

Waterways Association of Pittsburgh

March 2011 Navigation Committee Report

APRIL 13, 2011

Eunice Ratcliff

Navigation Committee Chairman

Emsworth Lock & Dam

GATE RATINGS AND SCHEDULE:

Emsworth Lock & Dam currently has 80' open on the dam. All out on the dam is now 90'. Please be advised that the small chamber is now out of operation at Emsworth. Also no doubles will be locked until the gate opening is reduced back down to 70' at which time they will accept one length. When the gate opening is reduced to 65' two length cuts will be accepted. A gate opening of less than 65' will allow a normal double lockage. This is due to the loss of 2 gates. Please see attached Gate Ratings and Schedule.

High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- *Widespread flooding ongoing*
- *Some major flooding mainly in northern Ohio.*
- *Thunderstorms and convection were a major challenge as discussed yesterday. Weather models did not do a good job over the weekend.*
- *Rain will end in the Cumberland Valley this afternoon*
- *Drier for next several days but a weekend storm looms*
- *NOAA/NWS/OHRFC is on 24-hour operations until further notice*

Navigation Hazard Reported

MONONGAHELA RIVER MILE 94:

Navigation Hazard (Snag) at Monongahela River Mile 94 - Laurita Dock. Snag is mid channel. Please utilize caution when transiting this area.

Allegheny River Lock & Dam 7

OUT OF OPERATION

Lock went out of operation at 2000. Upper Gauge 18.41' Lower Gauge 25.97'.

MARCH 1, 2011

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

The following Pittsburgh District locations are currently in the watch phase or the action phase of the Waterways Action Plan. Please remain vigilant and ensure all vessels and facilities are prepared for the current and forecast predictions.

ALLEGHENY RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 7		18.4'	Watch	

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	42.0'		Watch	
Lock 4	52.0'		Action	
Maxwell	32.0'		Watch	
Grays Landing		17.3'	Watch	
Point Marion	27.5'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	
Dashields		21.0'	Watch	
Montgomery	100.0'		Action	
New Cumberland	121.0'		Watch	
Pike Island	154.0'		Watch	

High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- CW Bill Young L/D and Pittsburgh to crest near flood stage by evening.
- Crest will move down the Ohio River to Hannibal by Wednesday afternoon.
- Possible significant rain event Saturday night or Sunday

Allegheny River

CRESTS:

- Lock 9 crested at 0400 hours today. Upper gage 17.87'
- Lock 8 crested at 0600 hours today. Upper gage 18.47' Walls were topped.
- Lock 7 crested at 0600 hours today. Upper gage 18.43'
- Lock 6 crested at 0700 hours today. Upper gage 18.80'
- Lock 5 crested at 0730 hours today. Upper gage 21.66' Walls were topped.
- Lock 4 crested at 1100 hours today. Upper gage 19.59'
- CW Bill Young Lock remains fully operational crested at 1100 hours today. Upper gage 16.68'
- Lock 2 remains fully operational crested at 1200 hours today. Upper gage 17.30'

Dashields Lock & Dam

OUT OF OPERATION:

Lock went out of operation at 1300. Upper Gauge 22.2' Lower Gauge 26.6'.

Hannibal Lock & Dam

HEAVY DRIFT ISSUES:

Hannibal is currently experiencing heavy drift issues in the upper approach. The plan is to place the bulkheads in the small chamber tomorrow a.m. and they should have the ability to begin running drift through the small chamber within the next couple of days as the water recedes.

MARCH 2, 2011

Dashields Lock & Dam

BACK IN OPERATION:

Lock went back in operation at 0001. Tow haulage equipment remains out of operation at this time.

Hannibal Lock & Dam

HEAVY DRIFT ISSUES:

Hannibal is currently experiencing heavy drift issues in the upper approach. They began installing bulkheads in the small chamber this a.m.

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

The following Pittsburgh District locations are currently in the watch phase or the action phase of the Waterways Action Plan. Please remain vigilant and ensure all vessels and facilities are prepared for the current and forecast predictions.

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	42.0'		Watch	
Lock 4	24.0'		Watch	
Maxwell	18.0'		Watch	
Grays Landing		15.3'	Watch	
Point Marion	20.5'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	
Dashields		20.5'	Watch	
Montgomery	97.0'		Action	
New Cumberland	137.0'		Watch	300' Drift in Upper Approach
Pike Island	198.0'		Watch	200' Drift in Upper Approach
Hannibal	142.5'			200' Drift in Upper Approach

High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- Crest is near Hannibal L/D.
- Dry until late Friday
- Likely significant rain event Friday night and Saturday (1–2 inches with isolated 3 inch possible)
- Colder with rain changing to snow on Sunday.

Hannibal Lock & Dam

HEAVY DRIFT ISSUES:

The setting of the bulkheads at Hannibal L/D in the 600' lock chamber were completed at 1345 hours today. Hannibal's lower pool will need to drop out about 2 more feet to allow the ability for the USACE to jack and hammer the latches to release the top bulkhead. The lock should have the capability to flush drift tomorrow AM.

Partially Submerged Steel Dock

OHIO RIVER MILE 504.6 RDB:

A partially submerged steel dock has been reported at Ohio River mile 504.6, 200' off the RDB. Approximately one half a mile above the casino, at Rising Sun. It appears to have about 10' of it sticking up above the water level. Please use caution while transiting the area.

Drift Issues

OHIO RIVER LOCKS:

New Cumberland, Pike Island, and Hannibal Locks reporting significant drift in upper approaches.

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

The following Pittsburgh District locations are currently in the watch phase or the action phase of the Waterways Action Plan. Please remain vigilant and ensure all vessels and facilities are prepared for the current and forecast predictions.

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	27.0'		Watch	
Lock 4	20.0'		Watch	
Maxwell	17.0'		Watch	
Grays Landing		15.1'	Watch	
Point Marion	25.0'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	
Montgomery	66.0'		Action	
New Cumberland	66.0'		Watch	300' Drift in Upper Approach
Pike Island	82.0'		Watch	200' Drift in Upper Approach
Hannibal	68.0			200' Drift in Upper Approach

Montgomery Lock & Dam

MISCOMMUNICATIONS WITH DOWNBOUND VESSEL:

Upon arriving at work this morning the 12-8 shift was locking a vessel down and another vessel was waiting turn above the lock to lock down. A third vessel called into the lock for passage down bound. The third vessel was told that the lock was in the process of locking a vessel down, if nothing showed up below to lock up the lock would be turned back to the second vessel. Then, if nothing showed up below to lock up, the lock would be turned back for the them (the third vessel).

The second vessel waiting to lock down took it upon himself to come down on the wall without permission. The vessel had a tow of 5 loads of coal and 4 empties and there was 66 ft open on the dam. The lock crew was in the process of finishing the lockage of the first vessel and did not see the second vessel until he was already on the long wall. Therefore there were no lock personnel on the long wall to walk them in because he did not follow instructions from the lock crew. Meanwhile a fourth vessel showed up below the lock to lock up. Due to the fact that there was 66 ft open on the dam, it was decided due to safety concerns not to have the second vessel back upriver to allow lockage of the upbound vessel, who should have been locked next.

The second vessel did not follow the instructions of the lock crew and put themselves, crew, lock crew and facility in a position that was very dangerous and unsafe. This situation should never happen and I would very much appreciate it if this situation could be addressed at the next Waterways meeting.

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- Reservoir storage relatively unchanged from yesterday
- Rain begins Friday in Ohio and Friday evening in western PA
- Rain total through Sunday:

- 1 -2 inches in Beaver and Upper Allegheny River basin
- Around an inch in the Monongahela River basin
- Colder with rain changing to snow on Sunday

Ohio River Forecast Center High Water Conference Call and Webinar Conducted

NWS OHIO RIVER FORECAST CENTER FLOOD POTENTIAL BRIEFING – THE FOLLOWING IS A SUMMARY:

- Flooding continues in parts of the region
- Small tributaries are falling, but bigger rivers like Ohio River still rising in the mid/lower sections
- Another storm system is on the way Friday into early Sunday
- Widespread 1-2 inches expected this weekend. Some smaller areas of 3 inches possible
- This will create new minor to moderate flooding. A few majors can't be ruled out. It will rain on the crest of the middle Ohio River pushing the lower Ohio River higher
- Another storm due in middle of next week
- NOAA/NWS/OHRFC remains on 24-hours ops

Pike Island Lock & Dam

VESSEL MOORED ON UPPER CELLS:

A vessel was moored on Pike Island's upper cell due to clearance on the Wheeling Suspension Bridge. The vessel was not currently interfering with the transit of traffic entering or departing the lock, however giving consideration to current river levels and predictions, it would be a while before there was enough clearance for it to get under the bridges. Industry was notified of the vessels situation. Huntington District Navigation Committee Chairman was able to notify the vessel's office of correct bridge clearances and communicate the following:

- Captains and Pilots tend to read the information on the bridge vertical clearance as the bridge has a vertical clearance of 56.2'. Some fail to notice the asterisk. The 56.2' of clearance is at the red lights on the island side. It is known that directly under the green lights there is 66.0' of clearance at pool water. The green lights suspend 8.0' below low steel. The bridge is on an incline toward Wheeling which means the vertical clearance increases quickly.

The Captain was able to recalculate his vessel clearance on the bridge with his radar lowered and he was able to lock down through Pike Island and transit the Wheeling Suspension Bridge.

MARCH 04, 2011

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

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MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	26.0'		Watch	
Lock 4	18.0'		Watch	
Point Marion	22.5'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	
Montgomery	66.0'		Action	
New Cumberland	61.0'		Watch	Majority of Drift in Lower Approach
Pike Island	72.0'		Watch	No Drift Issues
Hannibal	54.0'			Running Drift Small Chamber

Allegheny River Lock & Dam 8

BACK IN OPERATION:

Allegheny Lock and Dam 8 is back in operation with an upper gauge of 14.16 and lower gauge of 16.50. However current river predictions for this weekend predict that we will be out of operation again with ~2 feet of water above the top of the wall by Monday (7MAR2010) morning.

Notice of High Water Conference Call/ Webinar:

SUNDAY MARCH 06, 2011:

Please be advised that the NWS Pittsburgh is currently forecasting the river levels to mirror the levels we experienced earlier this week. Please ensure that your crews remain vigilant while transiting and/or fleeting in regards to the forecast conditions. A conference call and Webinar will be held at 1200 on Sunday March 6, 2011.

Ohio River Forecast Center High Water Conference Call and Webinar Conducted

NWS OHIO RIVER FORECAST CENTER FLOOD POTENTIAL BRIEFING – THE FOLLOWING IS A SUMMARY:

- Flooding continues parts of Ohio, Indiana, Illinois and Kentucky
- Small tributaries are falling, but bigger rivers like Ohio River still rising in the mid/lower sections
- Another storm system today into early Sunday
- Widespread 1-2 inches expected. Some totals to near 3 inches possible.
- This will create new minor to moderate flooding and push the lower Ohio River higher
- Another storm due in middle of next week
- NOAA/NWS OHRFC remains on 24-hour ops

OHRFC Flood Potential

ALERT MESSAGE ISSUED:

The National Weather Service Ohio River Forecast Center is forecasting significant flooding across parts of the Ohio Valley. Moderate to major flooding is forecast for a portion of the region. Please monitor the latest forecasts

and visit <http://www.weather.gov> and <http://water.weather.gov/ahps> and <http://www.weather.gov/ohrfc> for the latest information.

Check out <http://www.erh.noaa.gov/mmefs> for the latest short-range ensemble predictions.

This message is designed as a general situational alert message and not for specific forecasts, watches or warnings. Please act on this message by consulting the links above or your normal means to access the detail and specific information issued by your local National Weather Service Forecast Office.

MARCH 05, 2011

Emsworth Lock & Dam

EMERGENCY CLOSURE:

Emsworth Lock & Dam was closed for a few hours due to drift caught in a filler valve disabling the valve in the open position. The USACE was able to isolate the valve until river levels receded at which time they would attempt to flush it out.

Ohio River Forecast Center High Water Conference Call and Webinar Conducted

NWS OHIO RIVER FORECAST CENTER FLOOD POTENTIAL BRIEFING – THE FOLLOWING IS A SUMMARY:

- *Flooding continues parts of Ohio, Indiana, Illinois and Kentucky*
- *Small rivers are rising again due to new rainfall*
- *Widespread 1-2 inches expected. Some totals to near 3 inches possible.*
- *Widespread minor to moderate flooding expected to continue and expand. A few points will reach around major flood stage.*
- *Another storm due in middle of next week, currently a wide range of solutions on this storm*
- *NOAA/NWS OHRFC remains on 24-hour ops*

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

The following Pittsburgh District locations are currently in the watch phase or the action phase of the Waterways Action Plan. Please remain vigilant and ensure all vessels and facilities are prepared for the current and forecast predictions.

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	16.0'		Watch	
Lock 4	18.0'		Watch	
Point Marion	22.5'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	
Montgomery	70.0'		Action	
New Cumberland	70.0'		Watch	Majority of Drift in Lower Approach
Pike Island	88.0'		Watch	No Drift Issues
Hannibal	54.0'			Running Drift Small Chamber

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- River flood warnings for Locks 3, 4, 8, and 9 on the Allegheny River
- Ohio River forecast to crest near flood stage.
- Crest will move down Ohio River from Monday morning through Tuesday morning
- Next storm Wednesday into Thursday with an inch of rain possible
- MMEFS shows crests with next system lower than current rise

Ohio River Forecast Center High Water Conference Call and Webinar Conducted

NWS OHIO RIVER FORECAST CENTER FLOOD UPDATE BRIEFING – THE FOLLOWING IS A SUMMARY:

- Flooding continues parts of Ohio, Indiana, Illinois and Kentucky. It has also developed in western Pennsylvania.
- Widespread 1-2 inches with some totals to near 3 inches did occur.
- Widespread minor to moderate flooding expected to continue and expand.
- Another storm expected middle of next week, wide range of solutions on this storm
- NOAA/NWS OHRFC remains on 24-hour ops

Allegheny River

CRESTS:

- Lock 9 crested at 1830 hours today. Upper gage 18.49'
- Lock 8 crested at 1900 hours today. Upper gage 19.08' Walls were topped.
- Lock 7 crested at 2100 hours today. Upper gage 19.54'
- Lock 6 crested at 2230 hours today. Upper gage 19.18'

MARCH 07, 2011

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

The following Pittsburgh District locations are currently in the watch phase or the action phase of the Waterways Action Plan. Please remain vigilant and ensure all vessels and facilities are prepared for the current and forecast predictions.

ALLEGHENY RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 7		18.4'	Watch	Crested

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	42.0'		Watch	Crested
Lock 4	34.0'		Watch	Crested
Grays Landing	15.7		Watch	Crested
Point Marion	30.0'		Watch	Crested

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	Crested Small Chamber Out of Operation
Dashields		22.3'	Watch	
Montgomery	100.0'		Action	Small Chamber Out of Operation
New Cumberland	134.0'		Watch	
Pike Island	198.0'		Watch	
Hannibal	119.6'			Running Drift Small Chamber

All Allegheny River Locks, Monongahela River Locks and Emsworth have crested. Walls at Locks 5 and 8 Allegheny River remain topped this morning. No other lock walls were topped. Allegheny River Locks 4 through 9 are out of operation due to high water. Allegheny River Locks 2 and CW Bill Young remain fully operational.

Allegheny River

CRESTS:

- Lock 5 crested at 0015 hours today. Upper gage 22.15' Walls were topped.
- Lock 4 crested at 0600 hours today. Upper gage 20.5'
- CW Bill Young Lock remains fully operational crested at 0100 hours today. Upper gage 17.1'
- Lock 2 remains fully operational crested at 0400 hours today. Upper gage 17.8'

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- Allegheny River flood warnings cancelled
 - Lock 4 Natrona crested at 20.6'
 - Lock 3 C.W. Bill Young crested at 17.2'
- Ohio River flood warning cancelled
 - Ohio River at the Point in Pittsburgh crested at 24.2'
- Crest currently between Montgomery and New Cumberland and moving down Ohio River

- *Next storm Wednesday into Thursday with an inch of rain possible*
- *MMEFS shows crests with next system lower than current rise*

Ohio River Forecast Center High Water Conference Call and Webinar Conducted

NWS OHIO RIVER FORECAST CENTER FLOOD UPDATE BRIEFING – THE FOLLOWING IS A SUMMARY:

- *Flooding continues parts of Ohio, Indiana, Illinois, Kentucky, New York and Pennsylvania. It has ended in Virginia after developing there.*
- *Another double barrel storm system for the middle of the week*
- *Great uncertainty with two bands of rain possible*
- *Lower Ohio River expected to go higher*
- *NOAA/NWS OHRFC beginning third week of 24-hour operations and flooding expected to linger*

Allegheny River Lock & Dam 4

BACK IN OPERATION:

Allegheny Lock and Dam 4 is back in operation at 1900 today with an upper gauge of 18.0'.

Allegheny River Lock & Dam 6

BACK IN OPERATION:

Allegheny Lock and Dam 6 is back in operation at 0700 today with an upper gauge of 16.3'.

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

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ALLEGHENY RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 7		16.3'	Watch	Out of Operation

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	30.0'		Watch	
Lock 4	18.0'		Watch	
Point Marion	23.8'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	Small Chamber Out of Operation
Montgomery	85.0'		Action	Small Chamber Out of Operation
New Cumberland	100.0'		Watch	
Pike Island	162.0'		Watch	
Hannibal	119.6'			Running Drift Small Chamber

Allegheny River Lock 2, CW Bill Young, Lock 4, Lock 6, Lock 7 are operational.

Allegheny River Locks 5, 8, and 9 are out of operation due to high water.

Allegheny River

BACK IN OPERATIONS:

- *Lock 4 went back in operation at 2200hrs on 3/7/2011. Upper gage 17.5*
- *Lock 5 remains out of operation due to high water. Upper gage is 18.90 at 0700, today.*
- *Lock 6 went back in operation at 0700hrs on 3/8/2011. Upper gage 16.3*
- *Lock 7 went back in operation at 0700hrs on 3/3/2011. Upper gage 16.26.*
- *Lock 8 remains out of operation due to high water. Upper gage is 16.25 at 0700, today.*
- *Locks 2 and CW Bill Young remains fully operational.*

Greenup Lock & Dam

NAVIGATION CONCERN

Please notify all vessels that may be transiting Greenup L&D Southbound that they are going to encounter a reaction which will force the head of their tow off the upper guide wall. The ACOE believes that they have a fouled curtain which is creating an eddy in the upper approach. It was explained to me that when a southbound tow is around the 200' marker the eddy will shove the head of the tow toward the center wall. Ensure all vessels are alerted to the possibility of this reaction which will result in the head of the tow leaving the wall.

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- Rain Wednesday morning through Thursday afternoon
- 1.0 to 1.5 inches possible in Mon basin
- Total amount will depend on track of second storm developing in south east US
- MMEFS shows crest have increased over past few runs

Ohio River Forecast Center High Water Conference Call and Webinar Conducted

NWS OHIO RIVER FORECAST CENTER FLOOD UPDATE BRIEFING – THE FOLLOWING IS A SUMMARY:

- Flooding continues parts of Ohio, Indiana, Illinois, Kentucky, and New York.
- Widespread 1-2 inch event with some 2-3+ inch bands especially in eastern/south basin. Least northwest.
- This will create new minor to moderate flooding and push the Ohio River high. A few major floods possible?
- Storm middle of next week looks weaker so we may see some relaxation in flooding most areas next week.
- NOAA/NWS/OHRFC remains on 24 hour ops

Pittsburgh District Continued High Water Event

MAINTAIN VIGILANCE:

A new storm front is approaching the Pittsburgh District Wednesday into Thursday. Basin average rainfall is forecast to range from 1.00 to 2.00 inches across most of northern West Virginia and the southern mountains of western Pennsylvania. Across the remainder of western Pennsylvania and eastern Ohio, basin average rainfall is forecast to range from 0.75 to 1.5 inches.

Rivers are forecast to remain high with significant rises again expected along the Allegheny, Upper Ohio, and Monongahela River Basins. All area reservoirs will continue to release water until the next front arrives. The Monongahela Reservoirs currently have a significant amount of storage capacity and the forecast river gauges reflect the storage capability. In the event that the storm shifts north, the Allegheny Reservoirs have limited storage capacity at this time which may create the possibility of an uncontrolled release due to the reservoir exceeding its capacity.

The Ohio River is expected to crest and hold steady only to rise again with the incoming storm system.

Please see attached slides.

Current key predictions are as follows:

Ohio River:

Pittsburgh	24.5'	Friday 3/11
Pike Island	36.1'	Friday 3/11

Allegheny River:

Freeport	17.1'	Friday 3/11
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Monongahela River:

Grays Landing	19.1'	Thursday 3/10
Charleroi	27.7'	Friday 3/11
Elizabeth	20.0'	Friday 3/11

Please ensure that all crews are aware of the incoming storm system/high water event. There have been several incidents in the Pittsburgh District in relation to high water/high flows on the area rivers. All crews need to remain vigilant through this weather pattern that is the source of this prolonged high water event.

Cumberland Mine - Monongahela River Mile 81

BROADCAST NOTICE TO MARINERS ISSUED

Beginning March 15, 2011 through April 06, 2011 Cumberland Mine Alicia Harbor Facility, Mile 81 LDB Monongahela River will be replacing electrical wires on the cells. During this time there will be no navigation lights on the cells. Please exercise caution when transiting the area.

Notice To All Traffic

OHIO RIVER MILE 331

It has been reported that the M/V JoAnn McGinnis has sunk in the vicinity of mm 331 Ohio River. The vessel is reported to be marked with a flashing light. All crew members have been located. Rescue equipment has been mobilized and will be on scene shortly. Of course please have your vessels transit the area with caution.

UPDATE: Here is the latest on the earlier reported tug. The vessel has been located directly under the Combine Terminals fleet at mm 332, approximately 50' off the left descending shore and is marked with a flashing light. An assist tug is on scene. Again transit the area with caution.

Notice to All Traffic

OHIO RIVER MILE 331 - UPDATE

The M/V JOANN McGINNIS sits approximately 100 feet off the left descending bank approximately 1/4 mile downriver of McGinnis at Ohio River MM 331, vessel is marked and lit. The M/V BRUCE D is the on-scene vessel, please exercise caution in this area. If any vessels need to report new information, this can be done thru the Sector Ohio Valley command center or thru our duty officer at 304-563-9084. Status reports will be provided thru MSU Huntington as we move closer to salvage operations

Greenup Lock & Dam

NAVIGATION CONCERN -UPDATE

Notice to Navigation Interest 11-13 issued pertaining to the reaction at Greenup L&D. Below is an email sent which may provide additional information

For those of you who will be transiting Greenup L&D southbound I have been informed by the ACOE that there is a reaction around the 200' marker on the upper guide wall. The ACOE believes that they have a curtain fouled which is creating an eddy in the upper fore bay. I have been told what you can look for is that when the head of your tow is around 200' above the center bull nose the reaction will force the head of your tow toward the center wall. There has already been 4 near misses by vessels making their approach and were not aware of this reaction. So be alert. To extend you lookout, it would not hurt to ask about the eddy when you call in for lock turn.

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

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MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	28.0'		Watch	
Lock 4	18.0'		Watch	
Point Marion	23.0'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	Small Chamber Out of Operation
Montgomery	70.0'		Action	Small Chamber Out of Operation
New Cumberland	69.0'		Watch	
Pike Island	82.0'		Watch	

Ohio River Forecast Center High Water Conference Call and Webinar Conducted

NWS OHIO RIVER FORECAST CENTER FLOOD UPDATE BRIEFING – THE FOLLOWING IS A SUMMARY:

- Flooding expected to be minor to moderate in all state OHRFC serves except Tennessee
- Complex storm system is challenging us in terms of future rainfall amounts, placement and change-over to snow
- Good news is forecasts today are not much different than yesterday except a faster rise on the lower Ohio
- Good news is storms in next 1-2 weeks look weaker than the series we have been going through

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- *Rain through Thursday....changing to snow at night*
- *1.0 – 1.4 inches of rain basin wide*
- *Corps will be cutting releases significantly today*
- *Winter Storm watch possible for Thursday night and Friday*

OHRFC Flood Potential

ALERT MESSAGE ISSUED:

The National Weather Service Ohio River Forecast Center is forecasting significant flooding across parts of the Ohio Valley. Moderate to major flooding is forecast for a portion of the region. Please monitor the latest forecasts and visit <http://www.weather.gov> and <http://water.weather.gov/ahps> and <http://www.weather.gov/ohrfc> for the latest information.

Check out <http://www.erh.noaa.gov/mmefs> for the latest short-range ensemble predictions.

This message is designed as a general situational alert message and not for specific forecasts, watches or warnings. Please act on this message by consulting the links above or your normal means to access the detail and specific information issued by your local National Weather Service Forecast Office.

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

The following Pittsburgh District locations are currently in the watch phase or the action phase of the Waterways Action Plan. Please remain vigilant and ensure all vessels and facilities are prepared for the current and forecast predictions.

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	38.0'		Watch	
Lock 4	32.0'		Watch	
Maxwell	22.0'		Watch	
Gray's Landing		15.7'	Watch	
Point Marion	33.0'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	Small Chamber Out of Operation
Montgomery	79.0'		Action	Small Chamber Out of Operation
New Cumberland	91.0'		Watch	
Pike Island	102.0'		Watch	
Hannibal	96.0'			Bulkheads in place running drift

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- Another round of rain today with 0.5 – 0.75 inches possible before changing to snow
- Flooding forecast from Pittsburgh to Hannibal on the Ohio River
- Flooding forecast from Charleroi to Braddock on the Mon River
- Winter Storm Watch possible for tonight and Friday

Forecast precipitation for the next 48 hours of basin average rainfall and/or liquid equivalent of snow is forecast to range from three-quarters to one and one-half inches. Significant rises are expected on district rivers. Numerous locations along all district rivers are expected to reach alert stages with some location forecast to possible reach or exceed flood stage. The key is when the rain changes to snow.

The current upper Ohio River forecast predictions are based on the Allegheny River and the Monongahela River cresting concurrently.

Please utilize the following link to access the National Weather Service River Statement:

<http://www.crh.noaa.gov/product.php?site=NWS&product=RVS&issuedby=PBZ>

If the current forecast holds true the following locks in the Pittsburgh District will suspend navigation:

ALLEGHENY RIVER

Lock	Crest Prediction	Day	Date	Navigation Suspended
Lock 4	19.1'	Saturday Morning	12Mar11	18.0'
Lock 5	20.3'	Friday Afternoon	11Mar11	16.0'
Lock 6	18.2'	Friday Afternoon	11Mar11	17.0'

Lock 7	18.0'	Friday Afternoon	11Mar11	17.0'
Lock 8	Remains out of	operation		
Lock 9	Remains out of	operation		

MONONGAHELA RIVER

Lock	Crest Prediction	Day	Date	Navigation Suspended
Lock 4	29.0'	Friday Evening	11Mar11	29.0'
Lock 3	21.1'	Friday Evening	11Mar11	17.5'
Braddock	22.0'	Friday Evening	11Mar11	19.0'

OHIO RIVER

Lock	Crest Prediction	Day	Date	Navigation Suspended
Emsworth	27.5'90.0'	Friday Evening	11Mar11	22.0'
Dashields	25.4'	Saturday Morning	12Mar11	23.0'
New Cumberland	38.2'	Saturday Morning	12Mar11	37.0'
Pike Island	41.6'	Saturday Afternoon	12Mar11	38.0'

District rivers are expected to remain at high flows for the next 10 to 14 days followings this event to allow the Army Corps of Engineers to release water from the reservoirs in order to maintain storage capacity for future storm systems.

Ohio River Forecast Center High Water Conference Call and Webinar Conducted

NWS OHIO RIVER FORECAST CENTER FLOOD UPDATE BRIEFING – THE FOLLOWING IS A SUMMARY:

- *Flooding continues in the regions except in middle Tennessee and western Virginia. Ohio river is in flood or will be in many sections.*
- *Complex storm has been a challenge with placement and amounts of rainfall*
- *Forecasts are based on observed rainfall and rainfall still ongoing in upper Ohio Valley*
- *Good news is the break we talked about yesterday looks to happen with only minor amounts of future rainfall from Friday to the middle or end of next week*
- *Longer-range indications are the storm track may be shifting back into Missouri and upper Mississippi River basins.*

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

The following Pittsburgh District locations are currently in the watch phase or the action phase of the Waterways Action Plan. Please remain vigilant and ensure all vessels and facilities are prepared for the current and forecast predictions.

ALLEGHENY RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 9 – Rising		18.1'		Navigation Suspend
Lock 8 – Rising		18.1'		Navigation Suspend
Lock 7 – Rising		18.0'	Watch	Navigation Suspend Rising
Lock 6 - Rising		18.1'		Navigation Suspend
Lock 5 – Rising		19.1'		Navigation Suspend
Lock 4 – Rising		LWR 22.6'		Navigation Suspend
C.W. Bill Young –Rising		16.3'		
Lock 2		16.9'		

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	42.0'	14.5 Rising	Watch	
Lock 3		17.5' Rising		Navigation Suspend
Lock 4	80.0'	LWR 24.0' Rising	Action	
Maxwell		17.9' Rising	Watch	Navigation Suspend
Point Marion	36.0'	LWR 21.1' Rising	Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'	LWR 25.7 Rising	Action	Small Chamber Out of Operation
Dashiels		22.3'	Watch	Navigation Suspend
Montgomery	100.0'	Rising	Action	Small Chamber Out of Operation
New Cumberland	143.0'	Rising	Watch	Small Chamber Out of Operation
Pike Island	198.0'	Rising	Watch	Small Chamber Out of Operation
Hannibal	142.4	Rising		Running Drift Small Chamber

Greenup Lock & Dam

NAVIGATION HAZARD

Be advised - we have received a report of a 30 ft steel "dock-like" structure located along the wall at Greenup Lock and Dam, we are in touch with the Army Corp and are sending a team on site to survey. If any limitations are placed on navigation or locking we will advise immediately.

Follow up - team on scene reports the structure is approx 150 ft out from the left descending bank and just up from the Auxiliary chamber at Greenup.

Ohio River Forecast Center High Water Conference Call and Webinar Conducted

NWS OHIO RIVER FORECAST CENTER FLOOD UPDATE BRIEFING – THE FOLLOWING IS A SUMMARY:

- *Rainfall has ended across the region*
- *Generally minor to moderate flooding affecting parts of Pennsylvania, West Virginia, Ohio, Kentucky, Indiana and southeast Illinois.*
- *Flooding will diminish next week except in southern Indiana, southeast Illinois, western Kentucky and along the lower half of the Ohio River*
- *A few weak storms will affect the area the next week but only limited impacts expected*
- *NOAA/NWS/OHRFC remains on 24 hour ops*

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- *No flooding on Monongahela River*
- *Minor to moderate flooding forecast from Pittsburgh to Hannibal on the Ohio River*
- *Minor flooding forecast on the Allegheny River at CW Bill Young L/D*
- *No significant rain for the next 5 days*

Pittsburgh District River High Water Event

VESSEL STAGING POSITIONS :

Vessel Staging Positions for fleet watch in the Pittsburgh District to include location, horsepower, and contact information.

VESSEL POSITIONS

PITTSBURGH DISTRICT HIGH WATER EVENT 03/11/11

Boat	Horsepower	Phone	Position	Mile Marker
M/V Reddy K.	730	Channel 13/16	Fort Martin	Mon 92.0
M/V Rozance	1550	(412) 996-0015	Cumberland Mine	Mon 81.3
M/V Capt. Chad	1080	(412) 389-5155	Cumberland Mine	Mon 81.3
M/V Mongah	1200	(412) 389-5156	Robena	Mon 80.4
M/V Hatfield Ferry		Channel 13/16	Hatfield	Mon 78.5
M/V Katy I	850	(412) 818-4706	Alicia	Mon 58.8
M/ V Mathies	1710	(412) 996-0017	Alicia	Mon 58.8
M/V Missouri	400	Channel 13/16	Dunlevy	Mon 44.3
M/V Busy Bee	200	Channel 13/16	Dunlevy	Mon 44.3
M/V Myra H	1550	(724) 462-0529	Dunlevy	Mon 44.0
M/V Wes McDonald	1200	(412) 389-5194	West Elizabeth	Mon 23.0
M/V Arkwright	1710	(412) 996-0014	USX Clairton	Mon 21.0
M/V Winnie C	2600	(724) 747-6403	Tonomo	Mon 18.0
M/V Cory	400	Channel 13/16	Tonomo	Mon 18.5
M/V Suzie	200	Channel 13/16	Tonomo	Mon 18.5
M/V Kimberly Johnson	1650	(304) 281-8134	Dravosburg	Mon 17.0
M/V Pennsylvania	5600	(304) 561-8197	Dravosburg	Mon 17.0
M/V Tom G.	1000	(412) 559-4324	Dravosburg	Mon 17.0
M/V Principio	800	(412) 589-6022	Braddock	Mon 10.0
M/V Tina Lou		(412) 400-3679	Braddock	Mon 10.0
M/V Janet Marie	1200	(412) 906-1049	Pittsburgh Landing	OH 0.0
M/V D. L. Johnson	1500	(412) 874-7011	Shenango	OH 3.0
M/V Carl Johnson	1500	(412) 302-6479	Jacks Run	OH 4.0
M/V Carrie Mays	1800	(412) 807-8079	Jacks Run	OH 4.0
M/V Sam Fleming	4300	(270) 933-0942	PPC	OH 10.2
M/V Jackson Randolph	6140	(270) 933-0851	South Heights	OH 16.0
M/V Andrea S	800	(412) 812-2441	Colona	OH 24.0
M/V Aliquippa	1800	(412) 389-5154	Kobuta	OH 29.0
M/V Three Rivers	800	(412) 812-6936	Georgetown	OH 39.0
M/V Tensas	2400	(724) 480-6269	Georgetown	OH 39.0
M/V Connie K.	2200	(724) 415-7177	Georgetown	OH 39.0
M/V Georgetown	2400	(412) 480-0971	Georgetown	OH 39.0
M/V Brenda Sue	1800	(412) 807-9315	Georgetown	OH 39.0

M/V Darrell L	3600	(724) 415-9406	Georgetown	OH 39.0
M/V Laura S	1200	(412) 812-6326	Georgetown	OH 39.0
M/V Bonnie C	1000	(412) 215-7929	Georgetown	OH 39.0
M/V W.J. Simpson	900	(412) 389-2689	Georgetown	OH 39.0
M/V Okan	600	(412) 335-0024	Georgetown	OH 39.0
M/V Vernon C. Smith	4200	(412) 721-4917	DTC	OH 47.5
M/V Edison Queen		(740) 632-8520	Sammis	OH 54.0
M/V Amber Brittany	3000	(412) 302-4935	Wellsburg	OH 73.0
M/V Mary Rose	1500	(412) 302-6481	Wellsburg	OH 73.0
M/V Pioneer	900	(412) 303-1021	Wellsburg	OH 74.8
M/V Vulcan	1800	(412) 389-5195	Shoemaker	OH 94.0
M/V Tom Hoffman	3000	(412) 996-0018	Shoemaker	OH 94.0
M/V Timmy	850	(412) 812-6936	Dille Bottom	OH 104.0
M/V Miss Doris	4200	(724) 678-9175	Dille Bottom	OH 104.0
M/V Champion Coal	3000	(412) 389-5193	McElroy	OH 110.0
M/V Elizabeth D	2180	(412) 906-1048	McElroy	OH 110.0
M/V CJ Queenen	4500	(304) 479-0664	Pleasants Power	OH 161.0
M/V Michael Grainger	5000	(615) 305-1904	Parkersburg	OH 182.0
M/V William E. Porter	4200	(270) 933-0946	Ravenswood	OH 227.0
M/V Mary Ellen Jones	5600	(304) 531-4069	Ravenswood	OH 227.0
M/V Joe T.	1550	(412) 974-1780	Pt. Pleasant	OH 267.0
M/V Bill Stile	2200	(304) 674-5399	Pt. Pleasant	OH 267.0
M/V Mark S.	3600	(304) 674-3610	Pt. Pleasant	OH 267.0
M/V D.A. Grimm	2600	(304) 479-0902	Pt. Pleasant	OH 267.0

Pittsburgh District

HIGH WATER UPDATE:

Allegheny River has crested and is falling:

Lock 7 remains in the watch phase with an upper gauge reading of 19.0'. Navigation remains suspended for Lock 4, 5, 6, 7, 8, and 9. Water remains over the walls at 5 & 8.

Monongahela River has crested and is falling:

Point Marion remains in the watch phase with a 30.0' gate opening

Grays Landing remains in the watch phase with a 16.2' upper gauge - back in operation

Maxwell remains in the watch phase with a 28.0' gate opening

Lock 4 remains in the action phase with a 50.0' gate opening

Lock 3 back in operation

Braddock remains in the watch phase with an upper gauge of 15.8' and a gate opening of 42.0'

Ohio River has crested to New Cumberland:

Emsworth remains in the action phase with a 90.0' gate opening - small chamber out of operation

Dashields remains in the action phase with an upper gauge of 24.2' - Navigation Suspended

Montgomery remains in the action phase with a 100.0' gate opening - small chamber out of operation

New Cumberland remains in the watch phase with a 143.0' gate opening - small chamber out of operation

Pike Island remains in the watch phase with a 198.0' gate opening - small chamber out of operation

Hannibal small chamber out of operation

Robert C. Byrd Lock & Dam - Ohio River Mile 279.2

NAVIGATION SUSPENDED

R C Byrd mm 279.2 has ceased locking due to river levels and drift.

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- *At 10 AM crest on the Ohio River was near Steubenville*
- *Ohio River in Flood in the Pittsburgh District from New Cumberland to Powhatan Point*
- *Minimal precipitation for remainder of the weekend.*
- *One-half inch of rain possible Wednesday.*

Ohio River Forecast Center High Water Conference Call and Webinar Conducted

NWS OHIO RIVER FORECAST CENTER FLOOD POTENTIAL BRIEFING – THE FOLLOWING IS A SUMMARY:

- *Most rivers have crested or are cresting except Ohio River*
- *Generally minor to moderate flooding affecting parts of western Pennsylvania, southwest New York, West Virginia, Ohio, Kentucky, Indiana and southeast Illinois*
- *Flooding will diminish next week except in lower Ohio Valley*
- *A few weak storms will affect the area into next week with only some minor rises expected mainly south*
- *NOAA/NWS/OHRFC remains on 24-hour ops*

MARCH 13, 2011

Robert C. Byrd Lock & Dam - Ohio River Mile 279.2

BACK IN SERVICE

Good news the main chamber at Byrd is back in service. Better news is the river has been teetering around 51.1' for the past couple of hours.

Army Corps of Engineer Update

LOCK & DAM STATUS

We continue to drop slowly, throughout the District. The Mon is operable with some slight drift issues.

The Allegheny is still pretty high with only Locks #2 and CW in operation.

Locks #4 through #9 are still out. Locks #5 and #8 still have water on the walls.

The Ohio is falling slowly with all large locks operable except Dashields, where clean up continues. They estimate being back in operation by end of business today. All small locks are still out.

Heavy drift will be the main obstacle to overcome. Upstream wind and low head differential will continue to cause issues.

Ohio River Forecast Center

NWS OHIO RIVER FORECAST CENTER FLOOD UPDATE:

Everything is behaving as discussed yesterday. The Ohio River is cresting slightly faster in the upper Ohio River. The crest is already past Huntington, WV heading toward Cincinnati in the next day in the middle Ohio River. As the crest heads past Louisville early this week it will slow in the lower Ohio River to a broad crest about mid-week.

Rainfall is forecast the next 48-hours across mainly areas south of the Ohio River and especially focused on the Cumberland and Tennessee River basins as discussed yesterday. Rainfall amounts of 0.50 to 1.25 inches with a few spots closer to 1.50 inches can be expected there. The OHRFC QPF is about 0.25 inches lighter than HPC in the Cumberland basin. This will create news rises in the Cumberland and Tennessee River basins and possibly in the Green River basin. In the Cumberland basins rises will be similar to past rises so impacts to navigation will likely continue there.

See national 2-day rainfall forecast here: http://www.hpc.ncep.noaa.gov/qpf/d12_fill.gif

See OHRFC 2-day rainfall forecast here: <http://www.erh.noaa.gov/ohrfc/Forecast.php>

Looking ahead, after rains early this week and some lighter activity during the week the patten looks to get more active next week with at least two storms. This will likely increase the threat for renewed flooding across the region next week.

A good summary of past, current and future conditions, including rainfall outlooks, flood potential and rivers in flood can be found here:

<http://www.erh.noaa.gov/er/ohrfc/hmd.shtml>

Dashields Lock & Dam

BACK IN OPERATION

Dashields Large chamber went back into operation at 1500. No traffic is around yet.

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

The following Pittsburgh District locations are currently in the watch phase or the action phase of the Waterways Action Plan. Pittsburgh District Rivers continue to run high and at high flows due to releases from the reservoirs.

Please remain vigilant and ensure all vessels and facilities are prepared for the current and forecast predictions.

ALLEGHENY RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 7 – Rising		16.8'	Watch	Navigation Suspend Rising

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	42.0'		Watch	
Lock 4	24.0'		Watch	
Maxwell	18.0'		Watch	
Grays Landing		15.3'	Watch	
Point Marion	28.0'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	Small Chamber Out of Operation
Dashields		20.6'	Watch	Small Chamber & Tow Haulage Equipment Out of Operation
Montgomery	94.0'		Action	Small Chamber Out of Operation
New Cumberland	111.0'		Watch	Small Chamber Out of Operation
Pike Island	174.0'		Watch	Small Chamber Out of Operation
Hannibal	119.6.4			Running Drift Small Chamber

MARCH 14, 2011

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- River flows remain high on district rivers
 - Acmetonia Lock 3: Flow 106.1 KCFS Velocity 3.6 MPH
 - Braddock Lock 2: Flow 48.7 KCFS Velocity 2.2 MPH
 - Montgomery L/D: Flow 183.1 KCFS Velocity 3.6 MPH
- Ohio River will remain high through the week
 - Pittsburgh forecast to remain above 18.0 feet through Saturday
 - Grays Landing falls below 15.0 feet late Tuesday afternoon
 - Charleroi falls below 15.0 feet Saturday night
- Next storm Tuesday into Wednesday with 0.30 inches of rain possible
- MMEFS shows only minor rises with next system

Ohio River Forecast Center

NWS OHIO RIVER FORECAST CENTER FLOOD UPDATE:

The crest along the Ohio River is now downstream of Cincinnati and the crest will be broadening out and slowing down as additional rainfall in the lower Ohio and Cumberland Valley moves across the area.

Observed Rainfall:

Rainfall was generally less than 0.50 inches in the lower Ohio and Cumberland Valley through 7 am EDT this morning.

<http://www.erh.noaa.gov/ohrfc/HAS/images/latest12z24hrS3XMRG.jpeg>

Forecast Rainfall:

Rainfall is forecast to be 0.50 to 1.25 inches with a few places reaching 1.50 inches in the lower Ohio Valley into the Cumberland Valley. This will include southern Illinois, southern Indiana, Kentucky and Tennessee. Elsewhere, rainfall amounts are forecast from this storm to be under 0.50 inches through early Wednesday. This is reflected in today's river forecasts.

Some additional rises on smaller tributaries can be expected in the region listed above. In addition, the additional rain in the lower Ohio Valley will slow the rate of fall of the Ohio River in the mid and lower section in the days ahead.

OHRFC 48-hour Rainfall

<http://www.erh.noaa.gov/ohrfc/HAS/images/latestHAS48hrQPF.jpeg>

Forecast River Stages:

<http://www.erh.noaa.gov/ohrfc/OHRFCfcst.shtml>

Looking ahead, after this storm exits the region, warmer and drier weather will move into much of the area later this week. Some rain may return especially to the upper Ohio Valley this weekend with a weak front.

The next significant storm to affect the region will be early to the middle portions of next week but the heaviest rain may fall in the Missouri and upper Mississippi River systems. We will continue to monitor this storm.

<http://www.cpc.ncep.noaa.gov/products/predictions/610day/610prcp.new.gif>

Another storm could follow for the weekend of March 25-27:

http://www.nco.ncep.noaa.gov/pmb/nwprod/analysis/namer/gfs/12/images/gfs_p60_324m.gif

A good summary of past, current and future conditions, including rainfall outlooks, flood potential and rivers in flood can be found here:

<http://www.erh.noaa.gov/ohrfc/hmd.shtml>

Everything is behaving as discussed yesterday. The Ohio River is cresting slightly faster in the upper Ohio River. The crest is already past Huntington, WV heading toward Cincinnati in the next day in the middle Ohio River. As the crest heads past Louisville early this week it will slow in the lower Ohio River to a broad crest about mid-week.

Rainfall is forecast the next 48-hours across mainly areas south of the Ohio River and especially focused on the Cumberland and Tennessee River basins as discussed yesterday. Rainfall amounts of 0.50 to 1.25 inches with a few spots closer to 1.50 inches can be expected there. The OHRFC QPF is about 0.25 inches lighter than HPC in the Cumberland basin. This will create new rises in the Cumberland and Tennessee River basins and possibly in the Green River basin. In the Cumberland basins rises will be similar to past rises so impacts to navigation will likely continue there.

See national 2-day rainfall forecast here: http://www.hpc.ncep.noaa.gov/qpf/d12_fill.gif

See OHRFC 2-day rainfall forecast here: <http://www.erh.noaa.gov/ohrfc/Forecast.php>

Looking ahead, after rains early this week and some lighter activity during the week the pattern looks to get more active next week with at least two storms. This will likely increase the threat for renewed flooding across the region next week.

A good summary of past, current and future conditions, including rainfall outlooks, flood potential and rivers in flood can be found here:

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Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

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ALLEGHENY RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 7 – Rising		16.3'	Watch	Navigation Suspend Rising

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	34.0'		Watch	
Lock 4	18.5'		Watch	
Point Marion	25.0'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	Small Chamber Out of Operation
Dashields		20.2'	Watch	Small Chamber & Tow Haulage Equipment Out of Operation
Montgomery	88.0'		Action	Small Chamber Out of Operation
New Cumberland	100.0'		Watch	Small Chamber Out of Operation
Pike Island	130.0'		Watch	Small Chamber Out of Operation

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- Total rainfall from this weather system 0.25 to 0.50 inches
- River flows decreasing, but remain high on district rivers
 - Acmetonia Lock 3: Flow 9.89 KCFS Velocity 3.4 MPH
 - Braddock Lock 2: Flow 46.9 KCFS Velocity 2.2MPH
 - Montgomery L/D: Flow 167.8 KCFS Velocity 3.4 MPH
- Ohio River and Lower Allegheny Rivers will remain high through the week.
 - Pittsburgh forecast to remain above 18.0 feet through Sunday
 - Grays Landing will remain below 15.0 feet
 - Charleroi falls below 15.0 feet late Saturday night
- Next Significant weather maker is storm next Tuesday and Wednesday
 - 1.00 inches or more of rainfall possible

Pittsburgh District High Water Conditions Summary

HIGH WATER CONDITIONS:

Several Allegheny River and Beaver River reservoirs remain above 50% capacity. Berlin (effects the Beaver River) remains at 96% capacity. The Army Corps of Engineers plans to continue maximum releases at these reservoirs in

anticipation of the next significant (one inch or more of rainfall possible) storm front that is approaching Tuesday and Wednesday of next week.

Pike Island is not predicted to limit their gate opening down to 100 feet until the lower gauge at Pike Island reaches 26.0 feet. The lower gauge is currently at 29.0', expected to fall to 28.0' tomorrow and raise again slightly to 28.6 to 29.0 feet Thursday and Friday due to inflows from the current rain event taking place in the Ohio River Valley. Pike Islands lower gauge is not predicted to reach 26.0 feet until sometime early next week.

Ohio River Forecast Center

NWS OHIO RIVER FORECAST CENTER FLOOD UPDATE:

The crest along the Ohio River is now downstream of Louisville and will reach Golconda/Smithland area by sometime Thursday. The crest will be slightly higher due to the heavy rains falling on the crest in the lower Ohio River.

Upstream, the Ohio River is falling out faster than earlier forecast. I made some changes today when running the Ohio River to reflect this.

Observed Rainfall:

Rainfall was 0.5 to 1.5 inches in the lower Ohio River Valley. The rain fell further north than forecast the last 1-2 days. It was forecast in Kentucky and Tennessee.

Forecast Rainfall:

Rainfall is forecast to be 0.75 inches or less across the region. Only minor impacts to upstream rivers are expected.

Looking ahead, some minor weather systems will bring some rains especially to the upper Ohio River Valley through early in the weekend but should only have minor impacts on most rivers.

A more substantial storm system could affect the region early to mid portions of next week but a lot of uncertainty gives us low confidence in the rainfall outlook then. If heavier rain occurs it would likely fall across Illinois, Indiana, Ohio, western Pennsylvania and southwest New York.

Attached is a heavy rain risk map showing the chances of 2-4 inches of rain in the next 2 weeks. Clearly our weather models still show some risk going forward.

US Army Corps of Engineers

MAINTENANCE SCHEDULE REVISION

The Repair Schedule has not changed for the remainder of the year. However, unless we receive supplemental funding the dewatering at Gray's Landing and the small dam gate job at Morgantown will probably not get done. All jobs scheduled from March through December will go off as planned with those two exceptions and they will go if we get the funds.

Pittsburgh District River Levels & Gate Openings Communicated

WATERWAYS ACTION PLAN STATUS BOARD - OVERVIEW:

The following Pittsburgh District locations are currently in the watch phase or the action phase of the Waterways Action Plan. District area rivers continue to fall very slowly and continue to maintain high velocity due to releases from area reservoirs.

MONONGAHELA RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Lock 2 Braddock	30.0'		Watch	
Lock 4	12.0'		Watch	
Point Marion	21.0'		Watch	

OHIO RIVER

Lock	Gate Opening	Upper Gauge	WAP Phase	Notes
Emsworth	90.0'		Action	Small Chamber Out of Operation
Montgomery	79.0'		Action	Small Chamber Out of Operation
New Cumberland	85.0'		Watch	Small Chamber Out of Operation
Pike Island	112.0'		Watch	Small Chamber Out of Operation

Broadcast Notice to Mariners

OHIO RIVER MILE 86.1

The navigation aid in the vicinity of Sisters Island Downbound, mi 86.1 OHR, (llnr 23525) is reported destroyed. All mariners are requested to use caution while transiting this area.

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- Next weather system on Friday only bringing 0.10 to 0.60 inches of rainfall
- River flows decreasing, but remain high on district rivers
 - Acmetonia Lock 3: Flow 95.4 KCFS Velocity 3.3 MPH
 - Braddock Lock 2: Flow 36.6 KCFS Velocity 1.9 MPH
 - Montgomery L/D: Flow 144.7 KCFS Velocity 3.1 MPH
- Ohio River and Lower Allegheny Rivers will remain high through the week.
 - Pittsburgh forecast to remain above 18.0 feet through Sunday
 - Grays Landing forecast to generally remain below 14.0 feet
 - Charleroi fluctuate near 15.0 feet Friday through Monday
- Next significant weather maker is storm next Tuesday and Wednesday
 - 0.75 to 1.25 inch or more of rainfall possible...preliminary model solutions seek to place bulk of rainfall across Allegheny River Basin

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- *Next weather system on Friday only bringing a trace to 0.25 inches of rainfall*
- *River flows decreasing, but remain high on district rivers*
 - *Acmetonia Lock 3: Flow 93.2 KCFS Velocity 3.2 MPH*
 - *Braddock Lock 2: Flow 30.5 KCFS Velocity 1.7 MPH*
 - *Montgomery L/D: Flow 135.0 KCFS Velocity 2.9 MPH*
- *Ohio River and Lower Allegheny Rivers will remain high through the week.*
 - *Pittsburgh forecast to fall below 18.0 feet Saturday morning*
 - *Grays Landing forecast to generally remain below 14.0 feet*
 - *Charleroi will fall below 15.0 feet late Saturday night*
- *Next significant weather maker is storm next Tuesday and Wednesday*
 - *1.50 to 2.00 inch or more of rainfall possible...preliminary model solutions seek to place bulk of rainfall across Allegheny, Lower Monongahela and Muskingum River basins - models disagree over placement of heavy rain axis*

MARCH 18, 2011

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- *Weather system on Friday only bringing minor rainfall*
- *River flows decreasing, but remain high on district rivers*
 - *Acmetonia Lock 3: Flow 86.3 KCFS Velocity 3.1 MPH*
 - *Braddock Lock 2: Flow 26.0 KCFS Velocity 1.5 MPH*
 - *Montgomery L/D: Flow 121.2 KCFS Velocity 2.7 MPH*
- *Ohio River and Lower Allegheny Rivers will remain high through the week.*
 - *Pittsburgh forecast to fall below 18.0 feet Saturday morning*
 - *Grays Landing forecast to generally remain below 14.0 feet*
 - *Charleroi will fall below 15.0 feet late Saturday night*
- *Significant storm possible next Monday night through Wednesday night*
 - *Preliminary model solutions place 1.00 to 2.00 + inch rainfall across Allegheny and Beaver Rivers*
 - *Broad area of 1.00+ inch or more remains across the Monongahela, Youghiogheny and Cheat River Basins*
 - *Models are still in disagreement over placement of heavy rain axis*

Allegheny River Lock 4

BACK IN OPERATION

The river is falling out and the predictions are showing lock 4 falling below 17.0. The lock went back into operation as of 9:45am.

Allegheny River

LOCK PRIVATE/PUBLIC TASK FORCE MEETING

*There is going to be an Emergency Meeting for the Allegheny River Lock Private/Public Task Force Re: Preliminary meeting to bring all information together before the large group meeting in April that we will have to get a date for yet. The meeting will be at the Belmont Complex on March 18, 2011 @ 10:00 AM. **DUAL CHAMBER***

MARCH 21, 2011

Pittsburgh District High Water Conference Call and Webinar Conducted

HIGH WATER CONFERENCE CALL AND WEBINAR – THE FOLLOWING IS A SUMMARY:

- *Steady rain Tuesday night.....thunderstorms possible Wednesday*
 - *Rainfall through Wednesday 1.0 to 1.5 inches*
- *No large rises forecast*
 - *Lower Allegheny and a few location on the upper Ohio Rivers may be above Action Stage by end of the week*
 - *Pittsburgh may go above 18.0' Wednesday night or Thursday. Ohio and Lower Allegheny Rivers will remain high through the week*
- *Not much agreement among models on next storm*
 - *Below normal temperatures through the weekend*
 - *No large rain event before next week*

MARCH 22, 2011

Navigation Hazard

OHIO RIVER MILE 332 – SALVAGE OPERATIONS

Please be advised a salvage operation is schedule to begin at 0900 this morning in vicinity of MM 322 Ohio River, near the left descending bank, approximately 200 ft outside the navigational area. A broadcast will be ongoing during the operation to make vessel traffic aware. Navigation should not be impacted other than requesting minimum safe speed when passing the area to ensure the safety of the salvage and dive personnel.

MARCH 23, 2011

Navigation Hazard

OHIO RIVER MILE 332 – SALVAGE OPERATIONS

Yesterday's salvage ops at OHR MM 332 completed around 1900 and the vessel was safely raised and taken to dry-dock.

MARCH 24, 2011

Navigation Notice No. 11-03, Date March 7, 2010

SUBJECT: SCHEDULE OF OPERATIONS FOR 2011 MONONGAHELA RIVER LOCKS

To view Notice to Navigation Interests go to: <http://www.lrp.usace.army.mil/or/or-f/navrpt.htm>

Navigation Notice No. 11-03, Date March 7, 2010

SUBJECT: SCHEDULE OF OPERATIONS FOR 2011 ALLEGHENY RIVER LOCKS

To view Notice to Navigation Interests go to: <http://www.lrp.usace.army.mil/or/or-f/navrpt.htm>

MARCH 25, 2011

Navigation Notice No. 11-05, Date March 25, 2011

SUBJECT: HULTON ROAD BRIDGE TEST BORINGS; ALLEGHENY RIVER, MILE 12.7

To view Notice to Navigation Interests go to: <http://www.lrp.usace.army.mil/or/or-f/navrpt.htm>

Navigation Notice No. 11-06, Date March 25, 2011

SUBJECT: INTAKE INSPECTION AND REPAIRS; MONONGAHELA RIVER, RIGHT BANK, MILE 78.1

To view Notice to Navigation Interests go to: <http://www.lrp.usace.army.mil/or/or-f/navrpt.htm>

US Army Corps of Engineers

MAINTENANCE SCHEDULE REVISION --VERIFICATION

The Repair Schedule has not changed for the remainder of the year. However, unless we receive supplemental funding the dewatering at Gray's Landing and the small dam gate job at Morgantown will probably not get done. All jobs scheduled from March through December will go off as planned with those two exceptions and they will go if we get the funds.

The following scheduled ACOE Monongahela River maintenance and repair projects have been cancelled for 2011.

Gray's Landing Chamber Closure August 22, 2011 through September 16, 2011

Morgantown Dam Gate Repair

These cancellations were necessary to pay for the overruns at Pike Island L/D.

Pittsburgh District River Conditions

IN RELATION TO WATERWAYS ACTION PLAN

Please see attached Waterways Action Plan Pittsburgh District Status Board. Emsworth is back in the action stage due to a 90.0 – All Out – Gate Opening.

Hannibal Lock & Dam

BULKHEAD REMOVAL

Hannibal has removed the bulkheads from the small chamber. Both chambers are fully operational.

MARCH 28, 2011

Allegheny River Locks

BACK IN OPERATION

Lock #5 and lock #8 AR are back in service. Everything except the 600' at New Cumberland is operable.

Barge Sinking

OHIO RIVER MILE 145

Please be advised the CG is responding to a hopper barge (coal) taking on water near the LDB of the Ohio River at mile marker 145. Currently, the tow vessel tending the barge is stationed just outside the navigation line, so please proceed w/ caution. A broadcast has been released advising the same. Lock #5 and lock #8 AR are back in service.

Please be advised the barge is now fully submerged AND WITHIN THE NAVIGABLE CHANNEL. We will be updating the broadcast to a safety advisory restricting the area to single tow passage (no meeting situations) only in that area. Please ensure your vessels arrange safe passage with any oncoming traffic in this area. It is advised to favor the right descending bank of the channel when passing. Updates will follow, tentative plans for salvage are for tomorrow sometime pending arrival of equipment.

Barge status unchanged, salvage equipment to be staged and begin salvage ops by Wed morning. Will update all if changes to navigation are required; however, none expected at this time. Safety advisory restricting the area to single tow passage (no meeting situations) only in that area still in effect.

MARCH 30, 2011

Barge Sinking

OHIO RIVER MILE 145

Offloading of the barge continues and Salvage operations will start on or about 0700 Thursday, 31-March-2011. We will update all if changes to navigation are required; however, none expected at this time. Safety advisory restricting the area to single tow passage (no meeting situations) only in that area still in effect.