

PORTER COUNTY STORMWATER ADVISORY BOARD
March 13, 2023

LOCATION: County Administrative Center, Ste 205 TIME: 5:00 p.m.
155 Indiana Avenue, Valparaiso IN

MEMBERS IN ATTENDANCE

Scott Severson, Bill Laird, Paul Nelson, Greg Simms and Andy Vasquez (Late). Laura Blaney and Todd Elliott were absent. Also in attendance were Clay Patton-Attorney, Kevin Breitzke, Chelsey Gordon, Meredith Phillis, and staff.

All Recommendations will be voted on at the next Storm Water Management Board meeting

New Business

Docket No. SM-23-0011

Applicant: NIPSCO

Location: North of US 12, in the Town of Burns Harbor

Request: To construct an access drive within the easement of Samuelson Ditch

A NIPSCO representative was on line.

Staff Findings and Recommendation

The applicant is proposing to install a permanent, stabilized access drive within the regulated drainage easement associated with Samuelson Ditch. The proposed access drive will utilize an existing drive path and culverts that carry the existing drive path and US 12 over Samuelson Ditch. The work will occur from McCool Rd and terminate west of Samuelson Ditch. The proposed access drive will provide access for NIPSCO right-of-way maintenance as well as the SR 249 pipe relocation project.

As stated in the application, the existing drive path is in poor condition and not suitable for the required access for right-of-way maintenance and the SR 249 pipeline relocation project. The proposed access drive will consist of a MIRAFLI 600X Geotextile Fabric and 6 IN. – 12 IN. of INDOT 53 coarse aggregate. The proposed access drive will match the existing adjacent grade. Areas disturbed during the performance of the work will be restored with Great Lakes Dune Seed Mix as well as erosion control blanket. Temporary perimeter erosion control (i.e. silt fence) will be installed along the top of bank of Samuelson Ditch within the work area.

At this time, staff recommends approval of the use of the regulated drainage easement associated with Samuelson Ditch to install a permanent access drive. The standard terms and conditions associated with conducting work within a regulated drain/regulated drainage easement (as stated in the application), including the execution of a hold harmless agreement between the applicant and Porter Co. regarding any damages the improvements may incur

during the repair, maintenance, construction, or reconstruction of Samuelson Ditch and/or any damages that Samuelson Ditch may incur during or as a result of construction of the improvements shall apply to the project.

In making an application to conduct the proposed work, the applicant has agreed to restore any disturbance to the regulated drain and/or regulated drainage easement to a condition as good or better than that found prior to the commencement of the work. In addition to the standard terms and conditions outlined above, staff also recommends that the following special provisions be applied to the project:

1. Install proper erosion and sediment controls (e.g., perimeter controls, restoration of disturbed areas as soon as possible following the completion of land disturbing activities) around all work areas associated with the work to minimize the potential for sediment and other pollutants to leave such work area.
2. Contact the Department at least 72 hours prior to the start of work within the regulated drainage easement associated with Samuelson Ditch so that staff may be present during the performance of the work.

Questions/Comments from the Board

NIPSCO Representative – They are upgrading the gravel that will be used to be INDOT No. 2 topped with INDOT no. 3.

Kevin Breitzke – They may also be involved with the railroad right of way. That is not a County issue. It is NIPSCO's responsibility to work with the railroad.

Motion: Paul Nelson moved to approve Case SM-23-0011 with staff recommendations. Greg Simms seconded the motion and so approved with a 4-0 voice vote.

Docket No. SM-23-0012

Applicant: NIPSCO

Location: North side of CR 400 N and approximately 1,300 FT west of CR 325 E

Request: To replace two poles within the easement of Flint Lake Garden Terrace Ditch.

Staff Findings and Recommendation

The applicant is proposing to install two (2) utility poles on the north side of CR 400 N within the regulated drainage easement associated with Flint Lake Garden Terrace Ditch (open drain) as a part of the Pole Replacement Project (PRP)-T-DVG-VALPO Packet (PKT) 1 to update the existing electric utility system and maintain compliance with current utility regulations. The work will include the replacement of two (2) utility poles along the south side Flint Lake Garden Terrace Ditch and within the associated regulated drainage easement. Construction access to

remove the existing pole, auger the hole and install the replacement pole will remain from CR 400 N.

Pole 427302 and Pole 427303 are located at the south top of bank of Flint Lake Garden Terrace Ditch. As shown on the construction plans, temporary perimeter sediment control (i.e. filter sock/silt log) will be installed around the work area to prevent sediment transport to Flint Lake Garden Terrace Ditch. A dewatering filter bag will also be utilized to reduce sediment discharge if dewatering is required during the performance of the work.

At this time, staff recommends the approval of the pole replacement within the regulated drainage easement associated with Flint Lake Garden Terrace Ditch. The standard terms and conditions associated with conducting work within a regulated drain/drainage easement (as stated in the application), including the execution of a hold harmless agreement between the applicant and Porter Co. regarding damages the improvements may incur during the repair, maintenance, construction, or reconstruction of Flint Lake Garden Terrace Ditch and/or any damages that Flint Lake Garden Terrace Ditch may incur during or as a result of construction of the improvements shall apply to the project.

In making an application to conduct the proposed work, the applicant has agreed to restore any disturbance to the regulated drain and/or regulated drainage easement to a condition as good or better than that found prior to the commencement of the work. In addition to the standard terms and conditions outlined above, staff also recommends that the following special provisions be applied to the project:

1. Contact the Department at least 72 hours prior to the start of work within the regulated drainage easement associated with Flint Lake Garden Terrace Ditch so that staff may be present during the performance of the work.

Staff notes that the applicant has submitted an erosion and sediment control permit application and the applicant will need to obtain a permit from the Department for any work conducted within the county road rights-of-way.

The poles that are being replaced with either be adjacent to or in the same location as the existing poles.

Questions/Comments from the Board

Kevin Breitzke – Are there going to be guy wires on the poles?

NIPSCO representative – If there are they will be in an east/west direction, not in the ditch. They will have a yellow plastic sleeve on them.

Motion: Paul Nelson moved to approve Case SM-23-0012 with staff recommendations. Greg Simms seconded the motion and so approved with a 4-0 voice vote.

Docket No. SM-23-0013

Applicant: NIPSCO

Location: South side of CR 400 N and approximately 1,320 FT east of CR 325 E

Request: To replace one pole within the easement of Flint Lake Garden Terrace Ditch.

Staff Findings and Recommendation

This is near Augustine Subdivision. The applicant is proposing to install one (1) utility pole on the south side of CR 400 N within the regulated drainage easement associated with Flint Lake Garden Terrace Ditch (open drain) as a part of the Pole Replacement Project (PRP)-T-DVG-VALPO Packet (PKT) 2 to update the existing electric utility system and maintain compliance with current utility regulations. The work will include the replacement of one (1) utility pole on the west side Flint Lake Garden Terrace Ditch and within the associated regulated drainage easement. Construction access to remove the existing pole, auger the hole and install the replacement pole will remain from CR 400 N.

Pole 427316 is located approximately 10 FT from the west top of bank of Flint Lake Garden Terrace Ditch. As shown on the construction plans, temporary perimeter sediment control (i.e. filer sock/silt log) will be installed around the work area to prevent sediment transport to Flint Lake Garden Terrace Ditch. A dewatering filter bag will also be utilized if dewatering is required during the performance of the work.

At this time, staff recommends the approval of the pole replacement within the regulated drainage easement associated with Flint Lake Garden Terrace Ditch. The standard terms and conditions associated with conducting work within a regulated drain and/or regulated drainage easement (as stated in the application), including the execution of a hold harmless agreement between the applicant and Porter Co. regarding damages the improvements may incur during the repair, maintenance, construction, or reconstruction of Flint Lake Garden Terrace Ditch and/or any damages that Flint Lake Garden Terrace Ditch may incur during or as a result of construction of the improvements shall apply to the project.

In making an application to conduct the proposed work, the applicant has agreed to restore any disturbance to the regulated drain and/or regulated drainage easement to a condition as good or better than that found prior to the commencement of the work. In addition to the standard terms and conditions outlined above, staff also recommends that the following special provisions be applied to the project:

1. Contact the Department at least 72 hours prior to the start of work within the regulated drainage easement associated with Flint Lake Garden Terrace Ditch so that staff may be present during the performance of the work.

Staff notes that the applicant has submitted an erosion and sediment control permit application and the applicant will need to obtain a permit from the Department for any work conducted within the county road rights-of-way.

Questions/Comments from the Board

Motion: Greg Simms moved to approve Case SM-23-0013 with staff recommendations. Paul Nelson seconded the motion and so approved with a 4-0 voice vote.

Docket No. SM-23-0014

Applicant: Valparaiso City Utilities

Location: Approximately 1 mile east of the intersection of CR 450 E and 200 N

Request: After-the-fact approval for construction of an access road and a 10" water main within the easement of Crooked Creek

Steve Poulos presented for the City of Valparaiso.

Staff Findings and Recommendation

The applicant is requesting after the fact approval for a 10 FT stone access drive and a 10 IN PVC raw water main located within the regulated drainage easement associated with Crooked Creek. The access drive and water main are located near the top of bank of Crooked Creek. Staff notes that the Department would have requested the improvements be located further from the top of bank of Crooked Creek if pre-construction coordination and approval occurred in order to prevent damage to such improvements during the maintenance of Crooked Creek and conflict with a contemplated stream restoration project on Crooked Creek.

Per the provided construction plans, the water main shall have 5 FT of minimum cover; however, the construction plans do not have existing grade elevations so staff cannot confirm that 5 FT of minimum cover was provided. The stone access drive consists of geogrid, 8 IN of No. 2 aggregate, and 4 IN. of No. 53 aggregate. On one set of construction plans it looks like there is an electric service line being provided to the well but that is not shown on the remaining construction plans. Staff requests that the existing pre-construction topography survey be provided as well as as-built survey data on as-built (i.e., red-line) construction plans in order to confirm that no fill has been placed within the floodplain or floodway. Staff also notes that the access drive and water main are located within the Indiana DNR Approximate Floodway for Crooked Creek and the access drive may not be usable during a flood event. Staff notes that the Department received IDNR's authorization for the construction of the improvements within the floodway.

At this time, staff recommends after the fact approval of the improvements located within the Crooked Creek regulated drainage easement. The standard terms and conditions associated with conducting work within a regulated drain/regulated drainage easement (as stated in the application), including the execution of a hold harmless agreement between the applicant and

Porter Co. regarding any damages the improvements may incur during the repair, maintenance, construction, or reconstruction of Crooked Creek and/or any damages that Crooked Creek may incur during or as a result of construction of the improvements shall apply to the project.

In making an application to conduct the proposed work, the applicant has agreed to restore any disturbance to the regulated drain and/or regulated drainage easement to a condition as good or better than that found prior to the commencement of the work. In addition to the standard terms and conditions outlined above, staff also recommends the following special provisions be applied to the project:

1. Porter Co. may utilize the stone access drive during the repair, maintenance, construction, or reconstruction of Crooked Creek, and is not responsible for the maintenance and repair of the stone access drive, nor damages that the stone access drive may incur during the repair, maintenance, construction, or reconstruction of Crooked Creek.
2. Install proper erosion and sediment controls (e.g., perimeter controls, restoration of disturbed areas as soon as possible following the completion of land disturbing activities) around all work areas associated with the work to minimize the potential for sediment and other pollutants to leave such work area.
3. Provide the Department with pre-construction topography survey data shown on the construction plans and post-construction as-built survey data on as-built (i.e. red-line) construction plans for the improvements which shall include the watermain and stone access drive and the approximate location of the electric service line.

Staff notes that a driveway permit was obtained from the Department for the construction of the stone access drive within the right-of-way associated with CR 200 N, but that a Site Improvement/Erosion & Sediment Control Permit was not obtained.

Questions/Comments from the Board

Bill Laird – He is an employee of the City of Valparaiso. He has been advised he does not have to recuse himself from the vote.

Steve Poulos – He apologized for After The Fact. They thought they had gone through the correct process for the driveway cut program. He hopes they have the information they need.

Chelsey Gordon - As far as the construction plans we are ok except for the pre-existing topography to be added to the construction plans and providing as built survey data on the stone access drive, the water main as well as the electric service line.

Mike Novotney – He knows they got the IDNR Letter of Authorization to construct the project in a floodway. From a local flood plain management perspective they have to look into the

topography to see if fill was added to the flood plain. He also has a question about the well house and well head itself and elevations of them in relation to the base flood elevation. What does the wellhouse construction look like?

City of Valparaiso – It is going to be a platform.

Mike Novotney – Is there a slab or a foundation wall?

City of Valparaiso – A slab. It will be raised up about 4' on a concrete foundation.

Mike Novotney – On fill or a stem wall construction?

City of Valparaiso – Stem wall.

Mike Novotney – In that case you won't have to provide flood openings for that stem wall. But they will want to see the detail of that construction. This is not related to the Board's action tonight but from an After the Fact perspective issuing the erosion and sediment control permit, they have to look at the flood plains too.

Motion: Greg Simms moved to approve Case SM-23-0014 with staff recommendations. Paul Nelson seconded the motion and so approved with a 4-0 voice vote.

Andy Vesquez joined the meeting.

Docket No. SM-23-0015

Applicant: Valparaiso City Utilities

Location: 2101 Wesley Rd. and 1050 & 1150 Loudermilk Ln. (in the City of Valparaiso), and approximately 1 mile east of the intersection of CR 450 E and 200 N

Request: To discharge development and testing water that's necessary to allow for the construction of new potable water wells for the City of Valparaiso

Staff Findings and Recommendation

The applicant is requesting to discharge development and test water to Flint Lake Garden Terrace Ditch, South Koselke Ditch, and Crooked Creek during the construction of four (4) wells, FL-12, AP-11, AP-19, and AP-18. The construction sequence will be AP-11, AP-19, FL-12, then AP-18 with construction of the first well beginning as soon as approval from Porter Co. is received. Construction of each well will take approximately one to two weeks. The discharge rates and times will vary on the well location and phase of construction. Development water will contain drilling fluids, aquifer particles, sediment, and turbidity. The applicant has stated that a dewatering bag will not be used to reduce sediment discharge. Test water will be clean groundwater without sediment and turbidity, according to the information provided by the applicant. Per the applicant, development water will be discharged over a timeframe of approximately one week, and test water pumping can be adjusted to occur around rain events.

Well AP-11 is located at 1150 Loudermilk Ln., in the City of Valparaiso. The development and test water will flow overland to an existing storm sewer inlet and discharge to an existing retention basin (i.e. wet basin). South Koselke Ditch serves as the outlet for the area and will serve as the overflow for excess development and test water from the retention basin. The development water will discharge at 7,500 gpd (gallons per day) for 7 days and at 600 gpm (gallons per minute) for 120 minutes (2 hours), for a total development water volume of 124,500 gallons. The applicant has estimated that the retention volume of the retention basin is 480,248 gallons. Staff notes that an existing outlet pipe for the retention basin will need to be temporarily plugged and a temporary berm may need to be constructed to provide the estimated retention volume. The applicant has noted that development water should not discharge to South Koselke Ditch, but will be retained in the existing retention basin. The sediment and turbid particles from the development water will settle out in the existing retention basin.

The test water will discharge at a variable rate with a maximum discharge rate of 700 gpm for 240 minutes (4 hours), and a constant discharge rate of 600 gpm for 1,440 minutes (24 hours), for a total test water volume of 1,032,000 gallons. Test water will overflow the existing retention basin and into South Koselke Ditch since the discharge volume exceeds the retention volume of the rain garden.

Staff does not have concerns with the capacity of South Koselke Ditch to convey the test water discharge volume. Staff notes that discharge will potentially overflow on airport property and the applicant shall coordinate with the airport regarding the potential overflow.

Well AP-19 is located at 1050 Loudermilk Ln., in the City of Valparaiso. The development and test water will flow overland to an existing swale and discharge to an existing detention basin (i.e. dry basin). South Koselke Ditch serves as the outlet for the area and will serve as the overflow for excess development and test water from the detention basin. The development water will discharge at 7,500 gpd for 7 days and at 600 gpm for 120 minutes (2 hours), for a total development water volume of 124,500 gallons. The applicant has estimated that the retention volume of the detention basin is 6,479,983 gallons at a depth of 5.5 FT; however, staff has estimated the approximate retention volume of the detention basin is 3,534,300 based on the approximate lowest top of bank elevation at a depth of 3 FT. The applicant has noted that development water should not discharge to South Koselke Ditch, but will be retained and infiltrate in the existing detention basin.

The test water will discharge at a variable rate with a maximum discharge rate of 700 gpm for 240 minutes (4 hours), and a constant discharge rate of 600 gpm for 4,320 minutes (72 hours), for a total test water volume of 2,760,000 gallons. The applicant has noted that the test water will be retained and infiltrate within the detention basin and should not overflow to South Koselke Ditch.

Staff does not have concerns with the capacity of South Koselke Ditch to convey the discharge volume, if the discharge should overflow the existing detention basin. Staff notes that discharge will potentially overflow on airport property and the applicant shall coordinate with the airport regarding the potential overflow.

Well FL-12 is located at 2101 Wesley Rd., in the City of Valparaiso. The development and test water will flow overland from the well site to an existing rain garden. Flint Lake Garden Terrace Ditch serves as the outlet for the area and will serve as the overflow for excess development and test water from the existing rain garden. The development water will discharge at 7,500 gpd for 7 days and at 400 gpm for 120 minutes (2 hours), for a total development water volume of 100,500 gallons. The applicant has estimated that the retention volume of the rain garden is 129,921 gallons. Sand bags will be placed on the outflow weir of the rain garden to increase the retention capacity of the rain garden. The applicant has noted that development water should not discharge to Flint Lake Garden Terrace Ditch, but will be retained and infiltrate in the existing rain garden.

The test water will discharge at a variable rate with a maximum discharge rate of 450 gpm for 240 minutes (4 hours), and a constant discharge rate of 400 gpm for 1,440 minutes (24 hours) for a total test water volume of 684,000 gallons. Test water will overflow the existing rain garden and into Flint Lake Garden Terrace Ditch since the discharge volume exceeds the retention volume of the rain garden.

Staff notes that Flint Lake Garden Terrace Ditch has long-standing capacity and flooding issues, in particular east of SR 49 in unincorporated Porter Co. Given the provided construction timeframe, construction of FL-12 will occur in mid-April, when seasonal groundwater levels are high and flow rates in Flint Lake Garden Terrace Ditch are also higher than drier (i.e. summer) months. Staff requests that the constant discharge test water is not discharged to Flint Lake Garden Terrace Ditch within 48 hours of a 10-YR rain event to help minimize overbank flooding on Flint Lake Garden Terrace Ditch and associated property flooding and roadway overtopping (i.e., CR 325 E).

Well AP-18 is located approximately 1 mile east of CR 450 E, in unincorporated Porter Co., approximately 200 FT west of Crooked Creek. The development water will discharge overland into an existing swale. The outlet pipe for the swale will be plugged to prevent development water from discharging to Crooked Creek. The development water will overflow the existing swale into the field. Given the construction timeframe, construction of well AP-18 will occur in late April. Staff notes that discharge will overflow onto the adjacent farm field and, given the proximity to spring planting time, the applicant shall coordinate with the property owner regarding the potential overflow. The development water will discharge at 7,500 gpd (gallons per day) for 7 days and at 500 gpm (gallons per minute) for 120 minutes (2 hours), for a total development water volume of 112,500 gallons. The applicant has estimated that the retention volume of the existing swale is 37,851 gallons. The applicant has noted that development water should not discharge to Crooked Creek, but will be retained and infiltrate in the existing swale and field.

The test water will discharge directly to Crooked Creek and will utilize erosion control measures to prevent erosion at the discharge location. The erosion control measures will include sandbags and impervious tarp to create a temporary channel to the water surface of Crooked Creek. The test water will discharge at a variable rate with a maximum discharge rate of 600 gpm for 240 minutes (4 hours), and a constant discharge rate of 500 gpm for 1,440 minutes (24 hours), for a total test water volume of 864,000 gallons.

Staff does not have concerns with the capacity of Crooked Creek to convey the test water discharge volume. Staff notes that the regulated drainage easement associated with Crooked Creek will be utilized as a construction access route via the constructed stone access drive as presented in Case SM23-0014.

Raw Water Quality Report

The applicant has provided a summary of the raw water quality reports for the wells. The tested constituents were compared to drinking water regulatory limits. Staff requests that the applicant confirm that the test results do not exceed state surface water quality standards. Staff notes that dissolved solids were provided in the test results; however, suspended solids (TSS) were not provided. The applicant has stated that suspended solids (TSS) are not present and therefore not shown on the raw water quality report.

Staff Recommendations

At this time, staff recommends approval of the applicant's request to discharge test water to South Koselke Ditch, Flint Lake Garden Terrace Ditch, and Crooked Creek. Per the information provided by the applicant, development water will not discharge to the aforementioned regulated drains. The standard terms and conditions associated with conducting work within the regulated drain/drainage easement (as stated in the application), including the execution of the hold harmless agreement between the applicant and Porter Co. regarding any damages the improvements may incur during the repair, maintenance, construction, or reconstruction of South Koselke Ditch, Flint Lake Garden Terrace Ditch, and Crooked Creek and/or any damages that South Koselke Ditch, Flint Lake Garden Terrace Ditch, and Crooked Creek may incur during or as a result of construction of the improvements shall apply to the project.

In making an application to conduct the proposed work, the applicant has agreed to restore any disturbance to the regulated drain and/or regulated drainage easement to a condition as good or better than found prior to the commencement of the work. In addition to the standard terms and conditions outlined above. Staff also recommends that the following special provisions be applied to the project

1. Well FL-12 constant discharge test water is not discharged to Flint Lake Garden Terrace Ditch within 48 hours of a 10-YR rain event to help minimize overbank flooding on Flint Lake Garden Terrace Ditch and associated property flooding and roadway overtopping (i.e., CR 325 E).
2. Provide property owner/farmer authorization for the overtopping and infiltration of development water from well AP-18 in the field which may disrupt planting schedule.

3. Provide certified statement that the raw water quality report does not exceed state surface water quality standards.
4. Install proper erosion and sediment controls (e.g., perimeter controls, restoration of disturbed areas as soon as possible following the completion of land disturbing activities) around all work areas associated with the work to minimize the potential for sediment and other pollutants to leave such work areas.
5. Invite the Department to the pre-construction conference to be held prior to the start of work.
6. Contact the Department at least 72 hours prior to the discharge of water to the regulated drain and/or drainage easement associated with South Koselke Ditch, Flint Lake Garden Terrace Ditch, and Crooked Creek so that staff may be present during the performance of the work.

City of Valparaiso

Steve Poulos – He introduced Scott Neemcamp with Arcadis and Bob Garmon who is with the Utilities. These are important wells. In 2015 they constructed eight wells in this area. These four are replacing aging wells within the system.

Questions/Comments from the Board

Andy Vasquez - How is the 10-year rain monitored? Is the soil the same.

Mike Novotney – There is no farm land that will be affected. Flint Lake Garden Terrace is what it has been suggested be monitored.

Andy Vasquez – How close to residential is the overflow? If there is enough overflow, the soil will not percolate well.

Mike Novotney – The septic is located out of the flood plain. He thinks the flood plain map in that area fairly represents the areas impacted by large rainfall events.

Kevin Breitzke – If they have had issues in the past this is going to be relatively insignificant.

Mike Novotney – They use CoCoRaHS that has residents with certified rain gages and national forecasting to monitor rainfall.

Paul Nelson – These are replacing existing wells. Are they driving to the same depth?

Scott Neecamp - Very Similar, Yes

Paul Nelson – What is that depth?

Scott Neecamp – One is 80'. The two by Loudermilk Lane are 120'. The one at the Flint Lake Plant is around 140'.

Motion: Andy Vasquez moved to approve Case SM-23-0015 with staff recommendations. Greg Simms seconded the motion and so approved with a 5-0 voice vote. (Andy Vasquez was present for this vote)

Storm Water Program Manager's Report

Chelsey Gordon reported they recently nearly completed the culvert replacement project near the LaPorte County line. They have seen improvements. The culvert was 18' deep. The culvert was 8'. This was a challenge. They have received 50 drainage complaints to date. They are being assigned to staff to meet with the property owners.

Discussion

Andy Vasquez – There is an area of concern at Second Street and 130 in Wheeler. Is that part of the County's area to address?

Mike Novotney – If there are specific properties, he would be happy to talk to Andy off line about them. Generally speaking, the drainage problems affecting the people in that area is an old drain tile. The tile runs directly through the basements of a lot of those homes. These homes suffer flooding frequently. It is something they are aware of. They would like to resolve it. It is a complex issue. The people talking to Andy should go on line and submit a drainage concern. Staff will respond to them.

Next Meeting Date: April 10, 2023

Time: 5:00 p.m. Room 205

There being no further business, the meeting recessed.

Scott Severson, President

Chelsey Gordon, Storm Water Program Manager