

Case Study

Spray in Liner Meritage Midstream



STRAY CAT

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Project: Spray in Liner

Location of project: Patterson Creek Facility, 75 KM SE of Grande Prairie, Alberta



Description of Application: Stray Cat supplied and built a zero ground disturbance steel containment system and applied a geotextile/polyurea liner. The substrate was uneven compacted dirt; Stray Cat laid out sand and raked to smoothen the ground, then laid out non-woven geotextile and coated with polyurea. All walls of the containment system were covered with geotextile and coated and clamped on top of the walls with a top cap. All pilings were blasted to a white finish or Nace #1/SSPC-SP5, then coated 1 foot from ground floor.

QA/QC Test Performed: Stray Cat monitored ambient conditions for humidity, dew point, temperatures, wind speeds, etc. before and during work each day. Daily QA/QC reports were completed and submitted to the client that included the products' batch numbers and manufacture date, all environmental conditions, blast profile, etc. Stray Cat performed various thickness tests throughout the project to verify proper and uniform thickness. Once the project was completed, Stray Cat representatives and the construction manager did a walk-through of the job before handing over to the client.

Details



Manufacturers: Raven Lining Systems for the polyurea and US Fabrics for the Geotextile

Size: 6000 ft²

Length of project: 5 days (1 day was lost due to weather)

Crew size: 3 technicians, 1 Foreman

Equipment on site: Graco Exp2 proportioner, Graco Fusion AP gun with a 4242 mixing chamber, 425 CFM compressor and deliquescent air dryer, #5 blast nozzle, 12/50 Mesh Enviro grit glass media

Type of Structure: Secondary containment for (4) 750 bbl tanks, 60 pilings

Condition of Structure: Uneven ground with puddles, new steel containment system, Newly pounded pilings with rust.

Date of Application: July 2017

Product Used: Raven 512 pure polyurea, desert sand coloured

Warranty: 5 year manufacturer and 2 year installation warranty

Unique Conditions or Experiences during Project: The weather had turned from sunny and clear to rainy suddenly while spraying and Stray Cat had to stop work for the day and wait until things had dried up. Approximately 24 hrs. lost due to weather delays. There were many other workers in the area, good communication and proper signage was very important.

Opinion of Project Owner - Product, Applicator Performance and Projected Future Use: Stray Cat had in the past done work for another major oil and gas company where the current Meritage superintendent had been employed. Because of the experience and quality of work on previous polyurea liners, Stray Cat was awarded the work with Meritage. The company has recently signed a Master Service Agreement with Stray Cat to install all their future liners.



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