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April 4, 2013

Mr. James Carroll
Administrator, Land Restoration Program
Maryland Department of the Environment
1800 Washington Boulevard, Suite 645
Baltimore, MD 21230-1719

Subject: Q1 2013 Storm Drain Rehabilitation Schedule, Dundalk Marine Terminal, Baltimore, Maryland

Dear Mr. Carroll:

Honeywell International Inc. (Honeywell) and the Maryland Port Administration (MPA) are submitting the enclosed updated "Storm Drain Rehabilitation Schedule, Dundalk Marine Terminal, Baltimore, Maryland." This update is submitted to reflect the status of remedy implementation and long-term monitoring pursuant to MDE's letter of July 30, 2012, and replaces the quarterly CMIPP update.

If you have any questions or require additional information, please contact me at 973-455-4131.

Very truly yours,

HONEYWELL INTERNATIONAL INC.

Christopher M. French
Project Coordinator

Enclosure (2 copies)

cc: Mr. Matthew Zimmerman/MDE
Mr. Mark Kreafle/MPA
Mr. Robert Munroe/MPA
Mr. Michael Daneker/Arnold & Porter

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Schedule for Implementation of Storm Drain Repairs at Dundalk Marine Terminal, Q1 2013

Task	When Task Starts/Predecessor	Duration[a] (Calendar Days)	Status/Comments/Assumptions/Slippage Notes
13th Street Storm Drain			
Prepare Construction Completion Report			
Prepare Draft Report	Completion of final QA/QC inspection	60–90	—
Submit Draft Report to MDE	Completion of draft report	M	Scheduled for submittal to MDE by April 26, 2013
MDE Review and Comment Period	Submittal of draft report	TBD	Not a critical path task
Address MDE Comments	Receipt of MDE comments	30–45	Not a critical path task
Submit Final Report to MDE	Response to MDE comments	10–20	Not a critical path task
13.5 Street Storm Drain			
Prepare Construction Completion Report			
Prepare Draft Report	Completion of final QA/QC inspection	60–90	13.5 Street CCR preparation initiated in December 2012
Submit Draft Report to MDE	Completion of draft report	M	Scheduled for Submittal to MDE by May 17, 2013
MDE Review and Comment Period	Submittal of draft report	TBD	Not a critical path task
Address MDE Comments	Receipt of MDE comments	30–45	Not a critical path task
Submit Final Report to MDE	Response to MDE comments	10–20	Not a critical path task
15th Street Storm Drain (Planning Estimate Start Date: March 2013, Planning Estimate End Date: July 2014)			
Scoping of 2013 Storm Rehabilitation Work			
Perform condition inspections of inlets and manholes	Prior to comprehensive cleaning	30–60	Primary inspections complete
Perform Comprehensive Cleaning			
Develop Cleaning SOW and Procurement Documents		30	Completed during Q1 2013.
Complete Solicitation and Contract Award	Completion of procurement package	30	Solicitation Complete/Bids with Contract Award during April 2013.
Contractor Mobilization and Operations Clearance	Contract award	20	Mobilization to commence during May 2013.
Notification to MDE of Initiation of Cleaning	Contractor mobilization	M	Cleaning to be performed on select portions of storm drains to be relined during 2013.
Clean Vaults, Manholes and Drain Lines	MDE notification	30–60	Cleaning will depend on extent of debris and sediment and will be performed on select portions of the vaults, manholes and drain lines to be rehabilitated during 2013.
QA/QC Inspection of Drain	Ongoing during cleaning	30–60	Inspections to be performed during and after rehabilitation work are completed.
Contractor Demobilization	Completion of final QA/QC inspection	3–10	Not a critical path task.
Notification to MDE of Completion of Cleaning	Completion of final QA/QC inspection	M	Milestones task.
Conduct CCTV and visual inspection			
Prepare CCTV SOW and Procurement Documents	Not linked to a predecessor task	20–30	Some inspection may begin as portions of the storm drain system are cleaned.
Complete Solicitation and Contract Award	Completion of procurement package.	30	—
Contractor Mobilization and Operations Clearance	Contract award	10–15	—

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Task	When Task Starts/Predecessor	Duration[a] (Calendar Days)	Status/Comments/Assumptions/Slippage Notes
Notification to MDE of Initiation of Inspection	Contractor mobilization	M	Milestone task
Inspect Vaults, Manholes and Drain Lines	Completion of cleaning and MDE notification	10–20	Some inspection may occur as portions of the storm drain are cleaned
Notification to MDE of Completion of Inspection	Completion of inspection	M	Milestone task
Prepare Design of Rehabilitation Program			
Evaluate Inspection Documentation	Completion of inspection	10–15	Completed during Q1 2013.
Complete Selection of Rehabilitation Techniques	Completion of inspection evaluation	10–15	Completed as part of storm drain scoping during Q1 2013
Prepare Design and Specification Documents	Selection of rehabilitation techniques	15–30	Completed during Q1 2013.
Provide Rehabilitation Design Documents to MDE	Completion of design	M	To be provided to MDE upon contract award during Q2 2013.
Complete Storm Drain Rehabilitation			
Prepare SOW and Procurement Documents	Completion of design	5–10	2013 SOW elements designed during Q1 2013.
Complete Solicitation and Contract Award	Completion of procurement package	15–30	Completed during March 2013 for rehabilitation work to be performed during 2013.
Contractor Mobilization and Operations Clearance	Contract award	15–30	May 2013; schedule will depend on access to work areas based on port operations.
Notification to MDE of Initiation of Rehabilitation and Update Schedule	Contractor mobilization	M	Milestone task, MDE to be provided updated schedule on contractor selection has been completed during April 2013.
Rehabilitate Inlets and Manholes	MDE notification	200–400	Select inlets and manholes to be rehabilitated during 2013.
Rehabilitate Storm Drain Lines	MDE notification	15–30	Select sections of storm drains to be rehabilitated during 2013.
Award of Inlet and Manhole relining 2013 SOW	Contract Award	15–30	Contract award for 2013 SOW during April 2013.
QA/QC Inspection of Drain Repairs	Ongoing during construction	10–15	Inspections to be performed during and after completion of rehabilitation activities.
Notification to MDE of Completion of Repairs	Completion of final QA/QC inspection	M	Milestone task
Initiation of Performance Monitoring	Completion of final QA/QC inspection	M	Milestone task
Prepare Construction Completion Report			
Prepare Draft Report	Completion of final QA/QC inspection	60–90	Not a critical path task
Submit Draft Report to MDE	Completion of draft report	M	Milestone task
MDE Review and Comment Period	Submittal of draft report	TBD	Not a critical path task
Address MDE Comments	Receipt of MDE comments	30–45	Not a critical path task
Submit Final Report to MDE	Response to MDE comments	10–20	Not a critical path task
14th Street Storm Drain (Planning Estimate Start Date: August 2013, Planning Estimate End Date: November 2014)			
Perform comprehensive Cleaning			
Develop Cleaning SOW and Procurement Documents		30	14th Street line cleaning activities to be performed while construction on 15th is being completed so that 14th Street construction begins just after completion of 15th Street construction

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Task	When Task Starts/Predecessor	Duration[a] (Calendar Days)	Status/Comments/Assumptions/Slippage Notes
Complete Solicitation and Contract Award	Completion of procurement package	30	—
Contractor Mobilization and Operations Clearance	Contract award	20	—
Notification to MDE of Initiation of Cleaning	Contractor mobilization	M	Milestone task.
Clean Vaults, Manholes and Drain Lines	MDE notification	30–60	Cleaning Period will depend on extent of debris and sediment.
QA/QC Inspection of Drain	Ongoing during cleaning	30–60	—
Contractor Demobilization	Completion of final QA/QC inspection	3–10	Not a critical path task.
Notification to MDE of Completion of Cleaning	Completion of final QA/QC inspection	M	Milestones task.
Conduct CCTV and visual inspection			
Prepare CCTV SOW and Procurement Documents	Not linked to a predecessor task	20–30	Start procurement process such that inspection can begin just after completion of cleaning. Some inspection may begin as portions of the storm drain system are cleaned.
Complete Solicitation and Contract Award	Completion of procurement package.	30	—
Contractor Mobilization and Operations Clearance	Contract award	10–15	—
Notification to MDE of Initiation of Inspection	Contractor mobilization	M	Milestone task
Inspect Vaults, Manholes and Drain Lines	Completion of cleaning and MDE notification	10–20	Some inspection may occur as portions of the storm drain are cleaned
Notification to MDE of Completion of Inspection	Completion of inspection	M	Milestone task
Prepare Design of Rehabilitation Program			
Evaluate Inspection Documentation	Completion of inspection	10–15	—
Complete Selection of Rehabilitation Techniques	Completion of inspection evaluation	10–15	Schedule depends of extent of repairs and/or need for replacement
Prepare Design and Specification Documents	Selection of rehabilitation techniques	15–30	—
Provide Rehabilitation Design Documents to MDE	Completion of design	M	Milestone task
Complete Storm Drain Rehabilitation			
Prepare SOW and Procurement Documents	Completion of design	5–10	Schedule depends on extent of repairs and/or need for replacement
Complete Solicitation and Contract Award	Completion of procurement package	15–30	—
Contractor Mobilization and Operations Clearance	Contract award	15–30	Schedule will depend on contractor readiness and port operations
Notification to MDE of Initiation of Rehabilitation and Update Schedule	Contractor mobilization	M	Milestone task, provide MDE updated schedule.
Rehabilitate Vaults, Manholes and Drain Lines	MDE notification and shortly after construction is complete at the 15th Street storm drain	200–300	Schedule depends on extent of repairs and/or need for replacement and shall initiate as soon as practical after completion of 15th Street construction.
QA/QC Inspection of Drain Repairs	Ongoing during construction	10–15	—
Notification to MDE of Completion of Repairs	Completion of final QA/QC inspection	M	Milestone task
Initiation of Performance Monitoring	Completion of final QA/QC inspection	M	Milestone task
Prepare Construction Completion Report			
Prepare Draft Report	Completion of final QA/QC inspection	30–60	Not a critical path task

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Task	When Task Starts/Predecessor	Duration[a] (Calendar Days)	Status/Comments/Assumptions/Slippage Notes
Submit Draft Report to MDE	Completion of draft report	M	Milestone task
MDE Review and Comment Period	Submittal of draft report	TBD	Not a critical path task
Address MDE Comments	Receipt of MDE comments	30–45	Not a critical path task
Submit Final Report to MDE	Response to MDE comments	10–20	Not a critical path task
12th Street Storm Drain (Planning Estimate Start Date: August 2014, Planning Estimate End Date: November 2015)			
Perform comprehensive Cleaning			
Develop Cleaning SOW and Procurement Documents		30	12th Street line cleaning activities to be performed while construction on 14th is being completed so that construction begins on 12th Street just after completion of 14th Street construction
Complete Solicitation and Contract Award	Completion of procurement package	30	—
Contractor Mobilization and Operations Clearance	Contract award	20	—
Notification to MDE of Initiation of Cleaning	Contractor mobilization	M	Milestone task.
Clean Vaults, Manholes and Drain Lines	MDE notification	30–60	Cleaning Period will depend on extent of debris and sediment.
QA/QC Inspection of Drain	Ongoing during cleaning	30–60	—
Contractor Demobilization	Completion of final QA/QC inspection	3–10	Not a critical path task.
Notification to MDE of Completion of Cleaning	Completion of final QA/QC inspection	M	Milestones task.
Conduct CCTV and visual inspection			
Prepare CCTV SOW and Procurement Documents	Not linked to a predecessor task	20–30	Start procurement process such that inspection can begin just after completion of cleaning. Some inspection may begin as portions of the storm drain system are cleaned.
Complete Solicitation and Contract Award	Completion of procurement package.	30	—
Contractor Mobilization and Operations Clearance	Contract award	10–15	—
Notification to MDE of Initiation of Inspection	Contractor mobilization	M	Milestone task
Inspect Vaults, Manholes and Drain Lines	Completion of cleaning and MDE notification	10–20	Some inspection may occur as portions of the storm drain are cleaned
Notification to MDE of Completion of Inspection	Completion of inspection	M	Milestone task
Prepare Design of Rehabilitation Program			
Evaluate Inspection Documentation	Completion of inspection	10–15	—
Complete Selection of Rehabilitation Techniques	Completion of inspection evaluation	10–15	Schedule depends of extent of repairs and/or need for replacement
Prepare Design and Specification Documents	Selection of rehabilitation techniques	15–30	—
Provide Rehabilitation Design Documents to MDE	Completion of design	M	Milestone task
Complete Storm Drain Rehabilitation			
Prepare SOW and Procurement Documents	Completion of design	5–10	Schedule depends on extent of repairs and/or need for replacement
Complete Solicitation and Contract Award	Completion of procurement package	15–30	—
Contractor Mobilization and Operations Clearance	Contract award	15–30	Schedule will depend on contractor readiness and port operations

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Task	When Task Starts/Predecessor	Duration[a] (Calendar Days)	Status/Comments/Assumptions/Slippage Notes
Notification to MDE of Initiation of Rehabilitation and Update Schedule	Contractor mobilization	M	Milestone task, provide MDE with updated schedule
Rehabilitate Vaults, Manholes and Drain Lines	MDE notification and shortly after construction is complete at the 14th Street storm drain	200–300	Schedule depends on extent of repairs and/or need for replacement
QA/QC Inspection of Drain Repairs	Ongoing during construction	10–15	—
Notification to MDE of Completion of Repairs	Completion of final QA/QC inspection	M	Milestone task
Initiation of Performance Monitoring	Completion of final QA/QC inspection	M	Milestone task
Prepare Construction Completion Report			
Prepare Draft Report	Completion of final QA/QC inspection	60–90	Not a critical path task
Submit Draft Report to MDE	Completion of draft report	M	Milestone task
MDE Review and Comment Period	Submittal of draft report	TBD	Not a critical path task
Address MDE Comments	Receipt of MDE comments	30–45	Not a critical path task
Submit Final Report to MDE	Response to MDE comments	10–20	Not a critical path task
12.5th Street Storm Drain (Planning Estimate Start Date: November 2014, Planning Estimate End Date: December 2015)			
Perform comprehensive Cleaning			
Develop Cleaning SOW and Procurement Documents		30	12.5th Street line cleaning activities to be performed while construction on 12th is being completed so that construction of 12.5 Street begins just after completion of 12th Street construction
Complete Solicitation and Contract Award	Completion of procurement package	30	—
Contractor Mobilization and Operations Clearance	Contract award	20	—
Notification to MDE of Initiation of Cleaning	Contractor mobilization	M	Milestone task.
Clean Vaults, Manholes and Drain Lines	MDE notification	30–60	Cleaning Period will depend on extent of debris and sediment.
QA/QC Inspection of Drain	Ongoing during cleaning	30–60	—
Contractor Demobilization	Completion of final QA/QC inspection	3–10	Not a critical path task.
Notification to MDE of Completion of Cleaning	Completion of final QA/QC inspection	M	Milestones task.
Conduct CCTV and visual inspection			
Prepare CCTV SOW and Procurement Documents	Not linked to a predecessor task	20–30	Start procurement process such that inspection can begin just after completion of cleaning. Some inspection may begin as portions of the storm drain system are cleaned.
Complete Solicitation and Contract Award	Completion of procurement package.	30	—
Contractor Mobilization and Operations Clearance	Contract award	10–15	—
Notification to MDE of Initiation of Inspection	Contractor mobilization	M	Milestone task
Inspect Vaults, Manholes and Drain Lines	Completion of cleaning and MDE notification	10–20	Some inspection may occur as portions of the storm drain are cleaned
Notification to MDE of Completion of Inspection	Completion of inspection	M	Milestone task

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Task	When Task Starts/Predecessor	Duration[a] (Calendar Days)	Status/Comments/Assumptions/Slippage Notes
Prepare Design of Rehabilitation Program			
Evaluate Inspection Documentation	Completion of inspection	10–15	—
Complete Selection of Rehabilitation Techniques	Completion of inspection evaluation	10–15	Schedule depends of extent of repairs and/or need for replacement
Prepare Design and Specification Documents	Selection of rehabilitation techniques	15–30	—
Provide Rehabilitation Design Documents to MDE	Completion of design	M	Milestone task
Complete Storm Drain Rehabilitation			
Prepare SOW and Procurement Documents	Completion of design	5–10	Schedule depends on extent of repairs and/or need for replacement
Complete Solicitation and Contract Award	Completion of procurement package	15–30	—
Contractor Mobilization and Operations Clearance	Contract award	15–30	Schedule will depend on contractor readiness and port operations
Notification to MDE of Initiation of Rehabilitation and Update Schedule	Contractor mobilization	M	Milestone task, provide MDE with updated schedule
Rehabilitate Vaults, Manholes and Drain Lines	MDE notification and shortly after construction is complete at the 12th Street storm drain	150–250	Schedule depends on extent of repairs and/or need for replacement
QA/QC Inspection of Drain Repairs	Ongoing during construction	10–15	—
Notification to MDE of Completion of Repairs	Completion of final QA/QC inspection	M	Milestone task
Initiation of Performance Monitoring	Completion of final QA/QC inspection	M	Milestone task
Prepare Construction Completion Report			
Prepare Draft Report	Completion of final QA/QC inspection	60–90	Not a critical path task
Submit Draft Report to MDE	Completion of draft report	M	Milestone task
MDE Review and Comment Period	Submittal of draft report	TBD	Not a critical path task
Address MDE Comments	Receipt of MDE comments	30–45	Not a critical path task
Submit Final Report to MDE	Response to MDE comments	10–20	Not a critical path task

[a] Task durations could vary based on inspection results and severity and scope of rehabilitation.