


INDUSTRIAL SOLUTIONS USA

A Best Practices Solution

Odor/Condensation Reduction

Best Practice Overview:	 <p>Thick polyurea hybrid lining material was cast into sheets then laid over the grated channels and sump openings in the Headworks to reduce odor and condensation within the facility at City of Eldora Wastewater Plant, Eldora, IA.</p>
Applications:	Grated floor channels, trenches and sump holes.
Target Markets:	Wastewater treatment facilities and other liquid processing facilities. Facilities that use liquids in processing organic material.
Lining Formulation:	Polyurea/polyurethane 100% solids castable
Lining Contractor:	Industrial Linings, Inc. Dan Morris – Owner Cedar Falls, IA

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Current Situation:



Headworks in wastewater treatment facilities often have grated floor channels, trenches and grated sump holes that allow for emission of odor vapor into the facility.

The odor itself is a problem as is the condensation of vapor on non-insulated pipe and RPZs.

The condensation causes continuous dripping and pooling of condensate on the floor.

Corrosion of metal is a maintenance cost and the slip hazard is a potential workers compensation liability. Note: The grit dumpster has been cast lined with this formulation.

The ISUSA Solution:

Large sheets of 1/8"-1/4" thick cast polyurea hybrid linings were made according to the customer's specifications. The sheets were then laid down over the grates containing the odor emission and vapor transmission in the facility. Within 2 days the odor had been significantly reduced and the vapor transmission contribution to condensation on the pipes and RPZ had been eliminated. No more condensate had pooled on the floor.



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The lining sheets/mats were easily cut to accommodate special shapes.



Benefits Realized:

- ✓The cast lining sheets/mats can be made to install over any size or shape grated opening.
- ✓The dense lining material will significantly reduce odor generation, condensation and corrosion:
 - creating a better working environment,
 - a safer working environment and
 - saving maintenance costs.
- ✓Our lining solution can be made thicker where more wear is expected to occur.
- ✓Our linings are chemically resistant.
- ✓Our linings are significantly more robust than installing alternative products.
- ✓Our linings are long lasting and competitively priced.

For more information, samples and bids please contact Industrial Solutions USA.