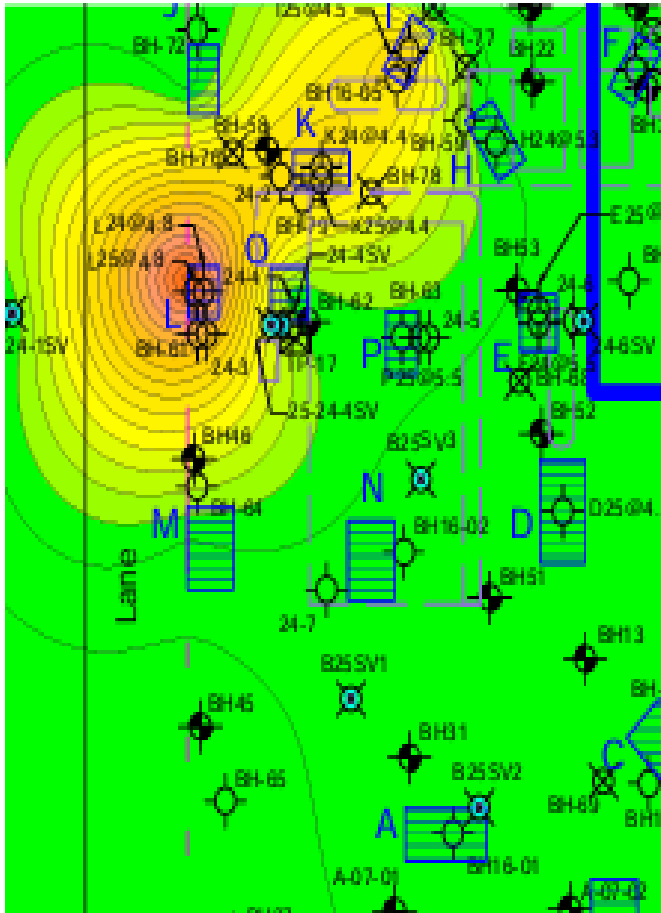
PCE/TCE Remediation

- ▶ Majority above water table
 - ▶ Likely Degreaser source based on distribution
- ▶ GW was below criteria before, during remediation
- ▶ Consolidated worst shallow soils for deeper treatment
- ▶ Soil mixing with ZVI and veg oil

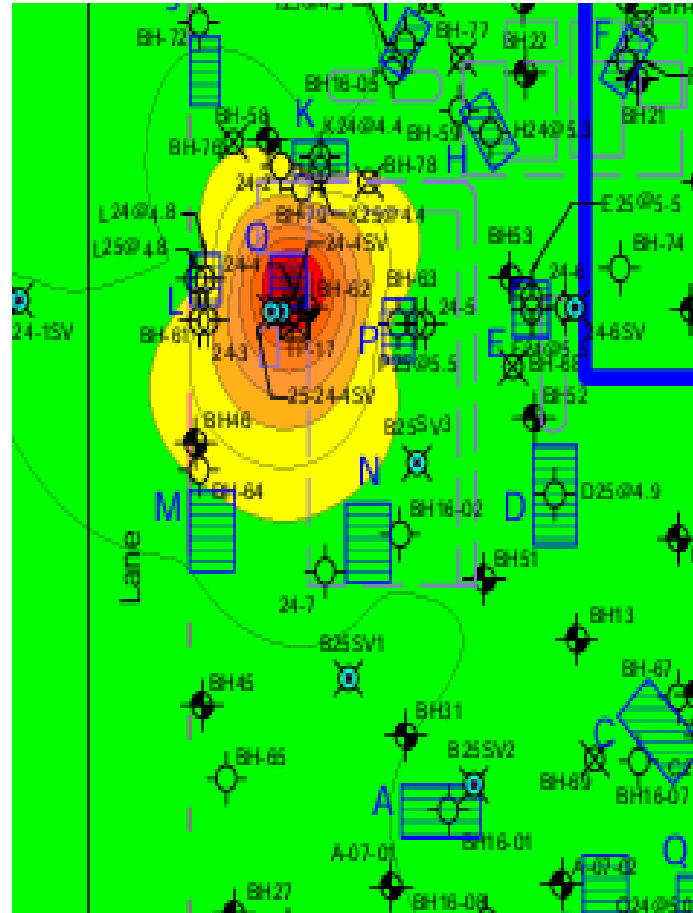
Amendments - PCE



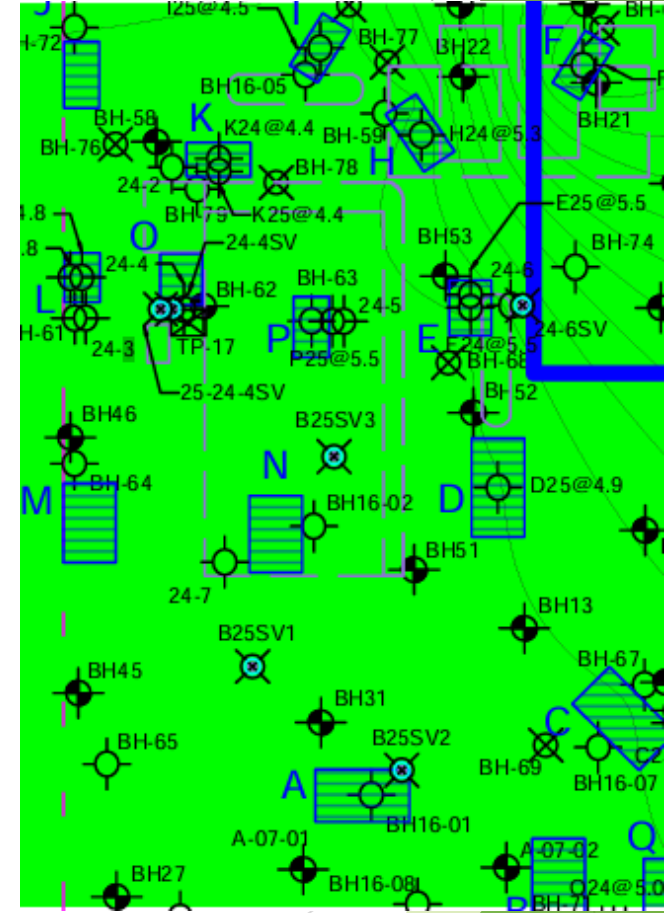
Soil Progression - PCE



BASE



2023



2024

Conclusions

2 years of remediation

TCE, PCE, 1,2 DCA > 99% reductions

F1 fraction ~85% reductions in soil

Benzene ~ 75% reductions in soil

Soil vapour samples < DL

Next Steps

- ▶ Tier 2 endpoints
- ▶ Tier 3 endpoints
- ▶ City of Saskatoon

- ▶ Ready to Build

Coming Soon



Nitro.iF



QUESTIONS?

ryan.riess@rsquaredenviro.com

306-227-2423