



**Honeywell**



# **Dundalk Marine Terminal Remediation Community Participation Working Group Presentation**

**January 8, 2014**



# Update on Remedy Implementation

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- Corrective Measures Implementation Schedule updated quarterly in 2013; submitted to MDE
- 13<sup>th</sup> Street Storm Drain Rehabilitation Project Construction Completion Report submitted to MDE in June 2013
- Supplemental Data Report for the Heave Investigation and Minimization Study submitted to MDE in June 2013
- Continued monthly coordination calls with MDE

*MDE provides oversight of Remedy implementation*





# Update on Construction Activities **Honeywell**

- Design of truck wash station and storage tank complete; construction scheduled for 2014
- All 15<sup>th</sup> Street Storm Drain vault installations complete
- Storm Drains relined
  - 13<sup>th</sup> Street, 13.5 Street: performing post-construction inspection and maintenance
  - Phases 1 and 2 of 15<sup>th</sup> Street relining complete; Phase 3 scheduled for 2014



A storage tank will be added to existing tanks



Installation of manhole at 15<sup>th</sup> Street storm drain



15<sup>th</sup> street storm drain relining in progress

*Remedy implementation on schedule / maintenance on-going*



# Continued Monitoring and Maintenance

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## Air

- Monitoring of air at perimeter of Terminal since 2007; no detections of hexavalent chromium from COPR in perimeter air monitors



## Groundwater

- Groundwater is monitored on semi-annual basis in 34 wells located at perimeter of COPR fill area; results confirm that hexavalent chromium is not leaving site boundary in groundwater at unacceptable levels

## Storm water

- Storm water is monitored quarterly from 12 storm drain outfalls and outfall from treatment plant; final remedy addresses storm water

## Drinking Water

- Drinking water is routinely monitored; no detections of hexavalent chromium in drinking water at Terminal

## Surface Cover

- On-going Surface Cover inspection program for COPR fill area; 30 acres of surface cover repaired since 2005



***Monitoring programs measure effectiveness of remedy***



# Continued Success

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- Visual inspections and routine maintenance of storm drains demonstrate effectiveness of containment
- Air monitoring program demonstrates no COPR being transported through the air
- Demonstrated effectiveness of surface cover program and engineering controls
- Semi-annual groundwater sampling continues to show no off-site movement of hexavalent chromium



# Storm Drain Repair Schedule

| 2013                       | 2014  | 2015   |
|----------------------------|---|--|
| <p>Clean &amp; Inspect</p> | <p>15<sup>th</sup> Street Storm Drain Repair</p>                            |  |
|                            | <p>Clean &amp; Inspect</p> <p>14<sup>th</sup> Street Storm Drain Repair</p> |  |
|                            | <p>Clean &amp; Inspect</p>  | <p>12<sup>th</sup> Street Storm Drain Repair</p>   |
|                            | <p>Clean &amp; Inspect</p>  | <p>12.5<sup>th</sup> Street Storm Drain Repair</p> |

*Schedule submitted to MDE*