
LAKE TARPON AREA WATER QUALITY AREA #6 PROJECT SITE PICTURES JUNE 2011

The Construction Phase of the Lake Tarpon Alum Water Quality Area 6 project, located on the east side of US Hwy 19 at Oakwood St., is complete. The project includes treating stormwater with alum (aluminum sulfate) to return cleaner water to Lake Tarpon.



1. Looking to the northeast at Tarpon Area #6 prior to the construction phase. The pond is obscured by vegetation.



2. Looking southwest at Tarpon Area #6 prior to the construction phase.



3. Looking east at the area where stormwater enters the system. This is the point where the box culverts direct flow of the stormwater toward the western end of the pond to enable better treatment. In the foreground, you can see the staff gauge and flow sensor cables going into the open box culvert.



4. Looking southeast over the pond and alum building. The treated stormwater starts its journey to Lake Tarpon in this area of the pond. It then travels east to pass over the weir at the eastern boundary of the pond. As the treated stormwater travels east across the pond more and more pollutants have time flocculate out of the water column.



5. Looking west from the weir over the entire pond. In the foreground is the skimmer which traps floating debris prior to discharge over the weir. The treated water will start off in the western portion of the pond and flow toward the eastern portion. At the eastern end of the pond the treated water will flow over the weir and ultimately reach Lake Tarpon.



6. Looking northeast at the end of the pond. The water leaves the pond, passing under the skimmer, and flows through the wetland toward Lake Tarpon. The green structure is the skimmer which will trap debris before it can flow over the weir. The weir is the concrete structure behind the skimmer.



7. Looking east away from US Hwy 19. This is the front of the alum system building. This room houses the alum tank and compressor necessary to operate the alum system.



8. This is a closer view of the tank room for the alum building.



9. Looking west toward US Hwy 19. This is the back of the building with a door to the pump room. This room houses the pumps and electronics necessary to operate the alum system.



10. Looking Southeast over the pond. In the background you see the north-side of the completed alum system building with the tank room door open.

LAKE TARPON AREA WATER QUALITY AREA #6 PROJECT SITE PICTURES FEBRUARY 2011

The Construction Phase of the Lake Tarpon Alum Water Quality Area 6 project, located on the east side of US Hwy 19 at Oakwood St., is continuing. The project includes treating stormwater with alum (aluminum sulfate) to return cleaner water to Lake Tarpon. The site-work contractor has excavated the existing pond, replaced the perimeter fence, installed sod, and installed a new box culvert to route the water further to the west to increase the flow path of the water and improve water quality treatment. The last part of the Construction Phase is the construction of the alum building. The building construction began in December 2010 and should be complete by April 2011.



1. Looking to the northeast at Tarpon Area #6 prior to the construction phase. The pond is obscured by vegetation.



2. Looking southwest at Tarpon Area #6 prior to the construction phase.



3. Looking north at the area where stormwater enters the system. This is the point where the box culverts (out of sight in the bank and beneath the water) will divert flow toward the western end of the pond to enable better treatment. The riser in center of the northern bank marks the beginning of the box culvert system.



4. Looking west from the weir over the entire pond. In the foreground is the skimmer which traps floating debris prior to discharge over the weir. The treated water will start off in the western portion of the pond and flow toward the eastern portion. At the eastern end of the pond the treated water will flow over the weir and ultimately reach Lake Tarpon.



5. Looking northeast at the end of the pond. The water leaves the pond, passing under the skimmer, and flows through the wetland toward Lake Tarpon. The green structure is the skimmer which will trap debris before it can flow over the weir. The weir is the concrete structure behind the skimmer.



6. Looking east toward the Lake Tarpon. This is the front of the alum system building, as you enter the site. This section of the building will hold the alum tank (shown in picture), the generator, and compressor.



7. Looking west toward US Hwy 19. This is the back of the alum system. In the background, you see the back of the building with a door to the pump room. This room will house the pumps and electronics necessary to operate the alum system. In the foreground you can see the beginning of the construction of a swale that will help to retain water that runs off of the building.



8. Looking west toward US Hwy 19 on the north side of the pond. This picture shows the pipes that will carry alum and from the building on the south side of the pond to the point of injection. The pipes will deliver air and alum to treat the stormwater as it enters the system.

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1. Looking to the northeast at Tarpon Area #6 prior to the construction phase. The pond is obscured by vegetation.



2. Looking southwest at Tarpon Area #6 prior to the construction phase.



3. Looking north at the area where stormwater enters the system. This is the point where the box culverts (out of sight in the bank and beneath the water) will divert flow toward the western end of the pond to enable better treatment. The riser in center of the northern bank marks the beginning of the box culvert system.



4. Looking west from the weir over the entire pond. In the foreground is the skimmer which traps floating debris prior to discharge over the weir. The treated water will start off in the western portion of the pond and flow toward the eastern portion. At the eastern end of the pond the treated water will flow over the weir and ultimately reach Lake Tarpon.



5. Looking northeast at the end of the pond. The water leaves the pond, passing under the skimmer, and flows through the wetland toward Lake Tarpon. The green structure is the skimmer which will trap debris before it can flow over the weir. The weir is the concrete structure behind the skimmer.



6. Looking north toward the weir. This side view shows the skimmer (left side of picture) and the braces and supports that fasten it to the weir (right side of picture). The treated water will flow over the weir toward Lake Tarpon.



7. Looking south from the northern bank where you can see part of the submerged box culvert structure. This structure directs the flow of freshly treated stormwater to the west to increase the treatment time of the water by lengthening the flow path before it discharges over the weir structure at the eastern end of the pond.



8. Looking east at the future site of the alum injection building. This site is located in the southeast portion of the project site. This building will house the electronic control systems, the alum storage tank, and an electric alum dosing pump.

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The construction phase of the Lake Tarpon Area water quality area 6 project located on the eastside of US Hwy 19 at Oakwood St. is continuing. The project includes treating stormwater with alum (aluminum sulfate) to return cleaner water to Lake Tarpon. The contractor is currently excavating the existing pond. A new box culvert is currently being installed to route the water further to the west to increase the flow path of the water and improve water quality treatment. Then the pond will be excavated to achieve a capacity for the most effective treatment of stormwater. The last part of this phase will be the construction of the alum building. The construction of this project is scheduled for completion in September 2010.



1. Looking to the northeast at Tarpon Area #6 prior to the construction phase. The pond is obscured by vegetation.



2. Looking southwest at Tarpon Area #6 prior to the construction phase.



3. Looking north at the area where stormwater enters the system. This is the point where the box culverts will be laid to divert flow toward the western portion of the pond to enable better treatment.



4. Looking north over the western portion of the pond at the newly laid box culverts. Once installed, these culverts will divert the stormwater to the western portion of the pond to enable better treatment.



5. Looking northwest at the pond during de-watering. This portion of the pond will be excavated and the banks will be sloped to provide the needed capacity for effective treatment of the stormwater.



6. Looking east toward the weir. In the background you can see the wetland where the treated stormwater will eventually flow into prior to entering Lake Tarpon. You can also see the start of the installation of the skimmers (green panels) that will prevent floating debris or trash from going over the weir and into the wetland.



7. Looking northeast at the weir structure where the treated water will flow into the adjacent wetland and ultimately to Lake Tarpon.



8. Looking east at the future site of the alum injection building. This site is located in the southeast portion of the site.

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1. Looking northeast at Tarpon Area #6 prior to the construction phase. The pond is obscured by vegetation.



2. Looking southwest at Tarpon Area #6 prior to the construction phase.



3. Looking north at the area where stormwater enters the system. This is the point where the box culvert will be laid to divert flow toward the western portion of the pond to enable better treatment.



4. Looking west over the western portion of the pond prior to construction resuming. In the background you will see several of the box culverts that will divert flow to the western end of the pond.



5. Looking north at the pond prior to construction resuming.



6. Looking east toward the weir. In the background you can see the wetland where the treated stormwater will eventually flow into prior to entering Lake Tarpon.



7. Looking northeast at the weir structure where the treated water will flow into the adjacent wetland and ultimately Lake Tarpon.



8. Looking east at the future site of the Alum injection building. This site is located in the southeast portion of the site.

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The construction phase of the Lake Tarpon Area water quality area 6 project located on the eastside of US Hwy 19 at Oakwood St. is continuing. The project includes treating stormwater with alum (aluminum sulfate) to return cleaner water to Lake Tarpon. The contractor is currently dewatering and excavating the existing pond. Once the excavation has been completed a new box culvert will be installed to route the water further to the west to increase the flow path of the water and improve water quality treatment. The last part of this phase will be the construction of the alum building. The construction of this project is scheduled for completion in January 2010.



1. Looking northeast at Tarpon Area #6 prior to the construction phase.



2. Looking southwest at Tarpon Area #6 prior to the construction phase.



3. Looking southeast toward the outfall weir during the dewatering and excavation processes.



4. Looking south over the middle of the site during the dewatering and excavation processes.



5. Looking southwest towards the adjacent Office Depot during dewatering and excavation process.



6. Looking east toward the weir. The excavation and dewatering processes are shown in the foreground and background, respectively.



7. Looking northwest from the southwest corner of the site during the dewatering and excavation processes.



8. Looking northeast from the middle of the site during the dewatering and excavation processes.

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The construction phase of the Lake Tarpon Area water quality area 6 project located on the east side of US Hwy 19 at Oakwood St. is continuing. The project includes treating stormwater with alum (aluminum sulfate) to return cleaner water to Lake Tarpon. A new box culvert has been installed to route the water further to the west to increase the flow path of the water and improve water quality treatment. The pond is currently being excavated to achieve a capacity for the most effective treatment of stormwater. The last part of this phase will be the construction of the alum building. The construction of this project is scheduled for completion in September 2010.



1. Looking to the northeast at Tarpon Area #6 prior to the construction phase. The pond is obscured by vegetation.



2. Looking southwest at Tarpon Area #6 prior to the construction phase.



3. Looking north over the western portion of the pond as the contractor lays the new box culverts. Once installed, these culverts will divert the stormwater to the western portion of the pond to enable better treatment.



4. Looking northwest over the western portion of the pond after completing the installation of the box culverts. The exposed portion of box culvert represents only a third of the entire structure.



5. Looking west at the terminal end of the box culvert structure. This is the point where stormwater will enter the pond before flowing east and into the wetland. The stormwater will be treated with alum prior to leaving the box culvert structure.



6. Looking southwest over the pond, the manhole cover represents the beginning of the box culvert structure. In the background, you can see the contractor continuing excavation.



7. Looking west over the pond as the contractor excavates and contours the slope of the bank. On the right side of the picture you can see the terminal end of the box culvert structure.



8. Looking southeast you can see the contractor (Pepper Construction) removing soil and contouring the bank. This will create the volume needed in the pond for effective treatment of stormwater.



9. Looking northeast toward the weir. In the background you can see the wetland where the treated stormwater will eventually flow into prior to entering Lake Tarpon. You can also see the newly installed skimmers (green panels) that will prevent floating debris and trash from going over the weir and into the wetland.



10. Looking east at the future site of the alum injection building. This site is located in the southeast portion of the site.

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The construction phase of the Lake Tarpon Area water quality area 6 project located on the eastside of US Hwy 19 at Oakwood St. has begun. The project includes treating stormwater with alum (aluminum sulfate) to return cleaner water to Lake Tarpon. The contractor is currently in the process of dewatering and excavating the existing pond. Once the excavation has been completed a new box culvert will be installed to route the water further to the west to increase the flow path of the water and improve water quality treatment. The last part of this phase will be the construction of the alum building. The construction of this project is scheduled for completion in January 2010.



1. Looking northeast at Tarpon Area #6 prior to the construction phase.



2. Looking southwest at Tarpon Area #6 prior to the construction phase.



3. Looking south over the weir prior to the construction phase.



4. Looking south over the weir during de-watering and excavation process.



5. Looking southwest towards the Office Depot during de-watering and excavation process.



6. Looking west from on top of weir. In the foreground you see the de-watering process and in the background you see the excavation process.



7. Looking southwest from the northeast corner of the site during the de-watering and excavation process.



8. Looking southwest from the middle of the site during the de-watering and excavation process.