

MONMOUTH COUNTY RECLAMATION CENTER MONTHLY REPORT

COVERING MARCH AND APRIL, 2021

CONSTRUCTION PROJECTS

1. LEACHATE TREATMENT PLANT MODIFICATION

In November, 2018 the DEP issued an amended permit to the County of Monmouth which restricted the amount of leachate (liquid that is collected from the landfill) that can be processed on a daily basis, due to restrictions put in place on denitrification and the amount of gallons that can be processed, effective December 1, 2018. As a result, the County mothballed the plant in September, 2019 after finding that the denitrification and other restrictions made the continuation of the plant operation fiscally unfeasible. After a redesign to provide for additional supplementation of the plant, the County sought proposals for modifying the plant to achieve the new restrictions on the plant operation.

The County accepted three (3) proposals and selected Stone Hill Contracting as the vendor to provide value engineering services as well as construct the modifications. The contract is in the amount of \$2,884,000. There was a construction kick-off meeting on July 21, 2020 and the project is proceeding as planned. During the weeks of August 24, 2020 and August 31, 2020, over 180 piles were put in place as part of the foundation for the two (2) processing tanks that will be added to the plant. The project is anticipated to be completed by March 1, 2021.

September, 2020

During the past month, the foundations for the two (2) processing tanks were the focus of the major on-site work. The time consuming section of this work was the placement of reinforcing bars (rebar) on top of the piles that were put in place in August. In addition, the “starter ring” for the two tanks were delayed by about 2 weeks but will be delivered by the second week in October. The placement and installation of the starter rings is essential to the pouring of the concrete foundation for the two tanks which is scheduled for the third week in October. At this point in time, it is estimated that the project is 3 weeks ahead of schedule.

October, 2020

During the month of October, the major step for the construction of the two (2) Bio-Towers, was the completion of tying rebar and the receipt of the “starter ring” for both of the towers. That allowed for the pouring of the foundation for both towers. The pouring of the foundations was completed on October 22, 2020. It appears the project remains ahead of schedule by at least two (2) weeks.

November, 2020

During the month of November, the major construction accomplishment was the delivery of the parts and materials for both towers. This allowed for the initial construction of the bio-towers, once the foundations were poured and cured. The first 350,000 gallon tower was constructed during the month of November. The second tower of the same size was initiated right after Thanksgiving. It is anticipated that the second tower and essential plumbing tie-ins will be well on their way to completion by the end of December. Various pumps and other related materials, which had a long lead time, have been delivered to the site and will likely be able to meet the county's construction deadlines with little delay.

December, 2020:

The bio-towers have been fully erected and the installation of piping and pumps continued to be installed inside the towers. In addition, several pump foundation/platforms on-site, which are exterior to the towers, have been poured and ready for the mounting of the pumps as required. Yard piping installations, Jet pumps and supports have been started and completed this month, leaving relatively minor caulking and grouting to be done in January, 2021. The plan for the placement of the storage facility for the caustic used in the processing of the leachate has almost been completed and will be finalized in early January.

January, 2021:

The piping in the tanks and exterior piping continued in the month of January and was virtually completed at the end of the month. All piping was ready for pressure testing. Insulation for piping below grade has been started and is expected to be completed in February, 2021. The next major activity is the setting of forms and concrete for the exterior pad for the Caustic Tank, which will likely be delivered in March for installation. It is expected that the new tanks will be completed and tested by the end of February as well. The tanks which have been in existence are being used to accept seed from other leachate treatment facilities in order to grow the organisms and prepare for startup of the new tanks, once completed.

February, 2021:

During the month of February the County experienced several winter weather events which had an effect on the overall schedule for the completion of the leachate treatment plant. Between snow and rain events the delays in the schedule have exceeded two weeks. In addition due to COVID-19, there has been several delays in receiving materials and parts to the plant, since many manufacturers were shut for months and were unable to manufacture significant components of the project. However, the project is now past the major hurdles in receiving equipment that impacted the critical path for the construction of the modifications of the plant. It appears, from the most recent schedule upgrade that the project will be virtually completed and ready for commissioning by the middle of April, 2021. A notice with updated information will be sent to Tinton Falls and the TNSA as we get closer to determining the date when the plant will be ready to start processing leachate, for a test period, prior to the discharging of the treated effluent.

March and April, 2021:

During the past two months, work has been continuing on the Leachate Treatment Plant and the modifications/construction is close to completion. There have been several delays in the process, which have been tied directly to the impact of Covid-19. While some of the mechanical equipment such as various pumps require some lead time for ordering and delivery, the impact of Covid-19 has caused major delays in the receipt of these essential parts. This is due to the impact of the shut-down across the country, when fabricators were closed for business. The backlog in fabrication and delivery has been substantial and has truly impacted the construction schedule, as well as the start-up of the plant for testing. The pumps that are missing are essential to the testing and operation of the plant. It is anticipated that the equipment will be delivered by the end of May, 2021 and the plant will begin to be tested and adjusted in order to commence discharging treated leachate during the month of June. The County is committed to a joint sampling plan in conjunction with the Borough of Tinton Falls and the Township of Neptune Sewage Authority (TNSA); as well as a monthly shared sampling/testing program for the first year of operation. This is expected to start during the month of June, 2021. Prior to any discharge to the Jumping Brook Pump Station which ultimately ends at the TNSA, a notice will be sent to all parties involved.

2. GSF/MONTAUK GAS PROCESSING PLANT DEMOLITION

The most significant contributor to the odor issues that the MCRC faced was the lack of collection of the landfill methane gas due to a faulty landfill gas collection system. This was solely the responsibility of Montauk/GSF Energy as the company that had the contract since 2006. The County refused to extend the contract with GSF Energy for an additional period of time and, in response, GSF surrendered their contract and left the site on September 27, 2019. As a result, they have an obligation to remove the gas processing plant and associated systems and material within a year of the site being vacated. The demolition has commenced and will likely continue into late September or October. Hopefully, it will not continue later than that. While the County was concerned about noise, the demolition site is at the furthest point from any residential areas. We have not received any complaints about this project.

September, 2020

The demolition project was completed by September 27, 2020 as was contractually required. All underground and above ground fixtures, systems and buildings have been removed and the site has been cleaned, top soiled and seeded; again as contractually required.

October, 2020

No Change as the project has been completed.

3. LANDFILL GAS COLLECTION SYSTEM

In 2019, the County replaced the most significant portions of the failed gas collection system, which led to a virtual immediate cessation of the landfill odors that had been so prevalent in late 2018 and early 2019. By Memorial Day, 2019, about 98% of all of the odors were gone due to the drilling of 50 wells and connecting them, on a temporary basis to the existing vacuum system. That system was replaced, to a significant degree, by the new landfill gas header system, which was been completed in December 2019.

During the months of June and July, the County had an additional 38 wells drilled which are tied into the new header system. In less than a year, the County has drilled almost 90 wells that are used to provide gas collection; liquid collection, which is now dewatering the landfill; and a vacuum system which replaced the previous system. This has resulted in virtually no odors in the community and the leachate seeps, which had been experienced in the past, are now drying up, adding to the solution which has eliminated the odors. This project cost \$1.6 million.

September, 2020

The Gas Collection System continues to perform as designed. As noted above, the system continues to collect the methane gas and feeds it to Flare D, thereby removing virtually all odors from the site. In addition, the liquid pumps in the wells continue to pump leachate into the five (5) frak tanks that have been placed around the landfill. The tanks are designed to collect the leachate from the landfill and are pumped out, when full, and hauled to the Rahway Valley Sewage Authority. So far over six (6) million gallons of raw leachate have been collected through the gas collection system and removed from the landfill.

October, 2020

The Gas Collection System, continues to perform as designed. As part of the landfilling process, it is necessary to continue to raise the wells and well caps to stay above the layers of waste that are landfilled and the cover material that is applied at the end of each day. This is a fairly laborious process that requires coordination with the landfill crews as to the placement of waste and what wells require raising. As part of that coordination, there is a requirement that the pumps that are used to collect and pump leachate to the frak tanks have to be removed and replaced after the well is raised. We have discovered that some of those pumps are fouled and require cleaning and, to some degree, rebuilding. As a result of the pumps getting fouled, the collection of leachate has gone well, but is somewhat inconsistent. Therefore, it has been recommended by Waste Management that the main header for the Gas Collection System be scoped and cleaned out as needed in order to ensure that the system continues to operate as designed and expected.

November, 2020

Waste Management hired the company to scope and clean out the Gas Collection System of any materials that are hindering the collection of methane gas and leachate from the system. Their work started in the third week of November and will continue into early December. It is anticipated that their work will be completed by mid-December.

December, 2020:

The cleaning of the Gas Collection System was completed in December and the system is completely operational. The Frak tanks, which are fed by the leachate pumps in the Gas Collection System, have been filling as designed and have been essential to the MCRC removing more than 9.4 million gallons of leachate that has been pumped into the Frak tanks and hauled to the Rahway Valley Sewerage Authority.

January, 2021:

The Gas Collection System has continued to operate at full capacity during the month of January, and is operating as designed. During the month of January, 873,600 gallons of leachate were removed from the landfill through the pumps which directly feed the frak tanks.

The total amount of leachate collected directly from the landfill through the frak tanks, since the beginning of this operation is 10,572,000 gallons. This is separate from the designed leachate collection system which has been in existence since the beginning of Phase 3. That leachate is currently being hauled as well, until the Leachate Treatment Plant is finished and starts up after it is tested to ensure that it meets the characteristics that were added into the operating permit for that facility. During the month of January, the County hauled an additional 3,264,800 gallons of leachate to the Rahway Valley Sewage Authority. The total amount of leachate hauled during the month of January was 4,138,400 gallons.

February, 2021:

The Gas Collection System continues to operate at full capacity during the month of February. As reflected above, the Gas Collection System also contains pumps to collect leachate from the landfill through the wells that have been drilled. During the month of February, the amount of leachate collected and processed to the frak tanks from the collection system was **767,000** gallons. The total amount of leachate, collected directly from the landfill through the frak tanks, since the inception of this collection system, is **11,452,000** gallons.

This is separate from the leachate that is collected through the main leachate collection system, which has been in place since Phase 3 opened. During the month of February,

3,264,800 gallons of leachate was collected by the main collection system and hauled off-site for disposal at the Rahway Valley Sewerage Authority as well as Rahway Sewerage Authority. The total amount of leachate collected and hauled off-site during the month of February, was **4,138,400** gallons.

March and April, 2021:

During the months of March and April, the Gas Collection System has been expanded. The County has continued to add on to the collection system in order to increase the collection of gas which currently is being sent to Flare D to be burnt off. In late March, Waste Management managed the initiation of drilling 36 new wells to add to the gas collection system. All but 10 of those wells were drilled and fitted with leachate pumps and vacuum lines, and were located on Phase 3 of the landfill. The other 10 wells were drilled and fitted with the vacuum lines for leachate and gas collection in Phase 2 of the landfill as some of the existing wells have deteriorated and have become compromised over the last few years.

During the month of March the existing wells have collected **3,813,600** gallons of leachate from the landfill through the existing leachate collection system. In April, the wells collected **4,032,000** gallons of leachate through the existing leachate collection system. That equals **7,845,600** gallons of leachate that was collected and hauled off-site for disposal.

In addition, the newly drilled wells from 2019 and 2020 are connected to the above referenced frak tanks. During the month of March the collection of leachate in the frak tanks was **912,800** gallons. In the month of April, the frak tanks collected **884,800** gallons for a total of an additional collection of **1,797,600** gallons of leachate. This leachate was also hauled off-site for disposal. The total amount of leachate removed from the landfill and hauled off-site, during March and April was **9,643,200** gallons. The total amount of leachate hauled from January 1, 2021 to April 3, 2021 was **12,891,200**.

FLARES D and C

These two flares were used as backup gas processing facilities when the gas processing plant (which turned methane gas to electricity) was not functioning. Since September, 2019 when GSF abandoned the site, the processing plant has been shut down and all gas that is collected is currently being "flared" through Flare D. There have been times where Flare D has been taken off-line to make repairs and improve its operation.

Flare C is currently under reconstruction as it was left by GSF in a totally non-functional condition. This flare is located near the site of the former gas processing plant and will be refurbished within the next couple of months (waiting for parts to be shipped and received) and will act as a backup to Flare D when it is taken off-line for repairs or maintenance.

September, 2020

The reconstruction of Flare C has been finished. It is in the final stages of inspections and certification prior to being tested. It is expected that the Flare will be ready to be tested in late October.

October, 2020

Flare C was tested at the end of October as anticipated. There were a few items and issues that needed to be addressed before the Flare could be registered with NJ DEP and used at the landfill. Those issues are being addressed and the Flare C should be fully operational by the end of November, 2020.

November, 2020

Flare D continues to operate on a daily basis, burning off methane gas that is being collected through the gas collection system. Flare C had some initial problems with starting up automatically. However, the issues that caused those problems have been resolved and were completed by the end of November. Final testing and operations are being scheduled for the month of December. All appropriate information has been discussed with the County's engineering consultants and the appropriate notifications will be made to the NJ Department of Environmental Protection, most likely in December.

December, 2020:

Flare C has been completed and fully tested and is now fully operational. Flare C will be used primarily as a back-up to Flare D when it either is taken off-line for maintenance or if there is an issue with the Flare's performance. So the MCRC now has a fully redundant system, which is very important in regard to odors and the collection of gas from the landfill.

January, 2021:

No change as the project has been completed.

February, 2021:

No change as the project has been completed.

MAJOR ISSUES DURING: THE MONTHS OF MARCH AND APRIL, 2021

DEP NOTICES OF VIOLATION (NOVS): NONE

September, 2020: None

October, 2020

The inspector for the DEP issued an NOV on October 1, 2020 for insufficient cover material on the landfill. While the NOV was issued, the landfill crews had already been catching up on the cover material and process. The daily cover was not at issue; rather it was the interim cover of material that had been previously landfilled that caused the issuance of the NOV. The need to catch up on the interim cover was due to the excessive rain that we experienced in late September. There were several storms which dumped 2-4 inches of rain in a period of 3 weeks which wore down the interim cover, washing some of it away.

Nevertheless, by the end of October, the crews had recovered the waste and were ready for a re-inspection by the DEP inspector.

November, 2020

As noted for the month of October, above, the interim cover was repaired to the satisfaction of the DEP inspector with an admonition to stay on top of that situation. The NOV was satisfied within the 30 day time frame. The County has passed a change order to the contract that it has with Waste Management. The change order adds additional money to the Waste Management contract for additional staff, provided by Waste Management, to assist the County with the following tasks: laying interim cover; digging and repairing leachate seeps and assisting with the cleaning out of the retention basins surrounding Phase 3 of the landfill. This is part of the County's obligation under the Administrative Consent Order, and the last major project to be completed.

December, 2020:

Waste Management has continued, during the month of December, to assist the County with the additional interim cover and the repairing and correcting of leachate seeps. Progress on the retention basin project was stilted by the amount of rain that we experienced in the month of December. It was virtually impossible to "muck out" the basins, since the consistent rains filled the ponds every week and it was relatively impossible to continue to pump out the ponds and clean them out. We expect that by the end of January, we will have completed two retention basins. The remaining three basins will wait until more favorable weather conditions prevail in the Spring.

January, 2021:

During the month of January, Waste Management was successful in finishing the cleaning out of the two retention basins that had been started. While it was difficult work, the ponds were completed well ahead of the schedule contained in the ACO to which the County and DEP agreed. However, given the weather that has been experienced this winter, a decision has been made to hold off on the remaining basins until the spring weather establishes itself with a clearer weather pattern.

February, 2021:

There was no change in February related to the retention basins. Waste Management will finish the clearing of the basins when they assume responsibility for the operation and maintenance of the landfill facility at the end of March, 2021.

March and April, 2021:

There was no further action taken on the retention basins due to inclement weather in March and April. In addition, in late March and all of April, Waste Management focused on the transition to a privately operated landfill on behalf of the County of Monmouth. It is anticipated that the remaining retention basins will be addressed in June/July, 2021.

EMERGENCY RESPONSES/ISSUES THAT REQUIRED COMMUNICATION

FIRES: NONE

September, 2020: None

October, 2020: NONE

November, 2020:

During November, there were several issues related to a woodchip / mulch storage area. The stock pile of mulch was smoldering on several occasions which caused teams of employees to respond to the stock pile both during the day and on several nights to scatter the affected area of the pile and douse it with water and mix it with sand. However, on Thanksgiving night, 11/26/20, the on-shift security guard noticed large amounts of smoke emanating from the stockpile. He called the Tinton Falls Fire Department around 8:30 pm. and they responded. In addition, the Colts Neck Fire Department and the Earl Weapons Station Fire Department responded to the scene. In addition, several MCRC heavy equipment operators responded as well, separating the smoldering pile enough for the fire departments to hose it down. The MCRC is very appreciative of the assistance that was rendered by the surrounding community fire departments.

December, 2020:

During the beginning of December, there were several instances where the mulch and woodchip storage area experienced smoky conditions. In one instance, there was an open flame, however the MCRC staff that responded were able to douse the flame with a water truck from the site as well as the pulling apart of the wood chip and mulch pile and mixing it with sand. While there were several times where smoke emanated from the same storage issues, there was no need to call outside resources for assistance. By the end of December, the storage area was emptied of the troublesome material which was mixed with other cover materials and used on the landfill as interim cover.

January, 2021::

NONE

February, 2021:

NONE

March and April, 2021

NONE

MAJOR LEACHATE LEAKS: NONE

September, 2020: NONE

October, 2020

Due to the excessive rains that were experienced in October, the MCRC had to deal with over 12 inches of rain in the span of 3 weeks. This caused several minor leachate seeps which have stayed on the landfill. However, a crew was assigned to fix the seeps as soon as possible.

November, 2020

There have been no major leachate leaks at the landfill. As noted earlier, there has been leachate seeps that are caused by the amount of rain received. However, there has been no breaching of the landfill structures which are designed to keep the leachate seeps within the area above the Phase 3 liner. As was noted earlier, Waste Management has supplied supplemental staffing resources to ensure that there are no further issues with interim cover and leachate seeps.

December, 2020:

During December, Waste Management worked on the leachate seeps that existed on the upper portions of the landfill. They were successful in eliminating all of the major seeps and many of the minor seeps. They also were helpful in assisting with the application of interim cover material on the top deck of the landfill as well as covering the slopes with additional cover material.

January, 2021:

Leachate leaks have been kept under control during the month. Thanks to Waste Management, many of the seeps that were noticeable were repaired in the beginning of January. In addition, with the start of the new year, the landfill is back at full staff as the holiday vacations are over and we have full staffing with the usual exception being staff that calls out sick or have scheduled vacations.

February, 2021:

Leachate seeps, many of which were minor, have been continuously addressed during the month of February

March and April, 2021:

Regardless of the 12.9 million gallons of leachate that has been removed from the landfill through the regular leachate collection system and the frak tanks, seeps continue to pop up. However, for the most part they are minor seeps and are occurring in places that are not a danger to flowing out

of the landfill and reaching behind the liner or any of the retention basins. Waste Management continued to address these seeps during the months of March and April.

ODOR COMPLAINTS RECEIVED: 1 (not verified)

September, 2020: None

October, 2020:

The DEP and the Monmouth County Health Department received three (3) odor complaints during the month of October. The Health Department responded to the complaints and was unable to verify any of the odor complaints.

November, 2020:

In November there were five (5) odor complaints early in the month. However, none of those complaints were verified by the DEP or the County Department of Health.

December, 2020:

In December, there were 21 reported odor complaints to the County Health Department and the Department of Environmental Protection hotline. The County has not received any confirmation from either agency as to whether there were any verified complaints at this point in time.

January, 2021:

During the month of January, there were fourteen (14) odor complaints made. Twelve (12) of those complaints were called into the NJDEP hotline and the remaining two (2) calls were received directly by the Monmouth County Health Department (MCHD). The bulk of the calls were made as follows: January 12: 4 calls; January 14: 2 calls; January 21: 4 calls and January 25: 2 calls. In each circumstance there was no violation found.

The landfill continues to receive extra cover material which reduces the likelihood of odors escaping. However, as we have noted in the past couple of months, the winter weather produces a westerly wind, and often falling barometric pressure which indicates impending inclement weather. The weather pattern and the wind direction, obviously, is out of anyone's control and contributes to the potential for some odors to escape the landfill. There will always be odors within the landfill and the Gas Collection System will never be able to collect all the gas within the landfill. That is not possible. Therefore, there will always be potential odors that can emanate from the landfill, depending on whether there is falling barometric pressure that puts pressure on the landfill causing odors to leak out.

February, 2021:

During the month of February, there were eight (8) odor complaints. All eight of the complaints were called into the DEP Hotline. None of the complaints were verified and consequently, there were no violations found.

March and April, 2021:

During the months of March and April, there were a total of 14 odor complaints: 5 in March and 9 in April. In our tracking of these complaints, we are aware that many of them are from the same house or houses located on the same street, and they are reported on a regular basis.

ODORS COMPLAINTS (VERIFIED): None

September, 2020: None

October, 2020: None

November, 2020: Five (5)

During the month of November, there was one night that had confirmed odor complaints. That was the night of November 24th where the DEP and consequently the County Department of Health were alerted to 11 odor complaints within a 3 hour period of time; starting around 5:30 pm and lasting to around 8:30 pm. On that night the County Department of Health called each complainant and responded to those who wanted to pursue a complaint at their addresses. The initial assessment is that there were several confirmed odor complaints and the Department of Health is moving through the process that they follow, as a result of a confirmed complaint. The initial explanation for the number of complaints was that it was an atmospheric issue.

The night was very cloudy and bitterly cold with no wind blowing. This led to the odors that were present to stay close to the ground and in a “holding pattern” due to the lack of wind. This condition eventually did break and there were no noticeable odors later in the evening.

December, 2020:

At this point in time, it appears that there is no verification of odor complaints that were called in during the month of December. The County is aware, that during the winter months, the prevailing weather pattern shifts the prevailing wind from blowing from the East as it is during the summer to blowing from the West. With a westerly wind, any smells that emanate from the landfill will blow towards the neighbors across Shafto Road and beyond. The County has made a point of enhancing the interim cover on the top deck of the landfill and on the slopes to keep odors within the landfill as much as possible.

January, 2021: No confirmed odor complaints.

February, 2021: No confirmed odor complaints.

March and April, 2021: None of the 14 complaints for these two months were confirmed.

CONCERNS: Notification to Town of Tinton Falls

Flare D: Notification was provided to the Town regarding work on the emergency generator for the Flare which could have resulted in odors escaping (8/18/20)

Gas Processing Plant Demolition: Notification to the Town that the plant was being demolished and there was the possibility of noise issues.

Leachate Treatment Plant Modification: Notification to the Town that the foundation piling was going to be started and that it could be noisy. We did have two complaints from the noise. However, rather than an anticipated 6 week project, we completed it within 6 days and ended on August 31, 2020.

September, 2020: None

October, 2020:

The Township of Tinton Falls was notified regarding the pouring of the foundation of the leachate treatment tanks and requested an inspection before and during the pouring of the foundation. The Township Building Department responded in a timely fashion and provided the inspection service that was requested.

November, 2020: None

December, 2020: None

January, 2021: None

February, 2021: None

March and April, 2021: None

KEY PERSONNEL CHANGES: None

September, 2020: None

October, 2020: None

November, 2020: None

December, 2020: None

January, 2021: None

February, 2021: None

March and April, 2021: Please see below.

STATUS OF OPERATIONAL CHANGES:

After the County received Qualification Statements from two (2) firms that were interested in submitting proposals to Operate and Maintain the Monmouth County Reclamation Center the County issued an Request for Proposals (RFP) to both of those companies. The proposals were due July 14th, which was later extended to July 28, 2020. The County received one proposal with the other company dropping out of the competition.

The proposal that was received has been under review and internal discussion for the past several weeks. At this point in time, no decision has been made as to whether there will be an operational change.

September, 2020:

The County has met with the firm that has submitted the proposal and requested a further breakout of the financial terms proposed. This will include a further description of the costs anticipated in operating and maintaining the landfill operation. It is expected that the County will receive this information by the beginning of October at which point it will be reviewed and another meeting will be scheduled.

October, 2020:

The County received additional information from the firm that the County met with in September. There was a meeting that lasted several hours in which there was a clear discussion of potential opportunities to partner to assist the County in the operation of the landfill. That resulted in the company returning to revise their proposed budget and the concept of partnering with the County rather than simply contracting with the County as a “vendor” rather than a partner.

It is expected that towards the end of November or beginning of December, the County will be able to determine whether there will be a proposed operational change in management of the MCRC.

November, 2020:

During the month of November, the County and Waste Management, the company that has been negotiating with the County on ways to improve the operations of the landfill, arrived at a potential partnership arrangement that could/would be proposed to the County Administrator and the Board of Chosen Freeholders. While the proposed arrangement was not fully finalized, the Board met in Executive Session to hear the proposed recommendation and to ask questions and request additional information. The presentation including additional information was presented to the Board for their consideration prior to the end of November. It is expected that a Special Meeting of the Board of Chosen Freeholders, will be scheduled for early December, and that the Board will take action, one way or the other, regarding the proposal to privatize the management and maintenance of the Reclamation Center landfill operation.

December, 2020:

The Board of Chosen Freeholders met on December 8, 2020 in a special meeting to discuss the negotiated Service Agreement between the County of Monmouth and Waste Management of New Jersey, Inc. The presentation made to the Board indicated that there would be an initial savings of \$4.1 million on an annual basis versus the budget for the year 2020. In addition, based on the projected savings as well as revenue generation over the initial five (5) year agreement, it is expected that the savings over that period of time will accumulate to a minimum of \$17.3 million. The County is working with the unions that represent the employees of the MCRC to find employment opportunities either within County operating departments or with

Waste Management when they take over the operations and maintenance of the landfill. The projected transition date is March 26, 2021. The Service Agreement is being reviewed by both Waste Management and the County and is expected to be fully executed by the middle of February, 2021.

January, 2021:

Since the vote of the County Board of Chosen Freeholders on December 8, 2020, authorizing the contract/Service Agreement with Waste Management of New Jersey, Inc., the parties have been finalizing the Service Agreement through the attorneys for both entities. In addition, the County has been working to identify vacancies that will accommodate the County employees who are seeking to stay with the County once the operation and maintenance of the landfill are privatized. It is expected that the Service Agreement will be finalized and executed by the end of February, 2021.

February, 2021:

The negotiations between the parties was essentially, completed by the end of February. There are final details to be ironed out and reviewed. In the meantime, the County focused on the offering of positions to the MCRC Staff who did not apply to Waste Management for a position when they take over the operations and maintenance of the facility. The retaining of staff was done in synchronization with Waste Management as they recruited staff from the surrounding area. By the end of February, all County employees who were losing their jobs at the MCRC and were seeking to stay within the County employ had been placed into other funded vacancies, primarily within the Department of Public Works and Engineering.

March and April, 2021: On March 26, 2021, the operation of the landfill was transitioned to Waste Management of New Jersey. As noted above all County Staff who chose to remain with the County rather than seek a job with Waste Management or retire, were transferred to other positions. Only one existing staff member took a job opportunity with Waste Management.

Waste Management has instituted new procedures which have resulted in major improvements to the operation of the landfill. They have improved the cover operation and have focused on cleaning up the litter that has been prevalent under county operation. In addition, they have focused on building a road infrastructure for the landfill that will allow the municipal and commercial garbage trucks to dispose of their loads directly at the working face of the landfill. Once this becomes operational, the litter will be limited to the working face which is much easier to control, rather than the entire expanse of the MCRC property. The target date to have the haulers drive to the working face is May 3, 2021.

FORWARD LOOKING EVENTS: The main events that will occur in future months this year and into 2021 are the following:

1. Continuation of the repairs of Flares C and D in order to maintain redundancy for flaring the methane gas from the landfill until a Gas Processing Plant can be

built (target date for all flare work to be complete December 31, 2020);

October, 2020: On Schedule

November, 2020: Repairs are completed. Testing is scheduled for December.

December, 2020:

Flare C was completed and fully tested and is now available for operation in lieu of Flare D, should Flare D require repairs or need to be taken off line for other reasons. The MCRC is pleased that we now have a redundant system in case there is an emergency with the gas collection system.

2. Continuation and completion of the Leachate Treatment Plant Modification (target completion in February 2021).

October, 2020: On Schedule

November, 2020: Continues on schedule.

December, 2020: The project continues to be on schedule

January, 2021: The project continues to be on schedule.

February, 2021:

As noted earlier in this report the month of February was brutal to the schedule for the completion of the LTP. The completion and commissioning date has been moved back to the middle of April due to over 19 missed days during the month due to the snow and rain events that halted construction on site. In addition, the impact that the storms had on delivery of materials and equipment has added to the delay.

March and April, 2021

As noted earlier in this report, the schedule for the completion of the LTP has been extended due to the delay caused by weather as well as the delays in receiving essential equipment due to the Covid-19 shut downs and delays caused thereby as it pertains to the fabrication and delivery of pumps and other parts, necessary to test and begin to operate the LTP, prior to discharging thru the Tinton Falls pump station and into the Township of Neptune Sewage Authority. The County anticipates that the plant will begin to discharge during the month of June, 2021.

3. Completion of the demolition of the gas processing plant utilized by GSF/Montauk (Target October 1, 2020)

September, 2020: Completed

October, 2020: Completed

4. Phase 4 continues to be under review by NJDEP. It is expected that DEP will be initializing this stage of their review in the coming months and will issue a Technical Notice of Deficiency (TNOD) for any issues that they note need to be reviewed and addressed. Once received, the County will respond as rapidly as possible depending on the significance of the issues raised by DEP.

September, 2020:

On September 10, 2020, the County received a Technical Notice of Deficiency (TNOD) from the NJ DEP in response to the report that the County filed on August 16, 2019 entitled "Amendments to the Solid Waste Facility Permit Renewal and Phase IV Expansion Major Modification." This report was filed with DEP in response to an earlier TNOD issued by DEP dated May 8, 2018. Essentially, the TNOD declares that the application is technically incomplete and provides the issues for which they are seeking further information. The County has 30 days from the date of the TNOD to provide a response to the issues raised.

The TNOD contained several very technical questions on calculations and questions on some relatively minor inconsistencies in submitted documents. Interestingly and importantly, the TNOD also contained the comments from the Borough of Tinton Falls raising questions regarding some issues with the landfill as well as concerns over the "lack of communication" between the County and the Borough. As discussed with the Borough Officials, it is this concern that is being addressed on an on-going basis, through these monthly reports.

As noted last month, the County has emphasized and embraced communication with the Borough and its citizens. The Freeholder Director sent, to anyone who expressed an interest, weekly updates as to projects and accomplishments taking place at the MCRC for over a year. It was during this period that it was vitally important to keep the public advised as to the steps that were being taken at the MCRC to mitigate and solve the issues that had been identified.

It was only when the pandemic became the priority and demanded that all essential personnel focus on safety and public health, due to the spread of COVID-19, that the weekly updates ceased to be issued. However, the MCRC continued to work on the issues identified and solved those problems over the last several months.

The County is proud of the accomplishments that have been made over the last 18 months and is pleased to resume the updates on a monthly basis in order to continue to keep communication lines open and keep the Borough Officials and their constituents up to date, regarding the events occurring at the MCRC.

October, 2020:

On October 14, 2020, the County supplied full responses to the NJ DEP answering the concerns raised in the TNOD that the County had received on September 10, 2020. The response contained full technical answers to the questions raised after the review by DEP as well as a commitment to continue to communicate, on a monthly basis, with the Township of Tinton Falls.

November, 2020:

DEP has yet to send any response to the County regarding the submission in response to the TNOD referred to above. No other changes in the status of the application for the Phase 4 expansion plan for the landfill.

December, 2020:

There has been no real change regarding DEP's review and response on the Phase 4 plan. It is believed that DEP has been hampered by COVID-19 employee protocols, as have other levels of government. However, we expect that before the end of the first quarter, DEP will provide the County with either feedback on the plans or with a permit to proceed with the construction.

January, 2021:

There is no change from the status in December, 2020.

February, 2021:

There is no change from the status in January, 2021.

March and April, 2021:

There is no change from the status in February, 2021.

4. Well Drilling Project:

The County is planning a well – drilling project that will start in early April and should be finished no later than the end of April. It will involve the drilling of approximately a total of 30 wells in both Phase 2 and Phase 3 of the landfill. As the wells are drilled, they will be treated with the Neutralene odor neutralizer in order to keep any possible odors from escaping from the landfill.

The County has had two years of experience with drilling wells after the previous vendor GSF/Montauk failed to drill any vertical wells for at least 5 years. During both of the previous well projects there have been no odor complaints, and it is not expected to be any different this year.

After the wells are drilled, they will be connected to both the Gas Collection System as well as the leachate collection system. They are necessary in order to maintain the collection systems and to assist with control of the methane gas in the landfill and the leachate that is generated from the decaying waste.

BOND ORDINANCES: On April 21, 2020 the Monmouth County Board of Chosen Freeholders passed a Bond Ordinance providing \$8 million in capital funds for the following authorized projects: various improvements at the Reclamation Center including but not limited to a) rebuilding Flare C; b) leachate seep improvements on the West Slope of Phase 3; (c) installation of wells; (d) improvements to the leachate plant; (e) installation of high density caps; (f) acquisition of equipment; and (g) the replacement of scales and removal of underground storage tanks.

As is evident from the previous description of activities at the MCRC, this Bond Ordinance has provided funding for these major projects.

OTHER ISSUES: The County is pleased that it has been able to stop the odors that were emanating from the landfill in late 2018 until May of 2019. The initial cause of the odors was thought to be a combination of factors which included leachate seeps, the slope repair (which opened up almost 11 acres of the landfill in order to reshape the slope), excessive rainfall and uncollected landfill gas. The County drilled 50 wells between March 4, 2019 and May 17, 2019 and connected them to the vacuum system that was in place from the collection system operated by GSF/Montauk Energy.

Within days, of the completion of this work, the odors disappeared. The drilling of the wells and connection to the vacuum reinforced the engineering opinion that there were excessive amounts of uncollected gas in the Phase 3 landfill.

After that connection was established, the number of odor complaints dropped significantly to the point that as of January, 2020, the complaints dropped to less than one per week. For the past eight months there have been virtually no complaints regarding odors or anything related to the MCRC.

There are other sources of odors within the borders of the Borough of Tinton Falls. One of those is the Benoit Solid Waste Landfill/Recycling facility, 615 Green Grove Road. That facility has recently received a letter from DEP in response to their application to renew their Class B Recycling Center General Approval. This caused a site visit from DEP and they found that the landfill closure and post closure plan had not been approved in 1989 when submitted. Therefore, the closure and post closure steps taken in compliance with that plan were not effective and resulted in several issues that concern DEP, including excessive emissions of methane gas from leaking well caps. This facility is located in the Wayside section of Tinton Falls, which has been the source of many complaints.

The County has been very effective in the remediation activities that it has taken over the last twenty-one (22) months. The MCRC has managed: the installation of an entirely new Landfill Gas Collection System (a multi-year project; that took only six (6) months to complete; the improvement in the process and effectiveness of applying daily cover as required; the grading of areas of the landfill designed to shed rainfall rather than allow it to sit and penetrate the landfill and overhauled Flare D to insure that it is operating properly while totally rebuilding Flare C for a backup.

The County is meeting all of the commitments that it made to the public, to DEP and to the Borough of Tinton Falls and the surrounding communities. It is the County's intention to continue to improve the operation of the landfill and return to the status as a good neighbor in Tinton Falls.

September, 2020: No additional comments.

October, 2020: No additional comments.

November, 2020: No additional comments.

December, 2020: No additional comments.

January, 2021: No additional comments.

February, 2021: No additional comments.

March and April, 2021: No additional comments.