FMC Report on Phosphine at FMC Pond 15S

Response to EPA Questions dated April 19, 2010

(Submitted April 26, 2010),

1.0 INTRODUCTION

Subsequent to an FMC submittal dated April 14, 2010, Carla Fisher – EPA Region 10 (email from Carla Fisher – EPA Region 10 to Barbara Ritchie – FMC Corporation, dated April 19, 2010) requested that FMC provide responses to a set of six questions pertaining to a phosphine industrial hygiene issue which has led to FMC's initiation of gas extraction from the perimeter piping at Pond 15S. The purpose of this report is to provide response to each of the six questions. Section 1 of this report presents general background information, not specific to the six questions, to provide a more complete understanding of the situation at Pond 15S. This report then provides a specific response to each of the EPA questions in separate sections, as listed below:

1. *What is the chronology? Provide dates and times as well as a description of all events associated with discovering and responding to the release.* FMC's response is provided in Section 2.0.

2. *What exactly is the suspected source(s) and the nature and extent of the release?* FMC's response is provided in Section 3.0.

3. *What actions did FMC take to respond? (Again, please include dates.) Describe current conditions and whether actions taken have been effective.* FMC's response is provided in Section 4.0.

4. *What additional actions are planned? Provide an estimate of how long FMC expects that gas extraction will be necessary.* FMC's response is provided in Section 5.0.

5. *Submit all data that have been collected.* FMC's response is provided in Section 6.0.

6. *Provide a calculation of the quantity of phosphine and any other constituent(s) released.* FMC's response is provided in Section 7.0.

1.1 GENERAL PHOSPHINE INFORMATION

Phosphine (PH3) is a product of the hydrolysis reaction of elemental phosphorus (P4) and water. Phosphine is also the reaction product of the decomposition of metal phosphides, such as aluminum or zinc phosphide. While small quantities of metal phosphides capable of decomposition at ambient conditions may exist within ponded wastes, the predominant

generation mechanism for PH3 generation within the RCRA ponds is believed to be through hydrolysis.

As PH3 is heavier than air, PH3 gas would be expected to travel horizontally in soils, unless a preferential pathway would allow for upward migration through the soil column. As PH3 travels through the soil, it would likely be reacting with both air in the pore spaces of the soil or soil constituents to convert to P2O5, phosphoric acid, and/or phosphate compounds. The Agency for Toxic Substances and Disease Registry (ATSDR) reports:

- In the air, PH3 will exist solely as a gas. Phosphine gas reacts with substances commonly found in the air. Half of the PH3 in the air degrades in about 1 day.
- When released to soil, PH3 is broken down very quickly. (http://www.atsdr.cdc.gov/tfacts177.html)

A presentation of the conceptual model of the PH3 release mechanism from a capped RCRA pond is presented in Section 3.2 of the draft *Pond 16S Post-Closure Plan* as submitted on April 15, 2010. The following are the key points of the RCRA pond conceptual model and potential PH3 release mechanism at Pond 15S:

- PH3 gas from the closed RCRA ponds is from reactions (primarily P4 hydrolysis) within the sediments contained within the pond.

- Initially, PH3 generated within the waste layer displaces air (being heavier than air) in the pore space of the cap fill materials. PH3 would be expected to react with the oxygen in the pore space until all the oxygen is consumed. Without oxygen, PH3 would then continue to accumulate and "fill" the pore spaces within the capped area, generally from the bottom up.

- When unsealed or opened, Temperature Monitoring Point (TMP) casings are the most direct route of PH3 release to the surface.

- The gap between the cap HDPE liner anchor trench and the pond PVC liner anchor trench provides a pathway for PH3 gas migration through soil/fill around the pond cap perimeter.

- PH3 gas in the pore space of the cap backfill material would likely react with oxygen captured in the pore space at the time the cap backfill material was placed. However, changes in barometric pressure may create pressure differentials that would allow the PH3 gas to move through paths of least resistance. Although PH3 gas is heavier than air, it will follow the path of least resistance as opposed to simply migrating downward.

1.2 GENERAL INDUSTRIAL HYGIENE PH3 MONITORING AT THE RCRA PONDS

As part of ongoing industrial hygiene monitoring at the site, PH3 monitoring is routinely conducted in the RCRA pond area. The *RCRA Pond Area Work Rules*, although not mandated by RCRA, were developed by FMC to assure worker protection and specify that the use of portable PH3 monitors is "task specific," i.e., a PH3 monitor shall be carried by any person performing work that might result in an exposure to PH3 gas above the OSHA PEL of 0.3 ppm. These work rules have been provided to EPA, e.g., as an attachment to the *Pond 16S Health and Safety Plan* provided as part of the Pond 16S UAO. Examples would be checks of temperature and pressure monitoring equipment and inspections of cap drainage lift stations. Safety reviews are conducted to determine if specific tasks require carrying a portable PH3 monitor. The following general rules are applied within the RCRA Pond Area:

- Any person required to carry a portable PH3 monitor will be provided hands-on training on the proper use of that monitor by their safety liaison or FMC representative.
- Any person performing work that might result in an exposure to PH3 above 0.5 ppm can only perform that work in the RCRA Pond Area with a "buddy."
- Phosphine monitor "trigger levels" are:
    - If readings show less than 0.3 ppm, the task may proceed without restrictions.
    - If readings indicate the PH3 level is between 0.3 ppm and less than 1.0 ppm, task work will be restricted to 5-hours maximum.
    - If readings attain 1.0 ppm and are sustained at this level (or higher) for longer than 5 minutes, exposed workers must relocate to positions upwind of the original task area. This upwind area must have sustained readings below 0.5 ppm.
    - If workers in the upwind area need to re-enter the original work area after relocation, the original task area must be checked prior to re-entry. When approaching the original task area, the area should not be re-entered if PH3 readings are at or above 0.5 ppm. The person taking any reading prior to re-entry should not proceed further into the area once his/her monitor shows a concentration of 0.5 ppm or higher level during the approach. Work in the original task area can resume when readings in the original task area have decreased to less than 0.3 ppm.

Historically, industrial hygiene monitoring for PH3 around the closed RCRA ponds has shown the following areas to be "suspected" of potential PH3 accumulation and exposures:

- TMPs;
- TMP enclosures;
- Any confined space near the RCRA ponds containing a "protected low point" where PH3 may accumulate. Typically LCDRS manholes do not contain PH3, but ET cap drainage lift stations have been shown to accumulate PH3 at Ponds 15S and 16S.

- Instrument panel enclosures. This is typically believed to be an area of PH3 accumulation as the enclosures are connected by conduit to the temperature transducers at the TMPs.

1.3 TMP INDUSTRIAL HYGIENE PH3 MONITORING AT POND 15S

Based upon the historical industrial hygiene monitoring for PH3 at the RCRA ponds, the TMPs have been recognized as potential areas for PH3 exposure. As indicated above, TMPs provide a direct pathway, via the temperature sensor wiring conduit, from the sludge layer within the RCRA pond, through the cap to the surface. While the TMPs were installed in accordance with the *RCRA Post Closure Plan* for each pond, the TMP design did not call for gas-tight connections, and therefore, flange gaskets were not originally installed. While the RCRA pond cover systems have not been "pressurized", fluctuations in ambient air pressure can create a pressure differential, causing movement of pond gas out through the TMP and thus creating an exposure pathway for PH3 gas.

On August 22, 2007 FMC provided EPA with the results of industrial hygiene area monitoring at the TMPs on RCRA ponds, in response to a request for data relating to gas generation at other RCRA ponds (email from Mark Masarik dated August 16, 2007). FMC provided recent industrial hygiene area monitoring data for 54 TMPs on all of the RCRA Ponds except Pond 8S which had previously been provided (email from Jim Sieverson to Mark Masarik dated August 22, 2007). In that email response, FMC reported specifically for Pond 15S that two of the 10 TMPs had detections of PH3 in ambient air outside the TMP enclosures (ranging from 0.03 to 0.2 ppm PH3) and that four of the TMPs had detections of PH3 within the TMP enclosures (ranging from 0.03 to 10 ppm PH3). FMC has continued to perform industrial hygiene monitoring since that time. The results of this industrial hygiene monitoring at Pond 15S are presented on Table 1.0.

Subsequently, FMC installed flange gaskets at 50 of the TMPs at all of the RCRA ponds to "seal" the TMPs to prevent releases of PH3. (The 8 TMPs at Pond 16S were sealed with silicone rather than gasketed as disassembly of the TMPs on Pond 16S was not feasible at that time.) In a letter dated August 22, 2008, FMC notified EPA of this work in response to a verbal request. EPA responded in a letter dated August 29, 2008 that EPA had "no objections" to the proposed installation of TMP flange gaskets. Flange gaskets were installed on the RCRA pond TMPs in 2008 and specifically on Pond 15S TMPs from September 18 - 23, 2008. This has proven to be very effective on all the RCRA ponds, and can been seen in the results of the Pond 15S TMP PH3 industrial hygiene area survey data as presented on Table 1.0. Note, however, the exposure pathway can be re-established any time the TMP is "opened," such as during calibration, repair, or replacement of TMP temperature sensors, which is required by the existing RCRA post-closure plans.

As such, PH3 exposures to personnel performing maintenance/calibration on TMPs occasionally have been high enough to require that the maintenance/calibration be postponed. This occurred at Pond 15S on the following occasions:

- On October 18, 2005;
- On September 28, 2006; and
- On March 22, 2007.

After the third attempt, maintenance/calibration of the temperature probes at the Pond 15S TMPs was suspended until a safe procedure could be developed. The TMP accessibility issue related to high PH3 at the TMPs was noted in the *Report of Site Visit At Former FMC Corporation on November 10-12, 2008* (BAH, 2008). This report also noted that the temperature probes on Pond 15S were all calibrated in September 2008 following installation of the TMP gaskets in September 2008 and improved temperature probe maintenance/calibration procedures. The Pond 15S TMP temperature probes have been calibrated annually since that time.

1.4 CERCLA EMERGENCY RELEASE NOTIFICATION FOR PH3

CERCLA Sections 103 and 304 require release reporting of hazardous substances and extremely hazardous substances, respectively. Phosphine is listed as both a hazardous substance and an extremely hazardous substance with a reportable quantity of 100 pounds per 24 hours. FMC has performed calculations based upon the TMP surveys at all the RCRA ponds. These calculations show the release of PH3 to ambient air from all the TMPs collectively to be less than 1 pound per day, using very conservative assumptions. Taking into account the recent industrial hygiene monitoring for PH3 at Pond 15S, the tailgas discharge from round-the-clock operation of the GETS and two GES units, and releases from all TMPs, total PH3 releases in a 24-hour period is still estimated to be at least an order of magnitude below the reportable quantity of 100 pounds.

1.5 POND 15S COMPARISON TO POND 16S

Most of the attention to PH3 generation and control in recent years has been on Pond 16S. Pond 16S contains the most heterogeneous combination of waste among all the RCRA ponds at the facility. The high levels of PH3 gas at Pond 16S can be attributed to the fact that Pond 16S contains untreated precipitator slurry, precipitator slurry treated with lime (both off-specification and on-specification non-hazardous slurry assurance project [NOSAP] treated precipitator slurry), phossy water primarily from the furnace area, furnace area scrubber water blowdown, and miscellaneous phossy wastes introduced at the former decontamination pad area near the northeastern corner of Pond 16S. Lime-treated precipitator slurry was alkaline and typically had a pH of 10.5 to 12 while phossy water typically had a pH of 6 to 7. Although these wastes were segregated to a large degree, both horizontally and vertically, mixing of these waste streams occurred during construction of a center dike that was needed to facilitate cap construction. The mixing of these waste streams created conditions favorable to the generation of PH3 gas, i.e., mixing of high and neutral pH wastes containing P4.

However, Pond 15S and Pond 16S do have similarities including the following:

- Pond 15S and Pond 16S have the largest final volume of waste under their closure caps compared to the other RCRA ponds (~140 acre-feet each vs. 17-44 acre feet in each of the other ponds);

- A center partition dike was constructed at both ponds to accomplish the initial fill and place the temporary cover. The same procedures were used for installation of the partition dikes and at both ponds these were constructed of coarse slag. Installation of these dikes resulted in displacement and incidental mixing of pond solids to the full depth of the pond; and
- Both of these ponds have the least volume of initial fill (sand and slag) above the waste zone and below the elevation of the cap liner components. Thus, they have the least volume of pore space within the fill above the waste zone.

Phosphine generation in Pond 16S, where alkaline materials were co-disposed with elemental phosphorus, had PH3 accumulate to a point that exceeded the volume of pore space and air (oxygen) in the fill in less than two years after the final cap was installed in 2004. At Pond 15S, neutral materials were co-disposed with the elemental phosphorus. Thus more than five years after installation of the final cap at that pond, PH3 accumulation in the fill beneath the cap may be approaching a level where available pore volume below the elevation of the top of the liner is insufficient for PH3 sorption and/or oxidation to phosphorus compounds (e.g., phosphoric acid). Conditions therefore may be developing at Pond 15S where PH3 is no longer being sorbed and/or oxidized within the fill beneath the cap and may find a preferential pathway for release in the gap between the cap and the liner in the northwest corner of that pond.

Each RCRA pond is known to be different in the waste materials accumulated and there also are differences (both major and minor) in the RCRA cover systems. While Pond 16S is known to have accumulated high levels of PH3 (as high as 300,000 ppm) under the cap, releases from the soil to ambient air around the perimeter of the cap (limit of final cover [LFC]) were not detected. Monitoring of soil gas within the Pond 16S LFC at a depth of 18 to 24 inches did show highly variable soil gas concentrations of PH3 (0 to 862 ppm), although a preferential pathway through soil around the perimeter of Pond 16S was not evident. While Pond 15S and 16S have similar cap designs, minor differences in the construction of these caps appear to have resulted in a preferential PH3 pathway from the perimeter of the cap to the ambient air at Pond 15S. This pathway was discovered as being significant during routine industrial hygiene monitoring as discussed below.

2.0 CHRONOLOGY OF EVENTS CONCERNING PH3 AT POND 15S

EPA Request #1. *What is the chronology? Provide dates and times as well as a description of all events associated with discovering and responding to the release.*

Consistent with the conceptual model and potential PH3 release mechanism as described in Section 1.1 above, there have been a series of events associated with conditions at Pond 15S that have led FMC to initiate gas extraction from the perimeter piping at Pond 15S. These are described in the following subsections.

2.1 INSTRUMENT PANEL CORROSION AT POND 15S

Construction of the Pond 15S cap was completed in November 2004 and the construction certification was submitted in January 2005. As early as July 2005, corrosion issues were identified within the cap temperature and pressure monitoring instrument panel at the northwest corner of Pond 15S. This corrosion appeared to be as result of phosphoric acid attack (a reaction product of PH3 and oxygen). Similar corrosion also was identified at the ET cap drainage control panel at the Northeast corner of Pond 15S, although not as severe. On June 23, 2006, all of the instruments were changed out at the temperature/pressure instrument panel as part of the ongoing maintenance of the Pond 15S post-closure monitoring system. Temperature and pressure instrument panel corrosion has also been observed at Pond 16S. This problem is generally believed to be due to the fact that the instrument panel is directly connected by electrical conduits to all of the pond TMPs (necessary to run the TMP temperature sensor wiring to the instrument panel) thus providing a direct pathway for PH3 from the TMP to the instrument panel.

The corrosion problem at Pond 15S temperature/pressure instrument panel re-appeared in 2009. On three occasions in 2009 (March 2, June 16, and July 7), the electrician and/or technicians noted in their log that PH3 was detected at levels > 1.0 ppm upon opening the temperature/pressure instrument panel, thus requiring the electrician/technician to leave the area. To minimize this industrial hygiene exposure, the electrician installed gas-sealing fittings on the temperature/pressure instrument panel on October 21 through November 10, 2009, which are designed to seal the conduit to prevent transport of gases. This appeared to reduce the conduit pathway and PH3 exposure from within the temperature and pressure instrument panel. However, PH3 levels above 1.0 ppm were occasionally observed in the vicinity of the temperature/pressure instrument panel beginning in late 2009 as result of a repair to the ET cap drainpipe as discussed below.

2.2 ET CAP DRAINPIPE REPAIR AT POND 15S

As summarized in the transmittal letter of April 14, 2010 and detailed in the *Cap Drainage Lift Station and Piping Maintenance Work Plan – April 2010* attached to that transmittal letter, FMC has been conducting post-closure monitoring and maintenance of the ET cap drainage system at Pond 15S as required under the current post-closure plan. As shown on Figure 1, there are two ET cap drainage lift stations (cap drainage collection sumps) at Pond 15S. Lift station LS-01 is at the northwest corner of the pond and lift station LS-02 is at the northeast corner of the pond. While no cap drainage water has historically been observed in either of these lift stations, they were both inspected as part of an overall RCRA pond cap drainage system evaluation. A camera inspection of the drainpipe from the Pond 15S ET cap drainage collection pipe to the LS-01 lift station showed that the drainpipe was disconnected underground approximately 10 feet from the lift station. A cross-section of Pond 15S cap showing the perimeter cap drainage collection pipe, the underground pipe connecting to LS-01, and the lift station LS-01 is shown on Figure 2.

This drainpipe (about 2 ft below ground surface) was excavated and repaired on October 13, 2009. While this repair was deemed a success in repairing the ET cap drainage system, it had the unintended consequence of reestablishing a potential direct pathway for PH3 migration from the

Pond 15S cap perimeter to the LS-01 lift station. After the drainpipe repair, persons entering the area downwind of LS-01 would at times trigger their personnel industrial hygiene PH3 monitor alarm (set to alarm at 0.3 ppm). Further monitoring indicated levels of PH3 above 1.0 ppm, which required the electrician/technician to leave the area on the following dates noted in his log book:

- November 2, 2009;
- November 23, 2009;
- November 27, 2009;
- December 22, 2009;

An informal investigation was conducted (using hand-held PH3 monitors in which the source of PH3 was monitored but no "data" were recorded). This determined that the source of the PH3 was the Pond 15S LS-01 lift station and fill material (primarily slag) around the lift station.

This informal investigation led to the following conclusions:

- Phosphine was migrating through the gap between the Pond 15S pond liner anchor trench and the cap HDPE liner anchor trench in the subsurface soil/fill.
- The PH3 gas, following the path of least resistance (through fill material used in cap construction) enters into the ET cap drainage piping (a 6-inch perforated pipe running around the perimeter of the ET cap immediately above the HDPE cap liner). The PH3 gas then migrated through the drainpipe to the LS-01 lift station.
- PH3 was not detected near the LS-02 lift station or anywhere on the south or east sides of Pond 15S. Thus, it was determined that the preferential PH3 pathway was to the LS-01 lift station, indicating that migration of PH3 from the Pond 15S cap perimeter was at the northwest corner of the pond, where significantly larger amounts of coarse fill were placed in pond construction and closure.

As a temporary measure, an attempt was made to seal the LS-01 lift station by plugging the lift station outlet pipe (used to pump out any accumulated water) and the lift station overflow pipe on December 1, 2009. This proved to be ineffective at controlling the release of PH3 from the lift station.

2.3 EVACUATION OF NW CORNER CAP DRAINAGE LIFT STATION USING MOBILE GES

As the source of the industrial hygiene exposure to employees was determined to be the Pond 15S LS-01 lift station, the first approach was to evacuate the LS-01 lift station. Typically, the approach to dealing with a confined space (such as a tank or sump) containing hazardous gas(es) at levels that pose an industrial hygiene threat to workers is to use a fan to displace the gas(es) with fresh air. However, due to the desire to not discharge the PH3 out of the sump into the ambient air, a decision was made to use the mobile gas extraction system (GES) to evacuate and treat the PH3 gas from LS-01. It was presumed that PH3 had collected in the LS-01 lift station (a low spot) and that this evacuation would only take a matter of days to reduce PH3 levels in the LS-01 lift station to levels that would no longer pose an industrial hygiene threat.

Although LS-02 had not been identified as a significant PH3 source, the mobile GES was put initially into service evacuating gas from LS-02, the lift station at the southeastern corner of Pond 15S on December 22, 2009. This location was selected because power was readily available near LS-02 and LS-02 is connected, via the ET cap drainage system piping, to LS-01. It was believed that evacuation of LS-02 would also evacuate LS-01 and the entire ET cap drainage system. The GES unit was operated at LS-02 for six days (December 22 to December 28) for 24 hours per day, 7 days per week (24/7) using operators from the Pond 16S GETS operation. The GES target inlet PH3 concentration was set at 200 ppm, based upon previous experience with similar GES units. However, the evacuation of LS-02 proved to be ineffective at reducing PH3 levels at LS-01 as the PH3 extraction rates from LS-02 were very low (target inlet PH3 concentrations of 200 ppm could not be achieved) and PH3 concentrations near LS-01 were not reduced. Therefore, the mobile system was hooked up directly to LS-01 using 700 feet of 2-inch hose and direct evacuation of LS-01 began on December 28, 2009. The mobile GES was operated evacuating LS-01 with operators on a 24/7 schedule until January 6, 2010, at which time the GETS operation at Pond 16S went to 12/7 operation. This meant that operators were no longer available around-the-clock. At that time, the GES at LS-01 was still operated 24/7, but the target inlet PH3 concentration was reduced from 200 ppm to 100 ppm during the nightshift when operators were not present. The mobile GES unit was used to evacuate LS-01 from December 28, 2009 until April 13, 2010.

During the LS-02 and subsequent LS-01 evacuation, normal GES operating data was collected during the evacuation operation, including the following parameters as presented in Table 2.0:

- Date;
- Time;
- Location;
- Temperature;
- Pressure;
- Inlet PH3 concentration;
- Outlet PH3 concentration;
- Inlet and total gas flowrate; and
- Calculated source gas (from LS-01) concentration.

Using the inlet gas PH3 concentration and the dilution air rates, the source gas PH3 concentration (within LS-01) were calculated and have ranged from 0 to 23,000 ppm, and were very inconsistent. In an attempt to determine if the evacuation of LS-01 was working to reduce industrial hygiene exposures to PH3 near LS-01, daily industrial hygiene area monitoring began on February 25, 2010. This data is included on Table 3.0. This industrial hygiene area monitoring data, along with the calculated source gas (gas within LS-01) PH3 concentration indicated that insufficient reduction in PH3 concentrations was being achieved. This led to the conclusion that commencing gas extraction from the perimeter piping around Pond 15S was warranted to better control the potential for industrial hygiene exposures. As such, EPA was notified in the letter dated April 14, 2010 and gas extraction from the perimeter piping at Pond 15S was initiated on April 16, 2010 as discussed below.

2.4 GAS EXTRACTION AND TREATMENT FROM POND 15S PERIMETER PIPING

Section 10.8 of the *Pond 15S Post-Closure Plan* anticipated that PH3 generation could occur within the Pond 15S wastes. The post-closure plan states "*To ensure the detection of reactions within the waste that could impair cap integrity, a monitoring system designed to monitor temperature and pressure will be operated.*" The post-closure plan also stipulates that a "*catalytic adsorptive carbon treatment system would be installed…"* to extract and treat gas from the perimeter piping system. It should be noted that there has been no indication of temperature and/or pressure changes, beyond those associated with normal ambient fluctuations, as measured by the temperature and pressure monitoring system at Pond 15S. Temperature and pressure triggers for Pond 15S have not been exceeded. This is consistent with what has been experienced at Pond 16S, i.e., the temperature and pressure system is incapable of detecting the generation or accumulation of PH3 within the Pond 15S cover system. It should also be noted that there is no indication that the presence of PH3 is a threat to the Pond 15S cap integrity. Although extraction and treatment of PH3 from the Pond 15S perimeter piping as described in the *Pond 15S Post-Closure Plan* has not been triggered and is not necessary to protect the cap integrity, taking these steps is considered to be the best approach for addressing the PH3 industrial hygiene issue by reducing the PH3 at the primary source, i.e., from within the Pond 15S cover system.

The two fixed GES units (originally used at Pond 16S) were moved to Pond 15S and began extraction of pond gas from the perimeter piping on April 16, 2010. The two GES units are connected to the east perimeter extraction point of the perimeter piping, thus converting the pressure monitoring system to a gas collection system, consistent with Section 7.1.4.1 of the *Pond 15S Closure Plan*. Both GES units are being operated 24/7 with around-the-clock operator presence, with a target inlet PH3 concentration of 300 ppm. Again, normal GES operating data are being collected on both GES units during the perimeter piping gas extraction/treatment operation, including the parameters as identified in Section 2.3 above. This operational data, collected through April 23, is presented in Tables 4.1 (GES unit #1) and 4.2 (GES unit #2). The calculated PH3 concentration in the Pond 15S perimeter piping thus far has averaged approximately 50,000 ppm. Monitoring of PH3 concentrations in the ambient air around LS-01 is also continuing. It is too early in the extraction process to see a reduction in PH3 concentrations, but based on the experience at Pond 16S these steps are expected to reduce these levels.

3.0 SUSPECTED SOURCE

EPA Request #2. *What exactly is the suspected source(s) and the nature and extent of the release?*

Based upon the industrial hygiene monitoring to date at Pond 15S, FMC is confident that the source of the PH3 gas at Pond 15S is the waste within Pond 15S. Conditions at Pond 15S appear to have developed where PH3, following a preferential pathway through the gap between the cap

and the liner at the northwest corner of that pond, has migrated to the ET cap drainage lift station LS-01.

4.0 ACTIONS TO DATE

EPA Request #3. *What actions did FMC take to respond? (Again, please include dates.) Describe current conditions and whether actions taken have been effective.*

The actions that FMC has taken are described in Sections 2.1 through 2.4 above. Current conditions are that FMC is operating two 55-gallon GES units, (containing Calgon activated carbon). Both GES units are currently being operated 24/7, with a target GES inlet PH3 concentration of 300 ppm. GES operational parameters are being monitored. It is too early in the extraction process to discern any reduction in PH3 concentrations around LS-01. However, FMC's experience is that the GESs will be effective at reducing PH3 concentrations at Pond 15S.

5.0 ADDITIONAL PLANNED ACTIONS

EPA Request #4. *What additional actions are planned? Provide an estimate of how long FMC expects that gas extraction will be necessary.*

As described above, FMC has initiated gas extraction from Pond 15S perimeter piping using two existing GES units on April 16, 2010. The duration of the perimeter gas extraction will be a function of the rate of PH3 extraction from the perimeter piping and the rate of PH3 generation from the wastes within Pond 15S, i.e., the extraction rate must exceed the generation rate for a period long enough to reduce the PH3 concentration at the perimeter of the pond. The two current GES units, extracting 24/7, are currently removing approximately 5.5 pounds of PH3 per day. Given the short duration of extraction to date, a valid generation rate cannot be estimated. At the current extraction rate, it is estimated to take 80 days to achieve a complete gas exchange from the pore space of fill materials within the Pond 15S cover system. At that time, a credible estimation of generation rate will be possible.

FMC is in the process of building two additional GES units which could be deployed on Pond 15S perimeter piping system if additional extraction is deemed necessary. This would double the PH3 extraction rate and shorten the duration of extraction.

One additional planned action is to extend the downwind ambient air monitoring for PH3 at the fenceline. As described in Section 3.0 of the *Pond 16S Monitoring and Reporting Plan* (as prepared under the Pond 16S UAO), FMC has been performing daily ambient air monitoring downwind of Pond 16S at the fenceline (i.e., at the northern property boundary) along Highway 30. The purpose of this monitoring is to determine if any detectable levels of PH3 are present that could be leaving the FMC property as result of releases of PH3 from closed Pond 16S or the GETS being operated at Pond 16S. This monitoring has been performed daily since operation of the GETS began. To date, no PH3 has been detected in the ambient air at the fenceline downwind of Pond 16S. As of April 22, 2010, FMC has extended the path of this daily ambient air monitoring for PH3 so as to also detect any potential PH3 releases from Pond 15S in ambient

air at the fenceline. All procedures prescribed in the *Pond 16S Monitoring and Reporting Plan* and associated *Pond 16S Quality Assurance Project Plan* will be followed for this additional ambient air monitoring. Although only two days of this additional monitoring along an extended length of the fenceline have been completed so far, no PH3 has been detected in the ambient air at the fenceline downwind of Pond 15S.

6.0 DATA COLLECTED

EPA Request #5. *Submit all data that have been collected.*

The relevant, recorded data that have been collected to date (and as discussed above) are presented in the following tables:

Table 1.0 – Historic TMP Survey Data from Pond 15S

Table 2.0 – Operational Data from GES Evacuation of LS-02 and LS-01

Table 3.0 – Industrial hygiene PH3 Monitoring Around LS-01

Table 4.1 – Operational Data from GES Unit #1 - Pond 15S Perimeter Piping

Table 4.2 – Operational Data from GES Unit #2 - Pond 15S Perimeter Piping

7.0 CALCULATION OF QUANTITY OF PH3 "RELEASE"

EPA Request #6. *Provide a calculation of the quantity of phosphine and any other constituent(s) released.*

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As discussed in Section 1.4, FMC has estimated site wide PH3 releases to be at least an order of magnitude below the CERCLA reportable quantity, using a set of very conservative assumptions. The accuracy of these estimates can be "ground truthed" through an examination of the PH3 generation rate at Pond 16S of 4 lbs/day (based upon current data generated as part of the Pond 16S UAO). Clearly, no more PH3 can be released than is generated, and as Pond 15S generation rates are clearly below that at Pond 16S (as indicated in Section 1.5) above, FMC's engineering estimates of a maximum site wide release of much less than10 lbs/day are conservative.

As part of the gas characterization at Pond 16S under the Pond 16S UAO, FMC did an extensive review of historical information (both from the production process and the RCRA ponds) and sampling of TMPs for other "gases of potential concern (GOPC)" within the closed pond. This analysis is presented in Section 1.2 of the *Pond 16S Gas Characterization and Ambient Air Monitoring Work Plans – May 2007* and the TMP sampling results are presented in the *Pond 16S Gas Characterization Report – July 2007*. In summary, while trace amounts of hydrogen

sulfide, hydrogen cyanide, sulfur dioxide, hydrogen fluoride, and radon were detected within Pond 16S, all of these GOPCs were far below a level of concern. FMC has no knowledge, data, or suspicion that any of the GOPCs would be present at levels significantly different within Pond 15S. Furthermore, any releases of these GOPCs are likely far below detectable levels, and thus far below CERCLA reportable quantities.

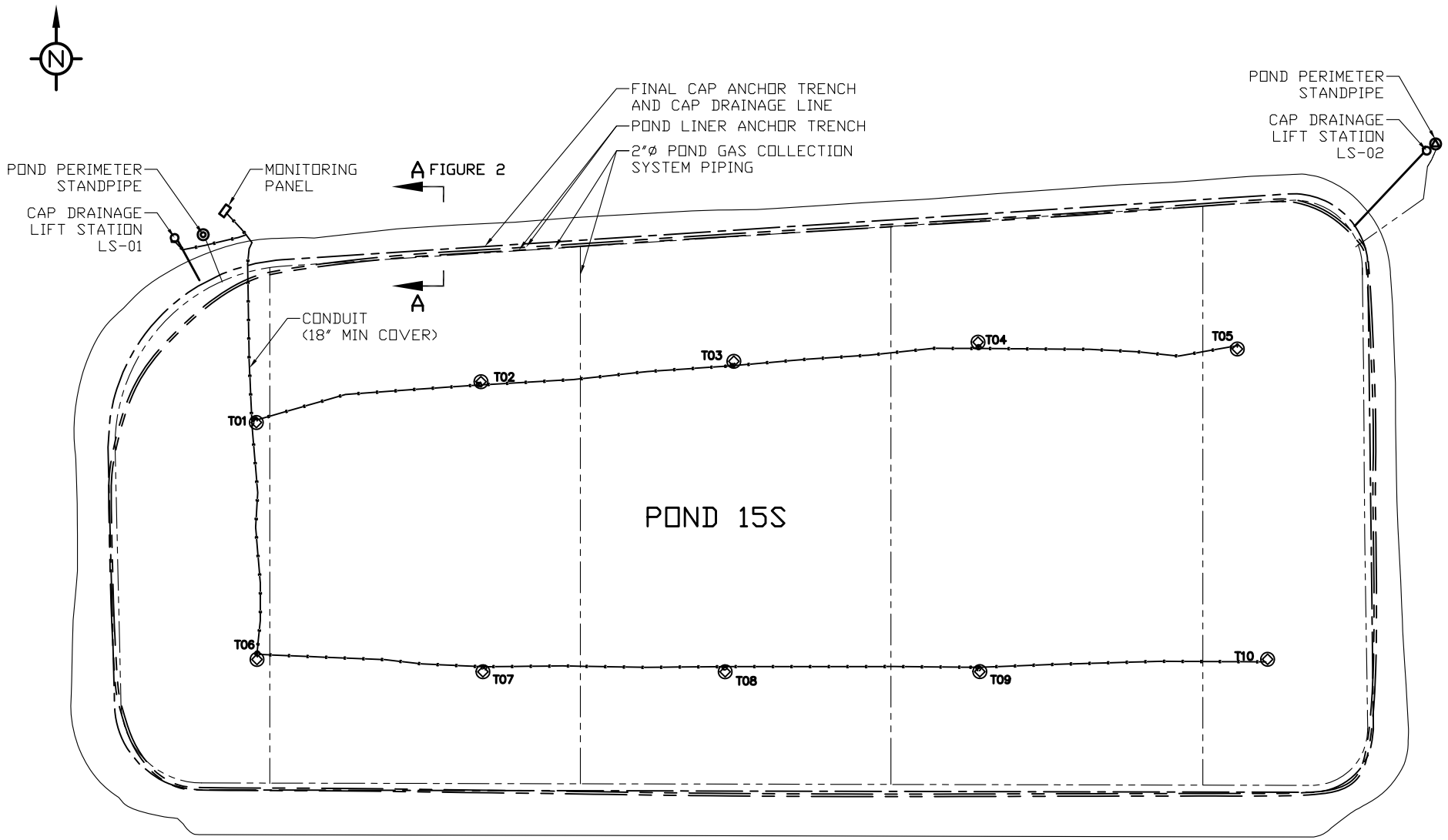
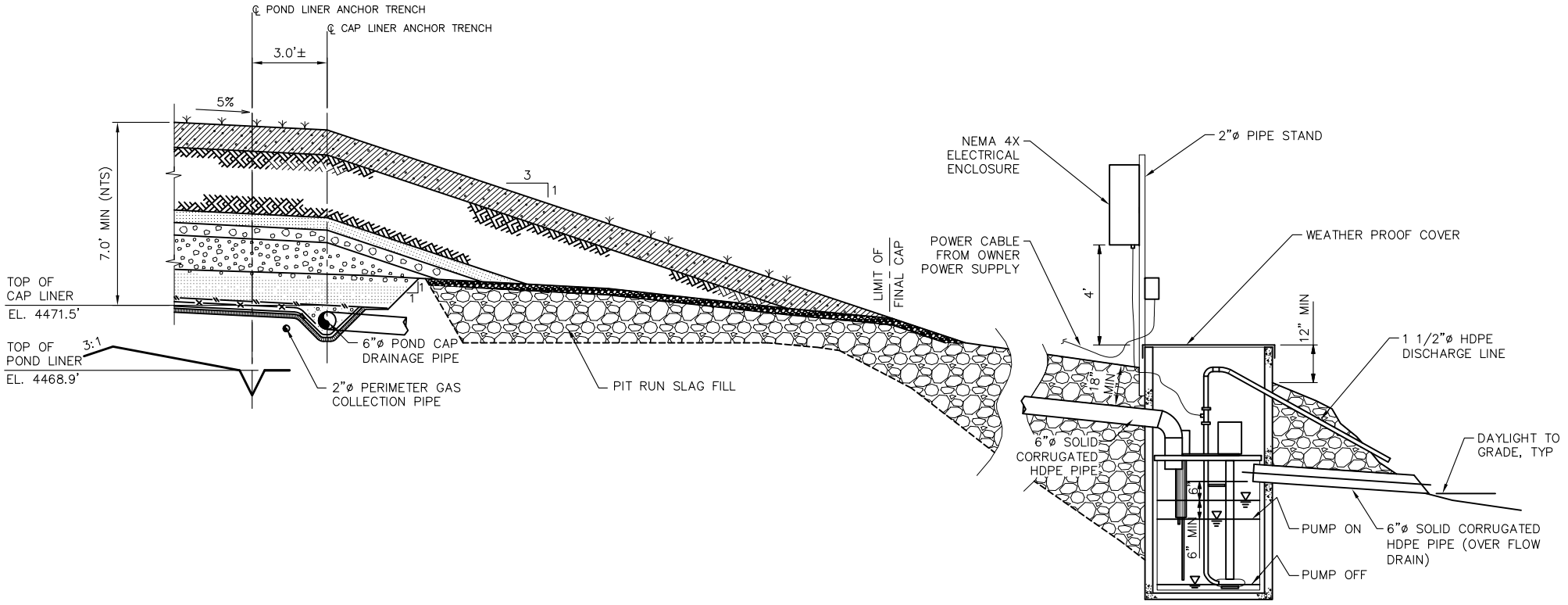


FIGURE 1

POND 15S
POND GAS COLLECTION SYSTEM



A – A
1 : 6

FIGURE 2

POND 15S
POND CAP CROSS SECTION

Table 1.0 Historic TMP IH Survey data from Pond 15S

Pond 15S

DATE	TMP 1						TMP 2						TMP 3						TMP 4					
	TMP ENCLOSURE PERIMETER (Outside of TMP)			INSIDE TMP ENCLOSURE			TMP ENCLOSURE PERIMETER (Outside of TMP)			INSIDE TMP ENCLOSURE			TMP ENCLOSURE PERIMETER (Outside of TMP)			INSIDE TMP ENCLOSURE			TMP ENCLOSURE PERIMETER (Outside of TMP)			INSIDE TMP ENCLOSURE		
	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION
4/13/2007	0.00	0.00			0.11		0.00	0.00			0.00		0.00	0.00			0.00		0.00	0.00			0.00	
10/16/2007	0.18	0.24	Ground	0.55	0.98		0.04	0.04	Pipe Hole	0.03	0.08		0.02	0.02	Ground	0.00	0.00		0.00	0.00		0.00	0.00	
7/7/2008	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
9/25/2008	0.50	0.80	Ground	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
1/29/2009	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
3/18/2009	0.02	0.09	Ground	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
6/26/2009	0.05	0.12	Ground	0.00	0.00		0.00	0.00		1.22	2.80	Flange	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
9/16/2009	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
12/3/2009	1.73	2.48	Ground [2]	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.11	0.13	Ground	0.00	0.00	
3/16/2010	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	

Pond 15S

DATE	TMP 5						TMP 6						TMP 7						TMP 8					
	TMP ENCLOSURE PERIMETER (Outside of TMP)			INSIDE TMP ENCLOSURE			TMP ENCLOSURE PERIMETER (Outside of TMP)			INSIDE TMP ENCLOSURE			TMP ENCLOSURE PERIMETER (Outside of TMP)			INSIDE TMP ENCLOSURE			TMP ENCLOSURE PERIMETER (Outside of TMP)			INSIDE TMP ENCLOSURE		
	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION
4/13/2007	0.00	0.02			0.06		0.16	0.28		1.20	1.37		0.03	0.09			0.03		0.00	0.00			0.00	
10/16/2007	0.00	0.02	Pipe Hole	0.01	0.03		0.47	0.94	Bottom	0.56	0.87		0.41	0.65	Ground	0.04	0.05		0.02	0.16	Ground	0.00	0.03	
7/7/2008	0.00	0.00		0.00	0.00		0.16	0.27	Pipe Hole	0.33	0.62		0.14	0.25	Ground	0.00	0.00		0.00	0.00		0.00	0.00	
9/25/2008	0.00	0.00		0.00	0.00		0.03	0.05	Ground	0.00	0.00		0.05	0.08	Ground	0.00	0.00		0.00	0.00		0.00	0.00	
1/29/2009	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		9.10	14.80		0.00	0.00		5.75	11.00	
3/18/2009	0.02	0.03	Ground	0.00	0.00		0.03	0.03	Ground	0.00	0.00		0.08	0.90	Ground	0.00	0.00		0.10	0.14	Ground	0.00	0.00	
6/26/2009	0.03	0.04	Ground	0.00	0.00		0.00	0.00		0.18	0.48	Flange	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
9/16/2009	0.00	0.00		0.00	0.00		0.00	0.00	Flange [1]	0.71	1.99	Flange	0.25	0.38	Ground [2]	0.08	0.24	Flange	0.22	0.34	Ground [2]	0.00	0.00	
12/3/2009	0.00	0.00		0.41	2.08	Flange	0.00	0.00		0.00	0.00		0.52	1.33	Ground	0.80	5.37	Flange	0.46	1.92	Ground [2]	0.00	0.00	
3/16/2010	0.00	0.00		0.00	0.00		0.12	0.60	Ground [2]	0.00	0.00		0.06	0.07	Ground	0.00	0.00		0.11	0.16	Ground [2]	0.00	0.00	

Pond 15S

DATE	TMP 9						TMP 10					
	TMP ENCLOSURE PERIMETER (Outside of TMP)			INSIDE TMP ENCLOSURE			TMP ENCLOSURE PERIMETER (Outside of TMP)			INSIDE TMP ENCLOSURE		
	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION	NOMINAL	MAX.	LOCATION
4/13/2007	0.00	0.00			0.00			0.20			0.16	
10/16/2007	1.27	2.35	Ground	0.13	0.13		0.27	0.70	Bottom	1.10	4.41	
7/7/2008	0.00	0.00		0.00	0.00		0.01	0.03	Ground	0.00	0.00	
9/25/2008	0.74	1.14	Ground	0.00	0.00		0.00	0.00		0.00	0.00	
1/29/2009	0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
3/18/2009	1.00	2.78	Ground	0.00	0.00		0.00	0.00		0.00	0.00	
6/26/2009	0.88	1.50	Ground	0.00	0.00		0.00	0.00		0.00	0.00	
9/16/2009	0.05	0.10	Ground	0.00	0.00		0.00	0.00		0.00	0.00	
12/3/2009	27	36	Ground [2]	0.00	0.00		0.00	0.00		0.00	0.00	
3/16/2010	0.45	1.89	Ground [2]	0.00	0.00		0.00	0.20		0.00	0.00	

Foot Notes: 1. PH3 Readings were resurveyed on 11/19/09 after flanges were tightened.
2. PH3 was found on top of the soil around concrete base.

General Notes: 1. PH3 measured using hand-held electrochemical sensors (0.00 to 20.0 ppm and 0.0 to 1000 ppm)
2. PH3 readings are an "eyeball" average as the monitor was moved along the outside perimeter of a TMP enclosure at existing openings and around the seam of the removable top or within a TMP enclosure.
3. Readings are not intended to be interpreted as having 3 or 4 significant figures. Excel formatting of the readings implies more than actual significant figures.

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
12/23/09	8:00	East Overflow	22	10	30	23	84	49	0	84	17	0	77	0	0	1.54	10.91	61.05	0
	10:00	East Overflow	22	12	30	23	82	49	0	84	17	0	76	0	0	1.53	11.01	60.91	0
	12:00	East Overflow	22	12	30	22	80	49	0	83	17	0	76	0	0	1.51	11.01	60.51	0
	14:00	East Overflow	23	12	30	24	90	53	0	87	17	0	79	0	0	1.53	11.00	60.74	0
	16:00	East Overflow	23	12	30	24	85	57	0	90	17	0	82	0	0	1.52	11.00	60.38	0
	18:00	East Overflow	23	12	30	24	85	58	0.3	93	17	0	85	0	0	1.52	11.00	60.21	2
	20:00	East Overflow	23	12	30	23	100	50	0.03	98	17	0	91	0	0	1.42	11.00	57.88	0
	22:00	East Overflow	23	12	30	24	110	50	0.2	106	18	0.2	98	0	0	1.56	11.00	60.28	1
12/24/09	0:00	East Overflow	23	12	30	24	107	48	0	102	18	0	96	0	0	1.53	11.00	59.81	0
	2:00	East Overflow	23	12	29	23	100	48	5.15	103	18	0	98	0	0	1.55	10.83	60.09	29
	4:00	East Overflow	22	12	29	22	95	50	0.65	97	18	0	92	0	0	1.54	10.84	60.22	4
	6:00	East Overflow	22	12	30	22	87	50	0	94	18	0	90	0	0	1.54	11.01	60.33	0
	8:00	East Overflow	21	12	30	21	85	51	0	89	17	0.00	83	0	0.00	1.52	11.02	60.32	0
	10:00	East Overflow	21	12	30	21	84	49	0	87	17	0.00	80	0	0.00	1.54	11.02	60.88	0
	12:00	East Overflow	22	12	30	23	87	51	0	88	18	0.00	81	0	0.00	1.55	11.01	61.03	0
	14:00	East Overflow	26	12	30	26	100	48	0.18	94	17	0.03	86	0	0.00	1.37	10.96	57.11	1
	16:00	East Overflow	26	12	30	30	105	49	0.75	99	17	0.00	89	0	0.00	1.4	10.96	57.57	4
	18:00	East Overflow	20	12	30	21	110	51	2.9	105	18	0.03	99	0	0.00	1.47	11.03	58.47	15
	20:00	East Overflow	21	12	30	22	108	49	15.7	109	18	0.00	106	0	0.00	1.44	11.02	57.51	82
	22:00	East Overflow	21	12	29	22	110	51	16.2	109	18	0.00	104	0	0.00	1.44	10.86	57.61	86
12/25/09	0:00	East Overflow	20	12	29	21	108	51	15.7	107	18	0.00	103	0	0.00	1.45	10.86	57.86	84
	2:00	East Overflow	14	10	29	18	104	52	19.5	103	18	0.00	98	0	0.00	1.46	10.97	58.32	104
	4:00	East Overflow	17	10	29	18	107	50	9.8	103	18	0.00	101	0	0.00	1.45	10.94	57.96	52
	6:00	East Overflow	19	9	29	20	108	51	0.32	107	18	0.00	101	0	0.00	1.45	10.93	57.96	2
	8:00	East Overflow	20	10	30	20	110	52	23	105	18	0.00	103	1	0.00	1.44	11.07	57.66	120
	10:00	East Overflow	22	10	29	20	95	50	7.25	98	18	0.00	98	1	0.00	1.4	10.88	57.11	38
	12:00	East Overflow	24	9	29	22	110	51	0.45	102	18	0.00	93	1	0.00	1.4	10.87	57.36	2
	14:00	East Overflow	23	9	29	24	110	51	0.32	102	18	0.00	94	1	1.00	1.39	10.88	57.11	2
	16:00	East Overflow	23	9	32	34	110	52	0.3	105	18	0.00	101	1	0.00	1.44	11.39	57.76	2
	18:00	East Overflow	24	9	28	32	110	52	6.1	106	18	0.00	104	1	0.00	1.43	10.70	57.41	33
	20:00	East Overflow	21	9	27	17	108	52	0.21	106	18	0.00	104	1	0.00	1.42	10.56	57.21	1
	22:00	East Overflow	20	9	28	20	108	53	0.17	104	17	0.00	98	1	0.00	1.42	10.74	57.51	1
12/26/09	0:00	East Overflow	18	9	28	22	105	54	13.2	103	18	0.00	100	1	0.00	1.43	10.77	57.61	71
	2:00	East Overflow	16	9	28	20	105	50	0.21	100	18	0.00	96	1	0.00	1.42	10.79	57.62	1
	4:00	East Overflow	17	9	28	22	105	54	1.46	102	18	0.00	98	1	0.00	1.42	10.78	57.51	8
	6:00	East Overflow	16	9	28	20	102	53	2.12	100	18	0.00	95	1	0.00	1.42	10.79	57.67	11
	8:00	East Overflow	18	9	28	22	110	52	9	105	18	0.00	99	0	0.00	1.43	10.77	57.66	48
	10:00	East Overflow	18	9	28	20	115	54	4	104	18	0.00	101	0	0.00	1.14	10.77	51.39	19
	12:00	East Overflow	22	9	28	22	115	63	4	102	18	0.00	101	0	0.00	1.41	10.72	57.16	21
	14:00	East Overflow	26	9	28	22	115	64	4	107	18	0.00	102	0	0.00	1.41	10.68	57.11	21
	16:00	East Overflow	28	5	29	30	60	35	2	65	18	0.00	80	0	0.00	1.52	10.90	60.49	11
	18:00	East Overflow	20	4	30	38	100	52	8	103	18	0.00	97	0	0.00	1.52	11.18	59.56	43
	20:00	East Overflow	18	3	30	16	104	52	9	103	17	0.00	100	1	0.00	1.51	11.22	59.20	47
	22:00	East Overflow	12	5	30	16	100	53	1.38	100	16	0.00	96	1	0.00	1.54	11.26	60.00	7
12/27/09	0:00	East Overflow	12	5	30	16	103	54	9.25	101	16	0.00	96	1	0.00	1.54	11.26	60.00	49
	2:00	East Overflow	10	5	30	14	100	54	2.96	98	16	0.00	94	1	0.00	1.53	11.29	59.91	16
	4:00	East Overflow	9	4	30	13	100	56	0	99	16	0.00	95	1	0.00	1.48	11.32	58.87	0
	6:00	East Overflow	8	5	29	12	100	57	0	100	16	0.00	96	1	0.00	1.48	11.13	58.82	0
	8:00	East Overflow	14	5	29	18	110	47	0	103	18	0.00	98	0	0.00	1.46	11.06	58.32	0

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	10:00	East Overflow	17	5	29	20	115	57	10	107	18	0.00	102	0	0.00	1.45	11.03	57.91	53
	12:00	East Overflow	24	6	29	24	115	57	15	107	18	0.00	104	0	0.00	1.42	10.93	57.21	79
	14:00	East Overflow	24	6	28	22	117	58	10	109	18	0.00	104	0	0.00	1.42	10.75	57.21	53
	16:00	East Overflow	25	6	28	30	120	55	4	111	18	0.00	107	0	0.00	1.42	10.74	57.06	21
	18:00	East Overflow	24	6	26	32	120	55	24	113	18	0.00	105	0	0.00	1.42	10.38	57.16	132
	20:00	East Overflow	14	6	28	18	110	58	15	106	18	0.00	104	0	0.00	1.42	10.87	57.21	79
	22:00	East Overflow	13	6	28	17	110	58	0	104	18	0.00	100	0	0.00	1.42	10.88	57.41	0
12/28/09	0:00	East Overflow	11	6	30	12	108	55	7.35	102	18	0.00	99	0	0.00	1.43	11.24	57.66	38
	2:00	East Overflow	10	6	28	12	105	55	0.26	102	18	0.00	98	0	0.00	1.45	10.92	58.12	1
	4:00	East Overflow	11	6	28	13	105	56	9.25	103	18	0.00	99	0	0.00	1.46	10.90	58.27	49
	6:00	East Overflow	9	6	28	12	105	56	0.94	101	18	0.00	98	0	0	1.43	10.93	57.72	5
	8:00	East Overflow	7	6	28	9	100	58	1.78	98	18	0.00	96	0	0.00	1.47	10.95	58.62	10
	10:00	East Overflow	12	6	28	7	105	59	4.75	100	16	0.00	97	0	0.00	1.44	10.89	57.97	25
	12:00	East Overflow	22	6	28	23	110	57	11.6	103	16	0.00	96	0	0.00	1.4	10.78	57.21	62
	14:00	West Overflow	27	4	2	28	115	65	232	111	19	0.05	105	0	0.02	1.64	3.00	61.42	4749
	16:00	West Overflow	26	4	10.0	28	115	65	11.6	111	18	0.00	104	0	0.04	1.62	3.00	61.10	236
	18:00	West Overflow	22	2	10	32	110	67	0.02	107	20	0.00	107	0	0.00	1.68	1.23	62.06	1
	20:00	West Overflow	18	2	10	20	105	62	0.06	105	20	0.00	102	1	0.00	1.67	1.26	62.15	3
	22:00	West Overflow	12	2	19	18	100	65	5	103	18	0.00	100	0	0.00	1.65	1.73	61.89	179
12/29/09	0:00	West Overflow	16	2	19	20	105	66	3.28	104	20	0.00	100	0	0.00	1.64	1.73	61.70	117
	2:00	West Overflow	15	2	19	16	100	68	15	101	20	0.00	99	0	0.00	1.68	1.74	62.50	540
	4:00	West Overflow	15	2	19	18	102	68	5.3	101	20	0.00	98	0	0.00	1.67	1.74	62.37	190
	6:00	West Overflow	16	2	19	16	103	65	12.8	103	20	0.00	99	0	0.00	1.67	1.73	62.32	460
	8:00	West Overflow	15	2	40	20	105	50	16	103	18	0.00	99	0	0.00	1.5	2.45	59.06	385
	10:00	West Overflow	18	3	40	22	110	50	2.42	107	18	0.00	103	0	0.00	1.5	2.44	58.85	58
	12:00	West Overflow	25	2	40	26	112	60	0.28	110	18	0.00	106	0	0.00	1.48	2.42	58.30	7
	14:00	West Overflow	32	2	40	40	112	60	60	110	18	0.00	104	0	0.00	1.48	2.41	58.40	1455
	16:00	West Overflow	35	2	38	30	120	60	124	115	18	0.02	105	0	0.00	1.47	2.35	58.15	3071
	18:00	West Overflow	30	2	30	30	118	64	59	119	18	0.00	116	0	0.00	1.5	2.12	58.18	1620
	20:00	West Overflow	26	2	34	30	119	60	7.95	115	18	0.00	110	0	0.00	1.48	2.25	58.09	205
	22:00	West Overflow	25	2	34	30	120	60	19	114	18	0.00	109	0	0.00	1.47	2.26	57.95	488
12/30/09	0:00	West Overflow	26	2	34	28	118	62	19.8	112	18	0.00	108	0	0.00	1.49	2.25	58.39	513
	2:00	West Overflow	25	2	34	28	119	60	10.6	112	18	0.00	105	0	0.00	1.5	2.26	58.74	276
	4:00	West Overflow	24	2	34	29	117	60	39	114	18	0.00	112	0	0.00	1.5	2.26	58.38	1008
	6:00	West Overflow	25	3	32	29	118	60	95	119	18	0.05	113	0	0.00	1.5	2.19	58.33	2529
	8:00	West Overflow	24	4	34	27	115	59	43	116	18	0.00	113	0	0.00	1.49	2.25	58.14	1112
	10:00	West Overflow	26	3	38	28	89	59	35	100	16	0.00	99	0	0.00	1.46	2.37	58.27	862
	12:00	West Overflow	26	3	38	28	93	59	66	93	16	0.00	87	0	0.00	1.42	2.36	58.09	1621
	14:00	West Overflow	26	3	38	28	92	58	91	95	17	0.00	88	0	0.00	1.45	2.36	58.65	2257
	16:00	West Overflow	26	3	38	28	95	58	43	97	18	0.00	90	0	0.00	1.46	2.36	58.74	1068
	18:00	West Overflow	26	3	39	28	94	58	25	97	17	0.00	92	0	0.00	1.46	2.39	58.63	613
	20:00	West Overflow	26	3	39	27	90	23	26	93	18	0.00	88	0	0.00	1.16	2.39	52.45	570
	22:00	West Overflow	26	3	39	28	88	56	26	90	18	0.00	83	0	0.00	1.41	2.39	58.10	632
12/31/09	0:00	West Overflow	26	3	39	28	90	60	19.9	94	18	0.00	87	0	0.00	1.46	2.39	58.90	490
	2:00	West Overflow	27	3	39	29	90	60	32	93	17	0.00	86	0	0.00	1.45	2.39	58.75	787
	4:00	West Overflow	26	3	39	29	99	60	38	97	17	0.00	89	0	0.00	1.47	2.39	59.00	937
	6:00	West Overflow	26	3	39	29	97	60	35	96	17	0.00	85	0	0.00	1.46	2.39	59.01	863
	8:00	West Overflow	22	4	39	24	112	59	1.89	110	18	0.00	106	0	0.00	1.5	2.40	58.69	46
	10:00	West Overflow	23	4	40	26	113	59	2	108	17	0.00	105	0	0.00	1.48	2.42	58.35	48

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	12:00	West Overflow	31	4	46	33	105	57	62	109	16	0.00	103	0	0.00	1.44	2.55	57.66	1400
	14:00	West Overflow	30	4	40	32	113	59	155	115	12	0.00	107	0	0.00	1.46	2.40	57.85	3730
	16:00	West Overflow	28	4	40	31	117	59	106	112	17	0.00	108	0	0.00	1.48	2.41	58.20	2560
	18:00	West Overflow	28	4	40	30	115	60	115	110	17	0.00	104	0	0.00	1.45	2.41	57.81	2759
	20:00	West Overflow	27	4	38	30	115	60	99	110	18	0.00	104	0	0.00	1.48	2.36	58.40	2451
	22:00	West Overflow	28	4	38	30	120	60	82	111	17	0.00	105	0	0.00	1.45	2.36	57.76	2010
1/1/10	0:00	West Overflow	28	4	38	30	121	60	91	111	17	0.00	106	0	0.00	1.46	2.36	57.90	2237
	2:00	West Overflow	34	4	38	34	115	59	47	112	17	0.00	105	0	0.00	1.49	2.34	58.55	1176
	4:00	West Overflow	33	4	38	34	116	59	54	112	17	0.00	105	0	0.00	1.49	2.34	58.55	1349
	6:00	West Overflow	34	4	38	36	115	60	105	114	17	0.00	106	0	0.00	1.5	2.34	58.69	2634
	8:00	West Overflow	34	4	38	36	118	60	31	118	18	0.00	113	0	0.00	1.47	2.34	57.75	765
	10:00	West Overflow	34	6	38	36	122	60	8	121	18	0.00	116	0	0.00	1.49	2.33	57.99	199
	12:00	West Overflow	34	6	38	38	124	60	7.45	121	17	0.00	115	0	0.00	1.48	2.33	57.84	185
	14:00	West Overflow	36	5	38	40	124	60	102	120	17	0.00	117	0	0.00	1.44	2.33	56.96	2491
	16:00	West Overflow	36	5	38	38	110	58	90	118	17	0.00	110	0	0.00	1.42	2.33	56.91	2196
	18:00	West Overflow	36	6	36	38	110	60	98	126	16	0.00	113	0	0.00	1.46	2.27	57.55	2480
	20:00	West Overflow	38	6	36	40	122	58	130	124	15	0.00	118	0	0.00	1.41	2.27	56.31	3228
	22:00	West Overflow	38	6	34	40	125	60	164	127	15	0.00	119	0	0.00	1.46	2.21	57.25	4248
1/2/10	0:00	West Overflow	38	5	31	40	130	60	127	123	16	0.00	114	0	0.00	1.45	2.12	57.30	3428
	2:00	West Overflow	39	5	31	41	105	60	116	114	15	0.00	109	0	0.00	1.44	2.12	57.35	3137
	4:00	West Overflow	35	6	38	37	101	59	62	106	15	0.00	104	0	0.00	1.42	2.33	57.21	1523
	6:00	West Overflow	35	5	40	34	100	59	60	100	15	0.00	94	0	0.00	1.41	2.39	57.52	1445
	8:00	West Overflow	32	5	38	36	102	58	31	103	16	0.00	94	0	0.00	1.4	2.34	57.31	758
	10:00	West Overflow	32	5	38	34	100	58	38	100	16	0.00	92	0	0.00	1.4	2.34	57.42	932
	12:00	West Overflow	33	5	38	34	100	58	41	101	16	0.00	93	0	0.00	1.4	2.34	57.36	1005
	14:00	West Overflow	34	5	39	36	102	58	97	103	16	0.00	93	0	0.00	1.39	2.36	57.16	2345
	16:00	West Overflow	36	5	39	42	112	58	64	109	16	0.00	99	0	0.00	1.38	2.36	56.65	1537
	18:00	West Overflow	34	5	38	38	112	58	69	111	16	0.00	101	0	0.00	1.39	2.34	56.75	1676
	20:00	West Overflow	31	6	36	34	125	61	15	124	16	0.00	114	0	0.00	1.44	2.29	57.10	375
	22:00	West Overflow	32	5	41	35	121	61	12	119	16	0.00	114	0	0.00	1.43	2.42	56.91	282
1/3/10	0:00	West Overflow	29	6	41	32	123	62	7	122	15	0.00	116	0	0.00	1.43	2.42	56.81	164
	2:00	West Overflow	26	6	41	27	120	63	38	117	16	0.00	113	0	0.00	1.45	2.43	57.35	896
	4:00	West Overflow	25	3	56	28	115	62	10	115	15	0.00	112	0	0.00	1.44	2.79	57.20	205
	6:00	West Overflow	25	5	45	29	119	62	2	116	15	0.00	111	0	0.00	1.44	2.54	57.25	45
	8:00	West Overflow	26	5	44	30	122	62	0.45	115	16	0.00	111	0	0.00	1.41	2.51	56.65	10
	10:00	West Overflow	26	5	44	30	120	62	0.41	114	16	0.00	111	0	0.00	1.41	2.51	56.65	9
	12:00	West Overflow	28	6	42	32	120	62	38	115	16	0.00	107	0	0.00	1.38	2.45	56.25	871
	14:00	West Overflow	30	6	32	36	122	64	95	122	16	0.00	114	0	0.00	1.45	2.17	57.30	2509
	16:00	West Overflow	30	6	32	36	124	64	66	124	16	0.00	115	0	0.00	1.45	2.17	57.25	1743
	18:00	West Overflow	28	6	36	34	122	64	34	122	16	0.00	116	0	0.00	1.49	2.29	57.99	860
	20:00	West Overflow	29	6	40	32	125	63	14	122	16	0.00	117	0	0.00	1.43	2.40	56.76	331
	22:00	West Overflow	26	5	42	27	120	62	13	118	16	0.00	114	0	0.00	1.45	2.46	57.30	302
1/4/10	0:00	West Overflow	24	5	42	26	116	63	29	114	16	0.00	112	0	0.00	1.43	2.47	57.01	670
	2:00	West Overflow	24	5	41	25	117	63	32	114	16	0.00	108	0	0.00	1.44	2.44	57.41	752
	4:00	West Overflow	23	6	39	25	115	63	19	114	16	0.00	110	0	0.00	1.44	2.39	57.30	456
	6:00	West Overflow	21	6	44	22	115	63	42	112	16	0.00	108	0	0.00	1.44	2.52	57.41	956
	8:00	West Overflow	21	5	41	23	115	64	14.8	113	14	0.00	109	0	0.00	1.44	2.45	57.35	346
	10:00	West Overflow	22	5	38	23	115	64	9.15	112	13	0.00	108	0	0.00	1.43	2.37	57.21	221
	12:00	West Overflow	28	5	40	30	120	64	29	117	14	0.00	113	0	0.00	1.41	2.40	56.56	682

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	14:00	West Overflow	34	5	44	34	125	62	178	132	14	0.00	119	0	0.00	1.39	2.49	55.86	3991
	16:00	West Overflow	32	5	30	34	125	62	104	127	16	0.00	123	0	0.00	1.45	2.10	56.86	2810
	18:00	West Overflow	32	5	28	32	125	64	102	128	14	0.00	123	0	0.00	1.45	2.04	56.86	2845
	20:00	West Overflow	27	6	28	28	119	66	32	118	16	0.00	117	0	0.00	1.44	2.05	56.96	891
	22:00	West Overflow	28	5	36	31	124	65	120	124	16	0.00	116	0	0.00	1.45	2.30	57.20	2990
1/5/10	0:00	West Overflow	28	4	35	32	125	63	32	121	16	0.00	114	0	0.00	1.41	2.27	56.51	796
	2:00	West Overflow	29	6	36	32	125	63	14	121	16	0.00	114	0	0.00	1.41	2.29	56.51	346
	4:00	West Overflow	29	6	41	33	125	62	52	121	16	0.00	116	0	0.00	1.4	2.42	56.21	1206
	6:00	West Overflow	35	6	40	38	130	62	129	124	16	0.00	113	0	0.00	1.39	2.38	56.15	3037
	8:00	West Overflow	32	5	28	34	128	65	98	125	16	0.00	118	0	0.00	1.44	2.04	56.91	2736
	10:00	West Overflow	34	5	40	34	128	65	42	124	16	0.00	118	0	0.00	1.38	2.39	55.71	979
	12:00	West Overflow	40	5	33	42	110	62	102	117	16	0.00	114	0	0.00	1.36	2.18	55.50	2596
	14:00	West Overflow	37	5	28	46	110	65	134	119	16	0.00	110	0	0.00	1.36	2.03	55.69	3680
	16:00	West Overflow	38	5	24	40	108	65	82	116	16	0.00	109	0	0.00	1.39	1.88	56.35	2452
	18:00	West Overflow	38	5	39	40	105	65	80	111	16	0.00	106	0	0.00	1.28	2.36	54.22	1842
	20:00	West Overflow	36	6	36	40	105	64	77	107	16	0.00	100	0	0.00	1.28	2.27	54.51	1846
	22:00	West Overflow	34	6	40	38	110	66	97	117	16	0.00	109	0	0.00	1.32	2.39	54.91	2232
1/6/10	0:00	West Overflow	36	6	40	38	108	66	78	113	16	0.00	105	0	0.00	1.31	2.38	54.90	1798
	2:00	West Overflow	36	6	40	38	106	65	99	108	16	0.00	99	0	0.00	1.30	2.38	54.98	2286
	4:00	West Overflow	36	6	40	38	110	65	74	110	16	0.00	101	0	0.00	1.30	2.38	54.88	1705
	6:00	West Overflow	36	6	40	38	110	65	88	110	16	0.00	102	0	0.00	1.31	2.38	55.04	2034
	8:00	West Overflow	34	5	45	34	108	64	45	107	16	0.00	100	0	0.00	1.08	2.52	50.07	896
	10:00	West Overflow	32	8	8	34	108	70	29	116	16	0.00	106	0	0.00	0.82	5.78	43.40	218
	12:00	West Overflow	28	10	5	40	120	70	128	112	16	0.00	103	0	0.00	0.94	4.57	46.59	1304
	14:00	West Overflow	28	8	3	32	112	70	95	110	16	0.10	101	0	0.00	0.69	3.54	39.98	1074
	16:00	West Overflow	32	8	5	28	112	70	112	116	16	0.00	98	0	0.00	0.69	4.57	40.09	983
	18:00	West Overflow	28	8	4	26	110	70	2	105	16	0.22	96	0	0.00	1.3	4.09	55.13	27
	20:00	West Overflow															0.00	0.00	
1/7/10	0:00	West Overflow															0.00	0.00	
	16:00	West Overflow	18	6	4	26	94	25	11	88	11	0	68	0	0	1.25	4.15	55.47	147
	18:00	West Overflow	14	5	4	16	72	32	228	98	16	70	91	0	0.11	1.30	4.18	55.38	3022
	18:00	West Overflow	14	5	0.5	16	72	32	38	98	16	70	91	0	0	1.66	1.44	62.58	1646
	22:00	West Overflow															0.00	0.00	
1/8/10	0:00	West Overflow															0.00	0.00	
	8:00	West Overflow															0.00	0.00	
1/9/10	12:00	West Overflow	24	5	5	26	90	42	0	80	18	0	77	0	0	1.7	4.62	64.15	0
	14:00	West Overflow	24	4	1	28	95	35	25	89	16	14	86	0	0	1.5	2.04	59.76	732
	16:00	West Overflow	26	4	1	28	96	35	57	96	15	0	92	0	0	1.4	2.04	57.42	1607
	18:00	West Overflow	26	4	1	26	96	35	4	94	15	0	94	0	0	1.4	2.04	57.31	113
1/10/10	8:00	West Overflow	26	6	8	28	97	27	6	92	0	0.00	90	12	0.00	1.8	5.84	65.22	67
	10:00	West Overflow	28	7	1	32	105	40	116	109	18	19.80	96	0	0.02	1.4	2.02	57.21	3280
	12:00	West Overflow	31	6	0.5	35	100	43	112	102	18	0.13	100	0	0.00	1.8	1.42	64.64	5115
	14:00	West Overflow	35	9	0.25	38	100	46	105	109	20	0.00	103	0	0.00	1.9	0.98	66.23	7067
	16:00	West Overflow	34	9	0.25	40	102	46	89	102	19	0.00	99	0	0.00	1.9	0.98	66.47	6012
	18:00	West Overflow	35	9	0.25	32	95	48	20	101	20	0.00	95	0	0.00	1.9	0.98	66.71	1357
1/11/10	8:00	West Overflow	0	0	0							0.00			0.00		0.00	0.00	
	14:00	West Overflow	36	10	12	38	89	48	12	96	18	0.00	91	0	0.00	1.5	1.34	59.49	533

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	16:00	West Overflow	38	10	0.3	42	78	42	20	98	16	0.05	97	0	0.00	1.8	0.20	64.81	6325
	18:00	West Overflow	34	8	0.3	34	95	47	16	98	18	0.00	99	0	0.00	1.8	0.21	64.70	5010
1/12/10		West Overflow	20	6	0.1	20	83	48	0	82	18	0.00	80	0	0.00	1.8	0.12	65.82	0
	8:00	West Overflow	20	7	1	20	83	48	77	82	18	0.00	80	0	0.00	1.9	0.38	67.63	13806
	10:00	West Overflow	0	0					0			0.00			0.00		0.00	0.00	
	12:00	West Overflow	29	6	0.3	28	87	46	77	72	18	0.00	67	0	0.00	1.8	0.21	66.63	24633
	14:00	West Overflow	36	9	3.5	36	100	45	102	95	16	0.00	91	0	0.00	1.8	0.72	65.16	9195
	16:00	West Overflow	35	11	3	38	102	44	97	104	16	0.00	102	0	0.00	1.6	0.67	60.83	8847
	18:00	West Overflow	0	0								0.00			0.00		0.00	0.00	#DIV/0!
	20:00	West Overflow	32	10	0.1	39	83	41	21	96	16	0.00	102	0	0.00	1.8	0.12	64.52	11545
1/13/10	8:00	West Overflow	23	10	4.5	24	84	42	91	84	15	0.00	85	0	0.00	1.8	0.83	65.52	7170
	10:00	West Overflow	27	10	9	30	86	40	92	90	16	0.00	89	0	0.00	1.7	1.17	63.44	4978
	12:00	West Overflow	34	11	8	36	98	40	95	99	16	0.00	96	0	0.00	1.7	1.10	63.04	5468
	14:00	West Overflow	35	9	2	38	100	40	80	112	17	0.00	107	0	0.00	1.7	0.54	62.43	9178
	16:00	West Overflow	38	10	2.5	40	100	39	92	105	16	0.00	98	0	0.00	1.7	0.61	62.93	9536
	18:00	West Overflow	36	2	0.01	32	65	39	0	74	16	0.00	86	0	0.00	1.7	0.04	63.62	0
1/14/10		West Overflow	34	0.01	0.01	34	83	38	0	83	17	0.00	78	0	0.00	1.7	0.04	64.09	0
	8:00	West Overflow	34	10	3	34	83	38	94	83	17	0.00	78	0	0.00	1.7	0.67	64.09	9029
	10:00	West Overflow	33	11	7.5	34	81	39	23	84	16	0.00	79	0	0.00	1.7	1.06	64.03	1387
	12:00	West Overflow	34	10	7.5	36	82	40	24	84	16	0.00	79	0	0.00	1.7	1.06	64.03	1446
	14:00	West Overflow	36	10	3	38	82	40	96	89	16	0.00	83	0	0.00	1.7	0.67	63.79	9177
	16:00	West Overflow	36	11	8	40	86	40	64	87	16	0.00	83	0	0.00	1.7	1.09	63.79	3735
	18:00	West Overflow	34	11	2	36	86	40	15	92	16	0.00	86	0	0.00	1.7	0.54	63.62	1757
1/15/10		West Overflow	24	10	3	22	85	40	18	84	15	0.00	83	0	0.00	1.7	0.68	63.79	1700
	8:00	West Overflow	24	10	8	22	85	40	48	84	15	0.00	83	0	0.00	1.7	1.11	63.79	2763
	10:00	West Overflow	28	12	20	26	88	38	28	88	16	0.00	87	0	0.00	1.7	1.73	63.56	1031
	12:00	West Overflow	34	12	2	34	102	38	96	102	16	0.00	96	0	0.00	1.7	0.54	63.04	11160
	14:00	West Overflow	37	8	0.5	42	112	37	82	111	16	0.00	103	0	0.00	1.7	0.27	62.65	19197
	16:00	West Overflow	37	10	0.5	42	107	37	98	103	16	0.00	103	0	0.00	1.7	0.27	62.65	23016
	18:00	West Overflow	37	10	0.5	38	100	37	26	105	16	0.00	106	0	0.00	1.7	0.27	62.48	6091
1/16/10		West Overflow	19	8	0.1	20	85	38	5	84	16	0.00	81	0	0.00	1.7	0.12	63.91	2675
	8:00	West Overflow	19	8	4	20	85	38	45	84	16	0.00	82	0	0.00	1.7	0.79	63.85	3644
	10:00	West Overflow	20	8	12	24	85	38	38	85	16	0.03	83	0	0.00	1.7	1.37	63.79	1773
	12:00	West Overflow	28	8	6	32	96	38	115	96	16	0.00	92	0	0.00	1.7	0.96	63.27	7588
	14:00	West Overflow	36	10	0.8	38	100	38	110	111	16	0.03	104	0	0.00	1.7	0.34	62.59	20257
	16:00	West Overflow	35	10	1	38	100	38	103	104	16	0.00	103	0	0.00	1.7	0.38	62.65	16932
	18:00	West Overflow	37	9	1	36	100	40	109	106	16	0.00	104	0	0.00	1.7	0.38	62.59	17905
	20:00	West Overflow	37	6	0.25	36	100	40	20	106	16	0.00	104	0	0.00	1.7	0.19	62.59	6660
1/17/10		West Overflow	22	7	0.2	20	82	40	2	83	16	0.00	82	0	0.00	1.7	0.17	63.85	751
	8:00	West Overflow	22	12	10	20	82	40	45	83	16	0.00	82	0	0.00	1.7	1.24	63.85	2321
	10:00	West Overflow	24	12	15	26	90	38	37	91	16	0.00	87	0	0.00	1.7	1.51	63.56	1559
	12:00	West Overflow	32	10	2.7	34	100	38	123	102	16	0.00	96	0	0.00	1.7	0.64	63.04	12206

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	14:00	West Overflow	36	8	1	40	100	40	118	107	16	0.03	102	0	0.00	1.7	0.38	62.70	19377
	16:00	West Overflow	39	8	1	40	100	40	126	109	16	0.00	106	0	0.00	1.7	0.38	62.48	20680
	18:00	West Overflow	35	6	1	34	100	38	68	104	16	0.00	104	0	0.00	1.7	0.38	62.59	11090
	20:00	West Overflow	35	6	0.25	34	100	38	23	104	16	0.00	104	0	0.00	1.7	0.19	62.59	7643
1/18/10		West Overflow	34	8	0.25	32	100	36	13	99	16	0.00	97	0	0.00	1.6	0.19	61.10	4225
	8:00	West Overflow	34	8	4	32	100	36	124	99	16	0.00	97	0	0.00	1.6	0.78	61.10	9758
	10:00	West Overflow	35	12	8	32	100	38	52	100	16	0.00	98	0	0.00	1.7	1.09	62.93	2995
	12:00	West Overflow	38	10	1	40	105	40	108	110	16	0.00	105	0	0.00	1.6	0.38	60.67	17245
	14:00	West Overflow	40	12	1	42	100	40	124	104	16	0.00	105	0	0.00	1.6	0.38	60.67	19893
	16:00	West Overflow	42	12	1	40	105	40	128	107	16	0.00	102	0	0.00	1.6	0.38	60.83	20634
	18:00	West Overflow	37	12	1	40	105	38	125	107	16	0.00	103	0	0.00	1.6	0.38	60.78	20033
	20:00	West Overflow	37	6	0.25	40	105	38	22	107	16	0.00	103	0	0.00	1.6	0.19	60.78	7113
1/19/10		West Overflow	34	6	0.25	35	95	40	11	95	16	0.00	92	0	0.00	1.7	0.19	63.27	3691
	8:00	West Overflow	34	12	2	35	95	40	104	95	16	0.00	92	0	0.00	1.7	0.54	63.27	12134
	10:00	West Overflow	36	12	2	38	100	40	19	99	16	0.00	95	0	0.00	1.7	0.54	63.10	2215
	12:00	West Overflow	38	10	8	40	100	40	36	99	16	0.00	96	0	0.00	1.6	1.09	61.16	2015
	14:00	West Overflow	39	9.5	3.5	42	100	40	115	102	16	0.00	98	0	0.00	1.6	0.72	61.05	9749
	16:00	West Overflow	38	10.5	5.5	47	82	39	110	92	16	0.00	98	0	0.00	1.7	0.90	62.93	7656
	18:00	West Overflow	37	10	8	40	100	40	81	102	16	0.00	98	0	0.00	1.7	1.09	62.93	4660
	20:00	West Overflow	37	0	0	40	100	40	0	102	16	0.00	98	0	0.00	1.7	0.00	62.93	
1/20/10	6:00	West Overflow	32	0	0	34	90	40	0	93	16	0.00	91	0	0.00	1.9	0.00	66.95	
	8:00	West Overflow	32	12	4.5	34	90	40	68	93	16	0.00	91	0	0.00	1.7	0.82	63.33	5248
	10:00	West Overflow	34	10	7	36	102	39	31	99	16	0.00	95	0	0.00	1.7	1.03	63.10	1905
	12:00	West Overflow	34	10	12	36	102	39	27	99	16	0.00	96	0	0.00	1.7	1.34	63.04	1269
	14:00	West Overflow	34	12	3.5	38	106	39	115	102	16	0.00	106	0	0.00	1.7	0.72	62.48	9966
	16:00	West Overflow	36	10	2	42	106	39	112	111	16	0.00	101	0	0.00	1.7	0.54	62.76	12949
	18:00	West Overflow	36	10	2	38	102	39	76	105	16	0.00	104	0	0.00	1.7	0.54	62.59	8764
	20:00	West Overflow	36	9	0.5	38	102	39	25	105	16	0.00	104	0	0.00	1.7	0.27	62.59	5850
1/21/10		West Overflow	38	10	0.5	38	103	39	32	103	16	0.00	99	0	0.00	1.7	0.27	62.87	7548
	8:00	West Overflow	38	10	1.5	38	103	39	99	103	16	0.00	99	0	0.00	1.7	0.47	62.87	13314
	10:00	West Overflow	38	10	12	38	98	38	106	98	16	0.00	97	0	0.00	1.7	1.34	62.99	4996
	12:00	West Overflow	40	10	11.5	38	94	42	108	100	16	0.00	98	0	0.00	1.7	1.31	62.93	5199
	14:00	West Overflow	44	11	2.5	46	105	40	176	118	16	0.02	109	0	0.00	1.7	0.60	62.32	18201
	16:00	West Overflow	44	11	2.5	46	106	39	108	109	16	0.00	104	0	0.00	1.7	0.60	62.59	11224
	18:00	West Overflow	36	2	0.01	42	80	37	0	88	16	0.00	94	0	0.00	1.7	0.04	63.16	0
1/22/10		West Overflow	36	2	0.01	38	90	32	0	91	16	0.00	89	0	0.00	1.7	0.04	63.44	0
	8:00	West Overflow	36	10	7.5	38	90	32	89	91	16	0.00	89	0	0.00	1.7	1.06	63.44	5339
	10:00	West Overflow	35	10	7.5	38	90	34	56	92	16	0.00	90	0	0.00	1.7	1.06	63.39	3342
	12:00	West Overflow	34	10	9	37	85	36	40	90	16	0.00	87	0	0.00	1.7	1.16	63.56	2184
	14:00	West Overflow	35	12	28	38	92	35	72	91	15	0.00	87	0	0.00	1.5	2.01	59.70	2140
	16:00	West Overflow	33	11	28	36	90	35	40	93	15	0.00	86	0	0.00	1.5	2.02	59.76	1186
	18:00	West Overflow	32	11	29	32	84	40	95	91	16	0.00	88	0	0.00	1.5	2.05	59.65	2764
	20:00	West Overflow	32	9	2	32	84	40	23	91	16	0.00	88	0	0.00	1.7	0.55	63.50	2673
1/23/10		West Overflow	32	9	2	30	75	38	24	76	16	0.00	73	0	0.00	1.7	0.55	64.39	2831
	8:00	West Overflow	32	12	18	30	75	38	80	76	16	0.00	73	0	0.00	1.5	1.63	60.48	2962
	10:00	West Overflow	30	12	17.5	32	78	38	66	88	16	0.00	75	0	0.00	1.5	1.62	60.37	2465
	12:00	West Overflow	32	12	17.5	32	75	38	99	88	16	0.00	75	0	0.00	1.5	1.61	60.37	3707

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	14:00	West Overflow	32	12	17.5	32	78	38	120	83	16	0.00	77	0	0.00	1.5	1.61	60.26	4485
	16:00	West Overflow	32	12	17.5	32	78	37	56	82	16	0.00	77	0	0.00	1.5	1.61	60.26	2093
	18:00	West Overflow	32	12	17.5	32	78	37	32	83	16	0.00	77	0	0.00	1.5	1.61	60.26	1196
	20:00	West Overflow	32	10	3	32	78	40	19	83	16	0.00	77	0	0.00	1.6	0.67	62.23	1763
1/24/10		West Overflow	28	10	3	29	79	42	12	81	16	0.00	77	0	0.00	1.6	0.67	62.23	1110
	8:00	West Overflow	28	12	15	29	79	42	26	81	16	0.00	77	0	0.00	1.6	1.50	62.23	1077
	10:00	West Overflow	28	10	15	30	79	40	24	81	16	0.00	77	0	0.00	1.6	1.51	62.23	991
	12:00	West Overflow	32	12	7	32	80	40	100	88	16	0.04	79	0	0.00	1.6	1.03	62.12	6056
	14:00	West Overflow	32	10	4	34	80	40	98	89	16	0.17	83	0	0.00	1.7	0.78	63.79	8059
	16:00	West Overflow	33	12	4	35	85	40	100	93	16	0.00	86	0	0.00	1.7	0.77	63.62	8236
	18:00	West Overflow	33	12	4	32	86	40	111	104	16	0.00	97	0	0.00	1.7	0.77	62.99	9052
	20:00	West Overflow	33	8	1	32	86	40	24	104	16	0.00	98	0	0.00	1.8	0.38	64.75	4053
1/25/10		West Overflow	28	10	0.5	28	88	44	1	89	16	0.00	88	0	0.00	1.8	0.27	65.34	243
	8:00	West Overflow	28	12	30	28	88	44	18	89	16	0.00	88	0	0.00	1.5	2.09	59.65	514
	10:00	West Overflow	28	12	8	32	98	40	11	95	17	0.00	90	0	0.00	1.6	1.10	61.49	615
	12:00	West Overflow	32	12	12	34	100	40	20	96	16	0.00	95	0	0.00	1.6	1.34	61.21	913
	14:00	West Overflow	34	10	2	34	100	40	110	108	16	0.00	102	0	0.00	1.7	0.54	62.70	12681
	16:00	West Overflow	34	10	1	34	98	40	101	108	16	0.00	101	0	0.00	1.7	0.38	62.76	16616
	18:00	West Overflow	32	10	1	32	95	45	61	97	18	0.00	96	0	0.00	1.7	0.38	63.04	10060
	20:00	West Overflow	32	7	0.5	32	95	45	24	97	18	0.00	96	0	0.00	1.9	0.27	66.65	5938
1/26/10		West Overflow	34	8	0.5	32	95	42	15	94	16	0.00	93	0	0.00	1.9	0.27	66.83	3735
	8:00	West Overflow	34	12	4	32	95	42	131	94	16	0.00	93	0	0.00	1.7	0.77	63.21	10729
	10:00	West Overflow	35	12	4	34	100	42	106	102	16	0.00	97	0	0.00	1.7	0.77	62.99	8662
	12:00	West Overflow	36	10	12	38	100	40	16	103	16	0.00	100	0	0.00	1.7	1.34	62.82	751
	14:00	West Overflow	36	10	3	40	100	42	105	111	16	0.00	105	0	0.00	1.7	0.67	62.54	9840
	16:00	West Overflow	38	12	5	40	100	40	135	105	16	0.00	101	0	0.00	1.6	0.86	60.89	9559
	18:00	West Overflow	34	12	5.5	35	95	42	96	100	16	0.00	95	0	0.00	1.6	0.91	61.21	6481
	20:00	West Overflow	34	8	1	35	95	42	30	100	16	0.00	95	0	0.00	1.8	0.38	64.93	5091
1/27/10	6:00	West Overflow	0									0.00			0.00		0.00	0.00	
	8:00	West Overflow										0.00			0.00		0.00	0.00	
	10:00	West Overflow										0.00			0.00		0.00	0.00	
	12:00	West Overflow										0.00			0.00		0.00	0.00	
	14:00	West Overflow	35	12	15	34	90	36	26	85	16	0.00	73	0	0.00	1.7	1.49	64.39	1123
	16:00	West Overflow	34	10	1	40	90	37	18	92	15	0.03	85	0	0.00	1.6	0.38	61.77	2912
	18:00	West Overflow	35	10	0.5	34	95	37	6	94	23	0.00	91	0	0.00	3	0.27	84.13	1888
	20:00	West Overflow	35	10	1	34	95	37	23	94	23	0.00	91	0	0.00	2.9	0.38	82.71	4992
1/28/10	6:00	West Overflow	26	10	0.01	26	85	37	0	84	26	0.00	83	0	0.00	2.6	0.04	78.89	0
	8:00	West Overflow	26	11	9.5	26	85	37	3	84	26	0.00	83	0	0.00	2.6	1.20	78.89	197
	10:00	West Overflow	26	11	20	28	86	36	4	85	26	0.00	83	0	0.00	2.6	1.73	78.89	182
	12:00	West Overflow	32	12	20	30	90	36	23	89	22	0.00	86	0	0.00	2.6	1.72	78.67	1052
	14:00	West Overflow	30	12	3	32	94	34	134	101	22	0.00	95	0	0.00	2.6	0.67	78.03	15621
	16:00	West Overflow	34	11	8	38	98	35	102	101	22	0.00	97	0	0.00	2.6	1.10	77.89	7253
	18:00	West Overflow	30	11	8	30	90	35	145	96	22	0.00	96	0	0.00	2.5	1.10	76.45	10075
	20:00	West Overflow	30	8	0.5	30	90	35	21	96	22	0.00	96	0	0.00	2.5	0.27	76.45	5950
1/29/10		West Overflow	22	10	0.5	22	78	35	7	80	22	0.00	77	0	0.00	2.4	0.27	76.22	1969
	8:00	West Overflow	22	12	18	22	78	34	30	80	22	0.00	77	0	0.00	2.4	1.65	76.22	1384
	10:00	West Overflow	24	12	12	24	82	34	79	89	22	0.31	87	0	0.00	2.4	1.35	75.52	4410

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																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	12:00	West Overflow	26	12	17.5	30	86	34	91	88	21	0.00	84	0	0.00	2.4	1.62	75.73	4248
	14:00	West Overflow	28	12	2	34	94	33	166	118	22	0.00	104	0	0.00	2.4	0.55	74.37	22603
	16:00	West Overflow	32	10	4	34	95	33	135	104	22	0.00	102	0	0.00	2.4	0.78	74.50	12966
	18:00	West Overflow	28	9	2	32	90	33	155	98	22	0.00	96	0	0.00	2.4	0.55	74.91	21184
	20:00	West Overflow	28	9	0.5	32	90	33	25	98	22	0.00	96	0	0.00	2.4	0.27	74.91	6944
1/30/10		West Overflow	32	7	0.5	34	95	33	1	93	21	0.00	91	0	0.00	2.4	0.27	75.24	279
	16:00	West Overflow	32	8	2.5	34	95	34	143	94	22	0.00	91	0	0.00	2.4	0.61	75.24	17582
	18:00	West Overflow	28	8	2.5	32	92	34	183	100	22	0.00	96	0	0.00	2.4	0.62	74.91	22283
	20:00	West Overflow	28	9	2.5	32	90	34	123	97	22	0.00	95	0	0.00	2.4	0.61	74.97	15012
	22:00	West Overflow	28	9	2.5	37	90	34	112	97	22	0.00	94	0	0.00	2.4	0.61	75.04	13682
	0:00	West Overflow	28	9	0.5	37	90	34	34	97	22	0.00	94	0	0.00	2.4	0.27	75.04	9461
1/31/10		West Overflow	32	9	0.5	32	84	34	11	87	22	0.00	85	0	0.00	2.4	0.27	75.66	3099
	8:00	West Overflow	32	9	11.5	32	84	34	84	87	22	0.00	85	0	0.00	2.4	1.32	75.66	4817
	10:00	West Overflow	28	9	11.5	30	74	34	87	82	22	0.00	80	0	0.00	2.4	1.32	76.01	4991
	12:00	West Overflow	28	9	11.5	32	76	34	79	83	22	0.00	77	0	0.00	2.4	1.32	76.22	4545
	14:00	West Overflow	30	9	7.5	32	78	33	206	92	22	0.00	85	0	0.00	2.4	1.07	75.66	14579
	16:00	West Overflow	32	10	7.5	32	80	33	127	89	22	0.00	85	0	0.00	2.4	1.06	75.66	9023
	18:00	West Overflow	32	10	7.5	32	78	33	106	88	21	0.00	84	0	0.00	2.4	1.06	75.73	7538
	20:00	West Overflow	32	8	1	32	78	33	28	88	21	0.00	84	0	0.00	2.4	0.38	75.73	5524
2/1/10		West Overflow	26	10	1	29	90	35	10	88	22	0.00	86	0	0.00	2.4	0.39	75.59	1963
	8:00	West Overflow	26	11	12	29	90	35	51	88	22	0.00	86	0	0.00	2.3	1.35	74.00	2791
	10:00	West Overflow	32	10	15	30	90	33	12	90	70	0.00	89	0	0.00	2.3	1.50	73.79	590
	12:00	West Overflow	28	10	8	32	95	34	19	93	21	0.00	91	0	0.00	2.4	1.10	75.24	1294
	14:00	West Overflow	32	10	3	32	90	34	123	102	22	0.00	97	0	0.00	2.4	0.67	74.84	13738
	16:00	West Overflow	28	10	3	30	83	36	107	96	23	0.00	94	0	0.00	2.5	0.67	76.59	12179
	18:00	West Overflow	25	10	3	28	82	36	61	92	22	0.00	91	0	0.00	2.5	0.68	76.80	6940
	20:00	West Overflow	25	10	1	28	82	36	28	92	22	0.00	91	0	0.00	2.4	0.39	75.24	5466
2/2/10		West Overflow	23	8	1	22	82	35	36	84	24	0.00	84	0	0.00	2.5	0.39	77.29	7183
	8:00	West Overflow	23	8	13	22	82	35	106	84	24	0.00	84	0	0.00	2.4	1.42	75.73	5663
	10:00	West Overflow	30	10	30	26	85	32	69	91	22	0.00	87	0	0.00	2.2	2.09	72.30	2385
	12:00	West Overflow	28	10	10	30	95	35	66	101	22	0.00	97	0	0.00	2.4	1.23	74.84	4003
	14:00	West Overflow	28	9	2	32	95	34	142	108	24	0.00	101	0	0.00	2.7	0.55	79.09	20493
	16:00	West Overflow	34	10	2	34	95	38	113	101	24	0.00	100	0	0.00	2.6	0.54	77.68	16135
	18:00	West Overflow	34	11	2	34	95	38	95	102	24	0.00	100	0	0.00	2.6	0.54	77.68	13588
	20:00	West Overflow	34	11	0.5	34	95	38	24	102	24	0.00	100	0	0.00	2.8	0.27	80.62	7241
2/3/10		West Overflow	28	7	0.5	24	82	37	3	83	25	0.00	82	0	0.00	2.7	0.27	80.47	893
	8:00	West Overflow	28	13	30	24	82	37	53	83	25	0.00	82	0	0.00	2.3	2.09	74.27	1887
	10:00	West Overflow	28	12	15	20	95	35	117	92	20	0.00	90	0	0.00	2.4	1.50	75.31	5867
	12:00	West Overflow	30	10	5	24	95	35	94	104	24	0.00	99	0	0.00	2.5	0.87	76.24	8234
	14:00	West Overflow	33	9	2	34	92	37	131	99	23	0.00	96	0	0.00	2.6	0.55	77.96	18730
	16:00	West Overflow	35	9	2	34	95	37	100	104	23	0.00	101	0	0.00	2.5	0.54	76.11	13985
	18:00	West Overflow	34	9	1.5	34	95	37	71	104	24	0.00	103	0	0.00	2.5	0.47	75.97	11425
	20:00	West Overflow	34	9	0.5	34	95	37	24	104	24	0.00	103	0	0.00	2.7	0.27	78.95	7070
2/4/10		West Overflow	28	8	0.5	30	84	34	10	85	20	0.00	82	0	0.00	2.6	0.27	78.96	2924
	8:00	West Overflow	28	12	20	30	84	34	112	85	20	0.00	82	0	0.00	2.4	1.73	75.87	4921
	10:00	West Overflow	30	10	26	32	90	34	70	92	20	0.00	86	0	0.00	2.4	1.96	75.59	2704
	12:00	West Overflow	32	11	26	34	95	34	86	97	20	0.00	93	0	0.00	2.4	1.95	75.11	3313
	14:00	West Overflow	34	11	4.5	36	98	34	163	114	22	0.02	107	0	0.00	2.4	0.82	74.18	14727

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	16:00	West Overflow	36	11	4.5	42	104	34	112	109	22	0.00	105	0	0.00	2.4	0.82	74.31	10168
	18:00	West Overflow	34	0	0	34	50	32	0	71	22	0.00	87	0	0.00	2.4	0.00	75.52	
2/5/10	10:00	West Overflow										0.00			0.00		0.00	0.00	
	12:00	West Overflow	34	0	0	36	90	30	0	87	22	0.00	67	0	0.00	2.8	0.00	83.10	#DIV/0!
	14:00	West Overflow	38	8	0.8	38	95	36	26	93	22	0.00	78	0	0.00	2.7	0.34	80.77	6172
	16:00	West Overflow	35	8	1	38	98	35	31	97	20	0.00	81	0	0.00	2.5	0.38	77.50	6286
	18:00	West Overflow	34	10	1	36	100	34	24	99	20	0.00	85	0	0.00	2.5	0.38	77.22	4856
	20:00	West Overflow	34	10	1	36	100	34	24	99	20	0.00	85	0	0.00	2.5	0.38	77.22	4856
2/6/10		West Overflow	34	10	1	34	98	34	31	97	20	0.00	82	0	0.00	2.5	0.39	77.43	6218
	8:00	West Overflow	34	10	6	34	98	34	75	97	20	0.00	82	0	0.00	2.5	0.95	77.43	6112
	10:00	West Overflow	34	12	17	36	90	34	93	98	19	0.00	82	0	0.00	2.5	1.59	77.43	4537
	12:00	West Overflow	34	12	17	38	98	34	130	102	19	0.00	83	0	0.00	2.5	1.59	77.36	6339
	14:00	West Overflow	35	10	3	38	98	34	165	112	19	0.00	87	0	0.00	2.5	0.67	77.08	19038
	16:00	West Overflow	35	10	3	38	98	3	137	105	19	0.00	84	0	0.00	2.5	0.67	77.29	15850
	18:00	West Overflow	34	10	3	38	95	34	66	104	19	0.00	85	0	0.00	2.5	0.67	77.22	7621
	20:00	West Overflow	34	12	1	38	95	34	28	104	19	0.00	85	0	0.00	2.5	0.38	77.22	5685
2/7/10		West Overflow	24	10	2	22	86	34	6	85	18	0.00	70	0	0.00	2.5	0.55	78.30	855
	8:00	West Overflow	24	12	30	22	86	34	23	85	18	0.00	70	0	0.00	2.4	2.10	76.72	841
	10:00	West Overflow	28	12	30	23	90	34	31	91	18	0.00	75	0	0.00	2.5	2.09	77.94	1157
	12:00	West Overflow	28	12	7	30	90	35	30	92	20	0.00	77	0	0.00	2.5	1.03	77.79	2266
	14:00	West Overflow	34	10	2	34	95	35	95	103	20	0.00	81	0	0.00	2.4	0.54	75.94	13263
	16:00	West Overflow	37	10	3	40	105	37	125	107	16	0.00	88	0	0.00	2.5	0.67	77.01	14439
	18:00	West Overflow	34	12	3	32	100	35	19	105	18	0.00	83	0	0.00	1.8	0.67	65.64	1871
	20:00	West Overflow	34	12	10	32	100	35	12	105	18	0.00	83	0	0.00	2.5	1.22	77.36	759
2/8/10		West Overflow	20	10	10	20	84	37	1	82	18	0.00	69	0	0.00	2.6	1.25	79.93	64
	8:00	West Overflow	20	12	30	20	84	37	3	82	18	0.00	69	0	0.00	2.4	2.11	76.79	109
	10:00	West Overflow	22	12	30	22	85	32	3	85	17	0.00	68	0	0.00	2.2	11.01	73.59	20
	12:00	West Overflow	25	12	8	23	92	35	51	109	19	0.03	79	0	0.00	2.5	1.10	77.65	3584
	14:00	West Overflow	26	11	10	28	90	37	138	95	20	0.00	77	0	0.00	2.5	1.23	77.79	8696
	16:00	West Overflow	29	12	9	32	97	36	153	105	20	0.00	85	0	0.00	2.5	1.17	77.22	10128
	18:00	West Overflow	32	12	9	30	92	37	142	108	20	0.00	90	0	0.00	2.6	1.16	78.39	9572
	20:00	West Overflow	32	8	1	30	92	37	32	108	20	0.00	90	0	0.00	2.6	0.38	78.39	6535
2/9/10		West Overflow	18	8	1	20	80	32	1	82	20	0.00	69	0	0.00	2.6	0.39	79.93	205
	8:00	West Overflow	18	10	30	20	80	32	4	82	20	0.00	69	0	0.00	2.5	2.12	78.38	148
	10:00	West Overflow	22	10	30	22	85	35	6	85	19	0.00	70	0	0.00	2.5	2.11	78.30	223
	12:00	West Overflow	26	8	8	30	87	35	29	88	19	0.00	70	0	0.00	2.5	1.11	78.30	2045
	14:00	West Overflow	30	9	2	32	95	35	141	104	20	0.05	81	0	0.00	2.5	0.55	77.50	19980
	16:00	West Overflow	32	10	2	34	97	35	124	101	20	0.00	81	0	0.00	2.5	0.55	77.50	17630
	18:00	West Overflow	30	6	2	32	90	35	65	101	19	0.00	83	0	0.00	2.5	0.55	77.36	9152
	20:00	West Overflow	30	6	1	32	90	35	30	101	19	0.00	83	0	0.00	2.5	0.39	77.36	6016
2/10/10		West Overflow	24	8	0.8	26	85	35	2	86	20	0.00	73	0	0.00	2.7	0.35	81.15	470
	8:00	West Overflow	24	8	30	26	85	35	39	86	20	0.00	73	0	0.00	2.5	2.11	78.08	1442
	10:00	West Overflow	25	8	30	28	88	34	22	87	20	0.00	71	0	0.00	2.5	2.11	78.23	816
	12:00	West Overflow	26	8	30	28	86	34	19	89	18	0.00	73	0	0.00	2.5	2.11	78.08	704
	14:00	West Overflow	30	6	3	32	90	34	154	110	20	0.66	81	0	0.00	2.5	0.68	77.50	17671
	16:00	West Overflow	32	10	3	32	88	33	132	99	20	0.00	79	0	0.00	2.5	0.67	77.65	15291
	18:00	West Overflow	32	10	3	32	90	33	141	99	18	0.00	80	0	0.00	2.5	0.67	77.57	16322
	20:00	West Overflow	32	6	0.5	32	90	33	31	99	18	0.00	80	0	0.00	2.5	0.27	77.57	8915
2/11/10		West Overflow	24	4	0.5	24	88	34	2	88	20	0.00	75	0	0.00	2.5	0.27	77.94	571

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	8:00	West Overflow	24	6	30	24	88	34	30	88	20	0.00	75	0	0.00	2.5	2.12	77.94	1104
	10:00	West Overflow	26	8	30	28	96	33	16	91	18	0.00	77	0	0.00	2.5	2.11	77.79	591
	12:00	West Overflow	26	8	30	30	96	32	31	93	18	0.00	77	0	0.00	2.5	2.11	77.79	1145
	14:00	West Overflow	30	8	30	32	92	32	122	100	18	0.00	82	0	0.00	2.5	2.10	77.43	4502
	16:00	West Overflow	34	10	30	36	98	32	132	102	18	0.00	81	0	0.00	2.4	2.08	75.94	4813
	18:00	West Overflow	32	11	30	36	95	32	121	107	18	0.00	86	0	0.00	2.5	2.08	77.15	4481
	20:00	West Overflow	32	8	4	36	95	32	34	107	18	0.00	86	0	0.00	2.5	0.78	77.15	3371
2/12/10		West Overflow	32	10	4	32	82	32	85	93	18	0.00	74	0	0.00	2.4	0.78	76.43	8375
	8:00	West Overflow	32	10	4	32	82	32	85	93	18	0.00	74	0	0.00	2.4	0.78	76.43	8377
	10:00	West Overflow	33	10	30	34	86	32	114	94	18	0.00	74	0	0.00	2.4	2.09	76.43	4178
	12:00	West Overflow	34	12	30	34	85	32	56	94	18	0.00	74	0	0.00	2.4	2.07	76.43	2063
	14:00	West Overflow	38	10	7	40	95	32	180	112	16	0.00	82	0	0.00	2.4	1.02	75.87	13354
	16:00	West Overflow	38	12	30	42	90	30	138	105	16	0.00	82	0	0.00	2.4	2.07	75.87	5068
	18:00	West Overflow	38	4	0.5	40	100	30	22	112	16	0.00	89	0	0.00	2.4	0.27	75.38	6167
	20:00	West Overflow	38	4	0.5	40	100	30	22	112	16	0.00	89	0	0.00	2.4	0.27	75.38	6167
2/13/10		West Overflow	33	6	0.5	31	92	32	7	94	18	0.00	77	0	0.00	2.5	0.27	77.79	2021
	8:00	West Overflow	33	14	30	31	92	32	41	94	18	0.00	77	0	0.00	2.5	2.07	77.79	1543
	10:00	West Overflow	29	12	30	31	95	34	12	95	19	0.00	80	0	0.00	2.5	2.09	77.57	446
	12:00	West Overflow	32	10	7	32	98	34	4	97	18	0.00	81	0	0.00	2.6	1.03	79.04	307
	14:00	West Overflow	34	12	10	32	87	35	125	93	18	0.00	74	0	0.00	2.6	1.22	79.55	8134
	16:00	West Overflow	37	13	18	40	97	35	142	100	18	0.00	79	0	0.00	2.6	1.62	79.18	6929
	18:00	West Overflow	37	12	18	38	100	35	44	104	18	0.00	86	0	0.00	2.6	1.63	78.67	2129
	20:00	West Overflow	37	10	8	38	100	35	24	104	18	0.00	86	0	0.00	2.6	1.09	78.67	1726
	22:00	West Overflow										0.00			0.00		0.00	0.00	
2/14/10		West Overflow	27	10	8	29	90	35	38	98	18	0.00	73	0	0.00	2.6	1.11	79.63	2736
	8:00	West Overflow	27	12	30	29	90	35	53	98	18	0.00	73	0	0.00	2.5	2.09	78.08	1979
	10:00	West Overflow	27	12	30	30	90	35	56	92	20	0.00	75	0	0.00	2.5	2.09	77.94	2088
	12:00	West Overflow	30	11	8	32	95	34	51	98	20	0.00	79	0	0.00	2.5	1.10	77.65	3601
	14:00	West Overflow	33	10	5	36	95	35	105	102	20	0.07	82	0	0.00	2.6	0.87	78.96	9554
	16:00	West Overflow	33	10	2	34	98	35	106	105	20	0.00	84	0	0.00	2.6	0.54	78.82	15345
	18:00	West Overflow	32	10	2	32	95	34	69	101	20	0.00	84	0	0.00	2.5	0.55	77.29	9784
	20:00	West Overflow	32	5	0.5	32	95	34	31	101	20	0.00	84	0	0.00	2.5	0.27	77.29	8869
2/15/10		West Overflow	28	5	0.5	28	88	35	8	90	20	0.00	76	0	0.00	2.6	0.27	79.41	2342
	8:00	West Overflow	28	13	30	28	88	35	41	90	20	0.00	76	0	0.00	2.5	2.09	77.86	1531
	10:00	West Overflow	28	12	30	31	90	34	108	94	18	0.00	75	0	0.00	2.5	2.09	77.94	4031
	12:00	West Overflow	30	10	5	31	92	34	12	96	18	0.00	79	0	0.00	2.5	0.87	77.65	1070
	14:00	West Overflow	32	13	25	32	92	35	97	94	20	0.00	77	0	0.00	2.5	1.91	77.79	3957
	16:00	West Overflow	34	13	25	34	95	34	131	107	18	0.00	86	0	0.00	2.5	1.90	77.15	5308
	18:00	West Overflow	33	13	26	32	98	34	91	105	18	0.00	85	0	0.00	2.5	1.94	77.22	3619
	20:00	West Overflow	33	10	5	32	98	34	33	105	18	0.00	85	0	0.00	2.5	0.87	77.22	2936
2/16/10		West Overflow	31	10	4	35	90	35	48	95	20	0.00	76	0	0.00	2.6	0.78	79.41	4908
	8:00	West Overflow	31	12	19	35	90	35	91	95	20	0.00	76	0	0.00	2.5	1.68	77.86	4220
	10:00	West Overflow	31	13	19	32	95	34	83	100	20	0.00	81	0	0.00	2.5	1.68	77.50	3837
	12:00	West Overflow	32	12	8	32	96	35	32	101	20	0.00	82	0	0.00	2.5	1.10	77.43	2259
	14:00	West Overflow	34	12	8	32	90	35	112	98	20	0.00	79	0	0.00	2.5	1.09	77.65	7948
	16:00	West Overflow	34	12	8	34	100	35	122	108	20	0.00	90	0	0.00	2.5	1.09	76.87	8571
	18:00	West Overflow	32	12	8	32	95	35	151	107	18	0.00	89	0	0.00	2.5	1.10	76.94	10597
	20:00	West Overflow	32	4	1	32	95	35	26	107	18	0.00	89	0	0.00	2.5	0.40	76.94	5042

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																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
2/17/10		West Overflow	28	4	0.5	32	92	34	2	93	20	0.00	78	0	0.00	2.5	0.27	77.72	572
	8:00	West Overflow	28	12	25	32	92	34	38	93	20	0.00	78	0	0.00	2.5	1.92	77.72	1540
	10:00	West Overflow	30	10	10.5	32	92	34	179	105	20	0.08	86	0	0.00	2.5	1.26	77.15	10942
	12:00	West Overflow	32	10	10	34	98	34	197	108	20	0.00	88	0	0.00	2.5	1.23	77.01	12345
	14:00	West Overflow	34	9	3.5	38	100	34	170	118	20	0.00	97	0	0.00	2.6	0.72	77.89	18282
	16:00	West Overflow	35	9	3	39	100	34	178	113	20	0.00	95	0	0.00	2.6	0.67	78.03	20762
	18:00	West Overflow	34	9	3	38	100	34	116	111	20	0.00	95	0	0.00	2.6	0.67	78.03	13515
	20:00	West Overflow	34	4	0.5	38	100	34	28	111	20	0.00	95	0	0.00	2.6	0.27	78.03	8092
2/18/10		West Overflow	28	4	0.5	32	55	24	17	72	20	0.00	58	0	0.00	2.5	0.27	79.20	4957
	8:00	West Overflow	28	4	0.5	32	55	24	17	84	20	0.00	69	0	0.00	2.5	0.27	78.38	4904
	10:00	West Overflow	32	11	5	36	95	34	156	94	20	0.00	79	0	0.00	2.5	0.87	77.65	13965
	12:00	West Overflow	34	12	10	38	95	34	104	97	20	0.00	77	0	0.00	2.5	1.22	77.79	6617
	14:00	West Overflow	35	12	9.5	40	98	34	186	104	20	0.08	82	0	0.00	2.5	1.19	77.43	12101
	16:00	West Overflow	35	12	9.5	40	98	34	156	104	20	0.00	82	0	0.00	2.5	1.19	77.43	10145
	18:00	West Overflow	36	12	9.5	38	98	34	126	108	20	0.00	86	0	0.00	2.5	1.19	77.15	8172
	20:00	West Overflow	36	6	1	38	98	34	31	108	20	0.00	86	0	0.00	2.5	0.38	77.15	6238
2/19/10		West Overflow	22	6	2	24	85	34	26	87	20	0.03	74	0	0.00	2.6	0.55	79.55	3730
	8:00	West Overflow	22	12	7.5	24	87	34	64	87	20	0.03	74	0	0.00	2.6	1.07	79.55	4750
	10:00	West Overflow	24	12	12	26	90	34	41	89	20	0.00	74	0	0.00	2.6	1.35	79.55	2411
	12:00	West Overflow	26	12	12	28	90	34	60	91	20	0.00	74	0	0.00	2.5	1.35	78.01	3468
	14:00	West Overflow	32	10	2.5	34	92	34	99	105	20	0.72	79	0	0.00	2.5	0.61	77.65	12584
	16:00	West Overflow	32	12	5	36	90	34	206	102	20	0.04	81	0	0.00	2.5	0.87	77.50	18454
	18:00	West Overflow	34	11	5	36	90	34	94	105	20	0.00	84	0	0.00	2.5	0.87	77.29	8398
	20:00	West Overflow	34	7	1	36	90	34	35	105	20	0.00	84	0	0.00	2.5	0.38	77.29	7052
2/20/10		West Overflow	16	4	1.5	18	78	34	32	80	20	0.00	67	0	0.00	2.6	0.48	80.08	5306
	8:00	West Overflow	16	6	10	18	78	34	75	80	20	0.00	67	0	0.00	2.6	1.26	80.08	4778
	10:00	West Overflow	20	7	20	24	82	34	71	85	20	0.00	70	0	0.00	2.6	1.76	79.85	3230
	12:00	West Overflow	24	6	7.5	28	85	33	109	93	20	4.16	70	0	0.00	2.5	1.08	78.30	7899
	14:00	West Overflow	26	6	7.5	30	90	33	196	98	20	2.54	74	0	0.00	2.5	1.08	78.01	14179
	16:00	West Overflow	28	6	8	32	90	33	185	97	20	0.03	75	0	0.00	2.5	1.11	77.94	12970
	18:00	West Overflow	30	6	8	34	90	33	98	100	20	0.00	79	0	0.00	2.5	1.11	77.65	6861
	20:00	West Overflow	30	4	1	34	90	33	28	100	20	0.00	79	0	0.00	2.5	0.39	77.65	5620
2/21/10		West Overflow	14	4	4.5	14	75	30	1	78	20	0.03	65	0	0.00	2.6	0.85	80.23	95
	8:00	West Overflow	14	6	14	14	75	30	3	78	20	0.03	65	0	0.00	2.5	1.49	78.67	159
	10:00	West Overflow	16	6	16	22	82	33	3	82	20	0.00	68	0	0.00	2.6	1.59	80.00	151
	12:00	West Overflow	24	7	25	28	90	32	26	87	20	0.00	71	0	0.00	2.6	1.94	79.78	1067
	14:00	West Overflow	26	6.5	14	32	92	32	157	100	20	2.94	78	0	0.00	2.5	1.47	77.72	8307
	16:00	West Overflow	28	6	14	34	90	32	216	103	20	0.28	84	0	0.00	2.5	1.47	77.29	11383
	18:00	West Overflow	32	6	14	34	90	32	72	104	18	0.00	83	0	0.00	2.5	1.46	77.36	3814
	20:00	West Overflow	32	4	1	34	90	32	26	104	18	0.00	83	0	0.00	2.5	0.39	77.36	5210
2/22/10		West Overflow	13	5	2	12	70	35	0	73	20	0.00	59	0	0.00	2.6	0.56	80.70	0
	8:00	West Overflow	13	7	30	12	70	35	0	73	20	0.00	59	0	0.00	2.5	2.14	79.13	0
	10:00	West Overflow	18	7	30	20	78	32	0	80	20	0.00	61	0	0.00	2.5	2.13	78.98	0
	12:00	West Overflow	28	7	30	24	78	34	0	80	19	0.00	62	0	0.00	2.5	2.11	78.90	0
	14:00	West Overflow	28	6	10	30	80	32	65	87	18	0.00	60	0	0.00	2.5	1.24	79.05	4135
	16:00	West Overflow	30	6	15	32	85	32	100	90	19	0.00	70	0	0.00	2.5	1.51	78.30	5176

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	18:00	West Overflow	32	8	15	31	86	32	35	95	19	0.00	74	0	0.00	2.5	1.51	78.01	1813
	20:00	West Overflow	32	8	15	31	86	32	35	95	19	0.00	74	0	0.00	2.5	1.51	78.01	1813
2/23/10		West Overflow	14	8	15	18	80	35	0	79	20	0.00	64	0	0.00	2.5	1.54	78.75	0
	8:00	West Overflow	14	10	30	18	80	35	4	79	20	0.00	64	0	0.00	2.4	11.14	77.16	28
	10:00	West Overflow	20	8	15	22	90	34	77	100	16	0.00	76	0	0.00	2.5	1.53	77.86	3930
	12:00	West Overflow	26	7	8	30	88	34	73	90	20	0.00	71	0	0.00	2.5	1.11	78.23	5134
	14:00	West Overflow	32	6	2.5	32	90	34	104	20	20	0.00	80	0	0.00	2.5	0.61	77.57	13129
	16:00	West Overflow	35	8	5	40	90	34	124	107	20	0.00	88	0	0.00	2.5	0.87	77.01	10992
	18:00	West Overflow	35	10	5	38	95	32	38	111	20	0.00	92	0	0.00	2.5	0.87	76.73	3370
	20:00	West Overflow	35	12	10	38	95	32	65	111	20	0.00	92	0	0.00	2.5	1.22	76.73	4083
2/24/10		West Overflow	24	10	12	24	85	34	198	103	20	0.08	84	0	0.00	2.5	1.36	77.29	11277
	8:00	West Overflow	24	10	5	24	85	34	146	103	20	0.03	84	0	0.00	2.5	0.88	77.29	12884
	10:00	West Overflow	28	10	5.5	30	90	34	135	102	20	0.00	83	0	0.00	2.5	0.92	77.36	11413
	12:00	West Overflow	30	6	2	32	95	34	68	111	20	0.00	92	0	0.00	2.5	0.55	76.73	9497
	14:00	West Overflow	34	12	4	38	98	34	154	106	20	0.00	88	0	0.00	2.5	0.77	77.01	15364
	16:00	West Overflow	36	11	4	36	85	32	151	103	20	0.00	81	0	0.00	2.5	0.77	77.50	15176
	18:00	West Overflow	34	12	4	32	85	32	63	95	20	0.00	75	0	0.00	2.5	0.77	77.94	6364
	20:00	West Overflow	34	12	10	32	85	32	98	95	20	0.00	70	0	0.00	2.5	1.22	78.30	6276
2/25/10		West Overflow	30	12	10	30	85	32	14	91	20	0.00	74	0	0.00	2.6	1.23	79.55	907
	8:00	West Overflow	30	14	30	30	85	32	32	91	20	0.00	74	0	0.00	2.5	2.08	78.01	1203
	10:00	West Overflow	30	14	30	30	88	30	18	92	18	0.00	74	0	0.00	2.5	2.08	78.01	676
	12:00	West Overflow	30	10	5	32	88	30	6	91	18	0.00	74	0	0.00	2.6	0.87	79.55	548
	14:00	West Overflow	34	12	10	36	84	28	36	92	18	0.00	74	0	0.00	2.6	1.22	79.55	2342
	16:00	West Overflow	34	11	12	36	85	28	80	92	20	0.00	71	0	0.00	2.6	1.34	79.78	4764
	18:00	West Overflow	33	12	12	36	90	28	74	96	20	0.00	77	0	0.00	2.6	1.34	79.33	4382
	20:00	West Overflow	33	12	10	36	90	28	70	96	20	0.00	77	0	0.00	2.6	1.22	79.33	4537
2/26/10		West Overflow	26	10	10	30	90	32	202	95	20	3.90	80	0	0.00	2.6	1.24	79.11	12924
	8:00	West Overflow	26	10	10	30	90	32	176	95	20	3.42	80	0	0.00	2.6	1.24	79.11	11256
	10:00	West Overflow	34	10	22	36	94	32	144	100	20	0.09	84	0	0.00	2.6	1.80	78.82	6300
	12:00	West Overflow	38	10	6	42	96	30	172	114	18	0.07	89	0	0.00	2.6	0.95	78.46	14261
	14:00	West Overflow	42	10	5.5	44	96	30	183	112	18	0.09	91	0	0.00	2.6	0.90	78.32	15886
	16:00	West Overflow	40	11	11	44	104	28	220	110	20	0.07	89	0	0.00	2.6	1.28	78.46	13530
	18:00	West Overflow	38	11	11	42	102	26	222	124	20	2.14	94	0	0.00	2.6	1.28	78.10	13562
	20:00	West Overflow	38	6	1.5	42	102	26	60	124	20	0.04	94	0	0.00	2.6	0.47	78.10	9954
2/27/10		West Overflow	28	9	1.5	32	90	26	50	98	20	0.02	84	0	0.00	2.6	0.47	78.82	8323
	8:00	West Overflow	28	9	10	32	90	26	195	98	20	0.94	84	0	0.03	2.6	1.24	78.82	12437
	10:00	West Overflow	36	9	10	36	92	25	214	105	18	0.88	84	0	0.00	2.6	1.23	78.82	13755
	12:00	West Overflow	38	9	4	42	100	25	193	116	18	0.44	90	0	0.00	2.6	0.77	78.39	19591
	14:00	West Overflow	42	10	4	44	102	25	182	111	18	0.22	91	0	0.00	2.6	0.77	78.32	18567
	16:00	West Overflow	40	9	2.5	42	104	24	168	116	18	0.24	93	0	0.00	2.6	0.61	78.18	21643
	18:00	West Overflow	38	9	2.5	40	102	24	105	113	18	0.07	96	0	0.00	2.6	0.61	77.96	13467
	20:00	West Overflow	38	8	1.5	40	102	24	54	113	18	0.04	96	0	0.00	2.6	0.47	77.96	8969
2/28/10		West Overflow	34	8	1.5	34	98	18	15	98	18	0.00	84	0	0.00	2.6	0.48	78.82	2443
	8:00	West Overflow	34	12	14	34	98	18	23	98	18	0.00	84	0	0.00	2.6	1.44	78.82	1256
	10:00	West Overflow	36	12	15	36	90	15	35	94	18	0.00	76	0	0.00	2.6	1.49	79.41	1866
	12:00	West Overflow	38	12	15	42	90	14	59	97	18	0.06	77	0	0.00	2.6	1.49	79.33	3148
	14:00	West Overflow	40	12	16	42	90	10	110	98	16	0.68	77	0	0.00	2.6	1.53	79.33	5698

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	16:00	West Overflow	38	12	16	38	85	8	58	95	16	0.12	75	0	0.00	2.6	1.53	79.48	3005
	18:00	West Overflow	36	12	16	36	90	8	48	95	16	0.11	75	0	0.00	2.6	1.54	79.48	2482
	20:00	West Overflow	36	12	5	36	90	8	25	95	16	0.00	75	0	0.00	2.6	0.86	79.48	2304
3/1/10		West Overflow	32	12	5	32	95	0	3	46	19	0.00	80	0	0.00	2.6	0.87	79.11	274
	8:00	West Overflow	32	14	30	32	95	0	6	96	19	0.00	80	0	0.00	2.5	2.07	77.57	225
	10:00	West Overflow	35	14	30	40	100	0	17	101	18	0.00	83	0	0.00	2.5	2.07	77.36	636
	12:00	West Overflow	38	10	8	42	105	0	10	103	18	0.00	86	0	0.00	2.6	1.09	78.67	719
	14:00	West Overflow	42	12	3	48	110	0	132	111	18	0.00	91	0	0.00	2.6	0.66	78.32	15632
	16:00	West Overflow	42	10	3	46	110	0	122	108	18	0.03	90	0	0.00	2.5	0.66	76.87	14140
	18:00	West Overflow	44	10	3	48	105	0	114	115	18	0.71	94	0	0.00	2.5	0.66	76.59	13190
	20:00	West Overflow	44	0	1	48	105	0	0	114	18	0.00	94	0	0.00	2.6	0.00	78.10	
3/2/10		West Overflow	26	0	0	30	90	0	0	92	18	0.00	77	0	0.00	2.6	0.00	79.33	
	8:00	West Overflow	26	0	0	30	90	0	0	92	18	0.00	77	0	0.00	2.6	0.00	79.33	
	10:00	West Overflow										0.00			0.00		0.00	0.00	
	12:00	West Overflow	37	0	0	40	100	34	0	91	24	0.00	65	0	0.00	2.6	0.00	80.23	
	14:00	West Overflow	45	7	1	50	110	40	62	105	24	0.00	81	0	0.00	2.5	0.38	77.50	12679
	16:00	West Overflow	45	5	0.5	50	110	40	28	114	24	0.00	93	0	0.00	2.5	0.27	76.66	8050
	18:00	West Overflow	42	5	0.5	42	110	38	27	108	24	0.00	90	0	0.00	2.6	0.27	78.39	7916
	20:00	West Overflow	42	5	0.5	42	110	38	27	108	24	0.00	90	0	0.00	2.6	0.27	78.39	7915
3/3/10		West Overflow	38	12	0.5	42	105	35	24	102	24	0.00	86	0	0.00	2.6	0.27	78.67	7105
	8:00	West Overflow	38	12	4.5	42	105	35	155	102	24	0.00	86	0	0.00	2.6	0.82	78.67	14952
	10:00	West Overflow	38	13	16	42	92	34	98	97	24	0.00	79	0	0.00	2.6	1.53	79.18	5065
	12:00	West Overflow	42	13	16	44	95	34	144	101	24	0.00	79	0	0.00	2.6	1.53	79.18	7474
	14:00	West Overflow	42	11	6.5	46	108	36	181	116	24	0.00	93	0	0.00	2.6	0.98	78.18	14442
	16:00	West Overflow	45	11	8	52	110	42	194	120	24	0.00	96	0	0.00	2.6	1.08	77.96	13961
	18:00	West Overflow	47	10	1	50	112	38	57	125	24	0.00	99	0	0.00	2.6	0.38	77.75	11770
	20:00	West Overflow	47	10	1	50	112	38	57	125	24	0.00	99	0	0.00	2.6	0.38	77.75	11769
3/4/10		West Overflow	34	12	1	44	98	34	46	100	24	0.00	84	0	0.00	2.6	0.38	78.82	9533
	8:00	West Overflow	34	12	15	44	98	34	175	100	24	0.00	84	0	0.00	2.6	1.49	78.82	9240
	10:00	West Overflow	38	10	4	44	105	35	194	121	24	0.00	95	0	0.00	2.6	0.77	78.03	19634
	12:00	West Overflow	46	10	8	50	105	38	246	112	24	0.02	92	0	0.00	2.6	1.08	78.25	17758
	14:00	West Overflow	45	13	18	48	102	38	195	109	24	0.00	89	0	0.00	2.6	1.61	78.46	9503
	16:00	West Overflow	46	13	17.5	48	102	38	114	114	24	0.00	94	0	0.00	2.6	1.59	78.10	5610
	18:00	West Overflow	44	12	18	46	106	37	128	111	23	0.00	89	0	0.00	2.6	1.61	78.46	6224
	20:00	West Overflow	44	12	5	46	106	37	61	111	23	0.00	89	0	0.00	2.6	0.85	78.46	5599
3/5/10		West Overflow	34	12	5	34	85	28	25	88	22	0.00	68	0	0.00	2.6	0.86	80.00	2317
	8:00	West Overflow	34	12	23	34	85	28	48	88	22	0.00	68	0	0.00	2.6	1.83	80.00	2095
	10:00	West Overflow	34	12	22	36	85	28	49	88	22	0.00	69	0	0.00	2.6	1.80	79.93	2180
	12:00	West Overflow	35	12	21	38	85	28	48	91	22	0.00	71	0	0.00	2.6	1.75	79.78	2183
	14:00	West Overflow	40	12	21	44	98	30	154	102	22	0.00	79	0	0.00	2.6	1.75	79.18	6987
	16:00	West Overflow	44	12	22	46	102	32	94	107	22	0.00	85	0	0.00	2.6	1.78	78.75	4168
	18:00	West Overflow	46	12	12	50	105	32	63	109	22	0.00	87	0	0.00	2.6	1.32	78.60	3747
	20:00	West Overflow	46	10	8	50	105	32	39	109	22	0.00	87	0	0.00	2.6	1.08	78.60	2828
3/6/10		West Overflow	28	12	15	30	95	28	29	98	22	0.00	81	0	0.00	2.6	1.50	79.04	1526
	8:00	West Overflow	28	12	30	30	95	28	46	98	22	0.00	81	0	0.00	2.5	2.09	77.50	1703
	10:00	West Overflow	34	11	4	36	100	30	104	106	24	0.00	85	0	0.00	2.6	0.77	78.75	10595
	12:00	West Overflow	42	10	3	48	110	32	165	111	24	0.00	87	0	0.00	2.5	0.66	77.08	19173
	14:00	West Overflow	45	10	2	50	110	35	131	119	24	0.00	95	0	0.00	2.5	0.54	76.52	18633
	16:00	West Overflow	48	10	2	52	115	38	179	122	24	0.00	96	0	0.00	2.5	0.54	76.45	25520

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	18:00	West Overflow	48	10	2	50	110	35	58	119	24	0.00	101	0	0.00	2.5	0.54	76.11	8233
	20:00	West Overflow	48	10	2	50	110	35	58	119	24	0.00	101	0	0.00	2.5	0.54	76.11	8233
3/7/10		West Overflow	28	10	2	30	95	28	92	100	25	0.00	82	0	0.00	2.6	0.55	78.96	13275
	8:00	West Overflow	28	10	3	30	95	28	172	100	25	0.00	82	0	0.00	2.6	0.67	78.96	20188
	10:00	West Overflow	32	10	5	34	98	30	133	104	25	0.00	86	0	0.00	2.5	0.87	77.15	11812
	12:00	West Overflow	40	12	8	42	105	32	149	109	24	0.00	86	0	0.00	2.5	1.09	77.15	10574
	14:00	West Overflow	46	9	2	50	110	35	173	127	25	0.00	100	0	0.00	2.5	0.54	76.18	24485
	16:00	West Overflow	45	14	13	48	110	32	149	112	23	0.00	92	0	0.00	2.5	1.37	76.73	8342
	18:00	West Overflow	39	14	15	40	105	30	167	113	23	0.00	88	0	0.00	2.5	1.48	77.01	8686
	20:00	West Overflow	39	10	4	40	105	30	59	113	23	0.00	88	0	0.00	2.5	0.77	77.01	5898
3/8/10	6:00	OFF-Power										0.00			0.00		0.00	0.00	
	8:00	West Overflow										0.00			0.00		0.00	0.00	
	14:00	West Overflow										0.00			0.00		0.00	0.00	
	18:00	West Overflow	50	8	1	52	118	35	21	117	20	0.00	95	0	0.00	2.3	0.38	73.39	4088
3/9/10		West Overflow	30	8	1	30	80	22	45	86	20	0.00	69	0	0.00	2.5	0.38	78.38	9170
	8:00	West Overflow	30	12	5	30	80	22	169	86	20	0.00	69	0	0.00	2.5	0.87	78.38	15263
	10:00	West Overflow	30	14	30	28	75	20	83	81	20	0.00	62	0	0.00	2.4	2.08	77.31	3091
	12:00	West Overflow	28	12	8	30	80	22	101	88	18	0.00	64	0	0.00	2.5	1.10	78.75	7220
	14:00	West Overflow	28	12	12	30	75	22	184	85	20	0.00	64	0	0.00	2.5	1.35	78.75	10766
	16:00	West Overflow	28	14	12	32	78	22	184	90	20	0.00	68	0	0.00	2.5	1.34	78.45	10753
	18:00	West Overflow	32	12	12	32	80	22	153	91	20	0.00	69	0	0.00	2.5	1.34	78.38	8942
	20:00	West Overflow	32	10	2	32	80	22	52	91	20	0.00	69	0	0.00	2.5	0.55	78.38	7470
3/10/10		West Overflow	25	10	18	26	78	22	29	84	20	0.00	67	0	0.00	2.5	1.65	78.53	1378
	8:00	West Overflow	25	12	18	26	78	22	52	84	20	0.00	67	0	0.00	2.5	1.65	78.53	2480
	10:00	West Overflow	27	12	19	28	78	20	92	84	20	0.00	65	0	0.00	2.5	1.69	78.67	4295
	12:00	West Overflow	28	12	19	32	82	22	111	87	20	0.00	67	0	0.00	2.5	1.68	78.53	5174
	14:00	West Overflow	34	11	16.5	34	85	22	180	95	20	0.00	72	0	0.00	2.5	1.57	78.16	8985
	16:00	West Overflow	34	11	16.5	36	92	22	54	100	20	0.00	79	0	0.00	2.5	1.57	77.65	2677
	18:00	West Overflow	36	11	16	42	100	24	49	104	20	0.00	83	0	0.00	2.5	1.54	77.36	2461
	20:00	West Overflow	36	11	16	42	100	24	50	104	20	0.00	83	0	0.00	2.5	1.54	77.36	2512
3/11/10		West Overflow	25	12	15.5	28	84	18	22	85	20	0.00	69	0	0.00	2.5	1.53	78.38	1126
	8:00	West Overflow	25	12	18	28	84	18	30	85	20	0.00	69	0	0.00	2.5	1.65	78.38	1427
	10:00	West Overflow	30	12	18	32	82	18	28	86	20	0.00	67	0	0.00	2.5	1.64	78.53	1343
	12:00	West Overflow	34	13	18	36	88	20	77	91	20	0.00	71	0	0.00	2.5	1.63	78.23	3699
	14:00	West Overflow	38	13	18	42	90	22	266	101	20	0.00	79	0	0.00	2.5	1.62	77.65	12736
	16:00	West Overflow	38	13	18	46	90	24	151	104	18	0.00	81	0	0.00	2.5	1.62	77.50	7217
	18:00	West Overflow	40	13	18	44	90	23	121	109	18	0.00	86	0	0.00	2.5	1.62	77.15	5768
	20:00	West Overflow	40	12	8	44	90	23	88	109	18	0.00	86	0	0.00	2.5	1.09	77.15	6245
3/12/10		West Overflow	26	12	8	30	95	18	48	94	22	0.00	85	0	0.00	2.5	1.10	77.22	3358
	8:00	West Overflow	26	12	17.5	30	95	18	88	94	22	0.00	85	0	0.00	2.5	1.62	77.22	4189
	10:00	West Overflow	34	12	18	38	100	22	48	101	20	0.00	87	0	0.00	2.5	1.63	77.08	2269
	12:00	West Overflow	42	12	7.5	48	110	25	200	117	20	0.00	94	0	0.00	2.5	1.05	76.59	14585
	14:00	West Overflow	45	12	3.5	49	110	26	198	128	20	0.00	101	0	0.00	2.5	0.71	76.11	21131
	16:00	West Overflow	46	10	3	48	100	26	230	115	20	0.00	95	0	0.00	2.5	0.66	76.52	26638
	18:00	West Overflow	44	10	3	48	110	26	172	118	20	0.00	98	0	0.00	2.5	0.66	76.31	19832
	20:00	West Overflow	44	5	0.5	48	110	26	51	118	20	0.00	98	0	0.00	2.5	0.27	76.31	14581
3/13/10		West Overflow	32	5	1	32	78	18	30	85	20	0.00	69	0	0.00	2.5	0.39	78.38	6099
	8:00	West Overflow	32	12	9	32	78	18	173	85	20	0.00	69	0	0.00	2.4	1.16	76.79	11424
	10:00	West Overflow	32	12	9	32	75	18	67	86	20	0.00	67	0	0.00	2.5	1.16	78.53	4525

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																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	12:00	West Overflow	32	12	9	32	80	16	73	85	20	0.00	65	0	0.00	2.4	1.16	77.09	4840
	14:00	West Overflow	32	12	21	30	75	16	148	85	20	0.00	66	0	0.00	2.4	1.76	77.01	6479
	16:00	West Overflow	32	13	30	32	80	18	111	87	20	0.00	68	0	0.00	2.4	2.08	76.87	4112
	18:00	West Overflow	32	13	30	32	85	18	85	92	20	0.00	71	0	0.00	2.4	2.08	76.65	3138
	20:00	West Overflow	32	12	10	32	85	18	48	92	20	0.00	71	0	0.00	2.5	1.23	78.23	3065
3/14/10		West Overflow	26	12	10	28	75	15	14	82	18	0.00	64	0	0.00	2.5	1.23	78.75	894
	8:00	West Overflow	26	14	14	30	75	15	25	82	18	0.00	64	0	0.00	2.5	1.45	78.75	1357
	10:00	West Overflow	28	14	30	28	75	16	30	83	18	0.00	64	0	0.00	2.5	2.08	78.75	1136
	12:00	West Overflow	29	12	8	32	80	16	55	87	20	0.00	67	0	0.00	2.5	1.10	78.53	3925
	14:00	West Overflow	34	14	30	34	85	18	104	90	20	0.00	71	0	0.00	2.5	2.07	78.23	3935
	16:00	West Overflow	38	14	30	38	95	20	224	105	18	0.00	80	0	0.00	2.5	2.06	77.57	8436
	18:00	West Overflow	42	14	30	50	100	28	134	111	18	0.00	87	0	0.00	2.5	2.05	77.08	5035
	20:00	West Overflow	42	14	10	50	100	28	74	111	18	0.00	87	0	0.00	2.5	1.21	77.08	4717
3/15/10		West Overflow	28	12	9	30	95	16	18	93	22	0.00	82	0	0.00	2.5	1.17	77.43	1194
	8:00	West Overflow	28	14	30	30	95	16	28	93	22	0.00	82	0	0.00	2.4	2.08	75.87	1021
	10:00	West Overflow	32	12	10	32	100	18	8	99	20	0.00	84	0	0.00	2.6	1.23	78.82	515
	12:00	West Overflow	37	13	10	40	105	18	7	102	20	0.00	86	0	0.00	2.6	1.22	78.67	452
	14:00	West Overflow	43	14	30	48	110	22	138	113	20	0.00	93	0	0.00	2.5	2.05	76.66	5163
	16:00	West Overflow	43	12	30	52	118	24	242	132	18	0.00	107	0	0.00	2.4	2.06	74.18	8731
	18:00	West Overflow	50	12	30	55	120	32	179	133	18	0.00	111	0	0.00	2.5	2.04	75.44	6613
	20:00	West Overflow	50	10	5	55	120	32	65	133	18	0.00	111	0	0.00	2.5	0.85	75.44	5747
3/16/10		West Overflow	27	11	4	28	90	14	81	95	22	0.00	81	0	0.00	2.6	0.78	79.04	8223
	8:00	West Overflow	27	12	16	28	90	14	161	95	22	0.00	81	0	0.00	2.5	1.55	77.50	8041
	10:00	West Overflow	33	12	16	48	100	16	87	102	20	0.00	82	0	0.00	2.6	1.54	78.96	4454
	12:00	West Overflow	45	12	5	50	115	20	126	115	20	0.00	95	0	0.00	2.6	0.85	78.03	11502
	14:00	West Overflow	52	12	5	54	118	22	194	126	20	0.00	106	0	0.00	2.5	0.85	75.77	17333
	16:00	West Overflow	55	14	25	54	122	24	224	127	20	0.00	104	0	0.00	2.5	1.86	75.91	9146
	18:00	West Overflow	56	12	25	62	120	28	242	139	20	0.00	114	0	0.00	2.5	1.87	75.24	9762
	20:00	West Overflow	56	10	5	62	120	28	82	139	20	0.00	114	0	0.00	2.5	0.85	75.24	7282
3/17/10		West Overflow	30	10	4	32	95	12	107	102	20	0.00	88	0	0.00	2.5	0.78	77.01	10600
	8:00	West Overflow	30	12	10.5	32	95	12	173	102	20	0.00	88	0	0.00	2.5	1.26	77.01	10599
	10:00	West Overflow	32	12	10.5	38	110	16	212	109	20	0.00	94	0	0.00	2.5	1.26	76.59	12931
	12:00	West Overflow	44	12	9.5	50	115	18	178	118	20	0.00	98	0	0.00	2.5	1.18	76.31	11516
	14:00	West Overflow	54	12	3	60	120	22	210	139	22	0.00	113	0	0.00	2.5	0.65	75.31	24198
	16:00	West Overflow	56	8	3	62	124	24	216	132	20	0.00	111	0	0.00	2.5	0.66	75.44	24844
	18:00	West Overflow	58	8	3	62	120	24	197	135	20	0.00	113	0	0.00	2.5	0.65	75.31	22661
	20:00	West Overflow	58	4	0.5	62	120	24	55	135	20	0.00	113	0	0.00	2.5	0.26	75.31	15726
3/18/10		West Overflow	32	3	0.5	36	85	12	21	91	20	0.00	73	0	0.00	2.5	0.28	78.08	5803
	8:00	West Overflow	32	14	14	36	85	12	149	91	20	0.00	73	0	0.00	2.5	1.44	78.08	8071
	10:00	West Overflow	34	12	19	36	85	12	52	90	20	0.00	71	0	0.00	2.5	1.67	78.23	2430
	12:00	West Overflow	38	10	10	42	90	14	101	97	20	0.62	76	0	0.00	2.5	1.22	77.86	6438
	14:00	West Overflow	42	12	20	48	105	16	148	108	18	0.00	86	0	0.00	2.5	1.70	77.15	6713
	16:00	West Overflow	46	11	6	52	115	18	206	123	18	0.02	99	0	0.00	2.5	0.94	76.24	16773
	18:00	West Overflow	46	11	6	52	105	18	104	112	18	0.00	95	0	0.00	2.5	0.94	76.52	8495
	20:00	West Overflow	46	10	2	52	105	18	55	112	18	0.00	95	0	0.00	2.5	0.54	76.52	7831
3/19/10		West Overflow	34	9	1.5	34	95	12	37	99	20	0.00	85	0	0.00	2.5	0.47	77.22	6078
	8:00	West Overflow	34	13	13	34	95	12	112	99	20	0.00	85	0	0.00	2.5	1.39	77.22	6225
	10:00	West Overflow	34	13	15	38	100	14	64	101	20	0.00	85	0	0.00	2.5	1.49	77.22	3316
	12:00	West Overflow	40	12	15	44	105	14	107	103	20	0.00	83	0	0.00	2.5	1.48	77.36	5578

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																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	14:00	West Overflow	44	12	15	48	110	15	118	110	20	0.00	92	0	0.00	2.5	1.48	76.73	6126
	16:00	West Overflow	46	12	15	48	105	15	260	118	20	0.00	97	0	0.00	2.5	1.47	76.38	13466
	18:00	West Overflow	46	12	15	52	98	18	152	115	18	0.00	96	0	0.00	2.5	1.47	76.45	7880
	20:00	West Overflow	46	10	10	52	98	18	110	115	18	0.00	96	0	0.00	2.5	1.21	76.45	6940
3/20/10		West Overflow	26	12	9	26	90	8	47	92	20	0.00	78	0	0.00	2.5	1.17	77.72	3122
	8:00	West Overflow	26	12	23	26	90	8	68	92	20	0.00	78	0	0.00	2.6	1.85	79.26	2916
	10:00	West Overflow	32	12	25	34	100	10	31	98	20	0.00	84	0	0.00	2.6	1.91	78.82	1279
	12:00	West Overflow	38	12	26	44	108	14	46	103	20	0.00	87	0	0.00	2.6	1.93	78.60	1869
	14:00	West Overflow	46	12	26	50	110	16	250	116	18	0.00	94	0	0.00	2.6	1.92	78.10	10183
	16:00	West Overflow	50	12	17	52	115	18	296	130	18	0.00	104	0	0.00	2.6	1.56	77.41	14684
	18:00	West Overflow	48	11	4.5	54	120	22	114	132	18	0.00	106	0	0.00	2.6	0.81	77.27	10892
	20:00	West Overflow	48	11	4.5	54	120	22	114	132	18	0.00	106	0	0.00	2.6	0.81	77.27	10895
3/21/10		West Overflow	28	11	4	30	95	12	161	102	20	0.05	88	0	0.00	2.6	0.78	78.53	16256
	8:00	West Overflow	28	12	9	30	95	12	246	102	20	0.62	88	0	0.00	2.6	1.17	78.53	16544
	10:00	West Overflow	36	13	17	42	105	14	202	107	20	0.00	93	0	0.00	2.6	1.58	78.18	9986
	12:00	West Overflow	48	10	8	52	110	20	256	135	18	0.00	105	0	0.00	2.6	1.08	77.34	18302
	14:00	West Overflow	54	12	15	58	120	22	272	132	18	0.00	107	0	0.00	2.6	1.46	77.20	14365
	16:00	West Overflow	54	13	15	60	122	24	288	138	18	0.00	111	0	0.00	2.6	1.46	76.93	15164
	18:00	West Overflow	52	10	5	58	120	24	98	133	18	0.00	110	0	0.00	2.6	0.85	77.00	8871
	20:00	West Overflow	52	10	5	58	120	24	98	133	18	0.00	110	0	0.00	2.6	0.85	77.00	8871
3/22/10		West Overflow	38	10	4	40	82	54	65	94	20	0.00	74	0	0.00	2.4	0.77	76.43	6443
	8:00	West Overflow	38	12	30	40	82	54	169	94	20	0.00	74	0	0.00	2.4	2.07	76.43	6252
	10:00	West Overflow	38	12	8.5	40	82	54	101	95	20	0.08	74	0	0.00	2.2	1.12	73.18	6581
	12:00	West Overflow	42	13	30	46	92	50	101	96	20	0.00	76	0	0.00	2.3	2.05	74.68	3672
	14:00	West Overflow	47	10	9	60	95	48	208	108	20	0.00	82	0	0.00	2.3	1.15	74.27	13443
	16:00	West Overflow	49	13	16	58	95	54	232	108	20	0.00	84	0	0.00	2.3	1.51	74.13	11361
	18:00	West Overflow	45	11	15	50	95	52	202	107	20	0.00	84	0	0.00	2.3	1.48	74.13	10122
	20:00	West Overflow	45	10	3	50	95	52	80	107	20	0.00	84	0	0.00	2.4	0.66	75.73	9160
3/23/10		West Overflow	28	10	2.5	30	85	40	12	91	20	0.00	76	0	0.00	2.6	0.61	79.41	1554
	8:00	West Overflow	28	12	25	30	85	40	46	92	20	0.00	76	0	0.00	2.5	1.92	77.86	1867
	10:00	West Overflow	32	12	24	32	85	44	60	90	20	0.00	71	0	0.00	2.5	1.88	78.23	2502
	12:00	West Overflow	37	11	8	35	85	46	68	95	20	0.00	75	0	0.00	2.5	1.09	77.94	4853
	14:00	West Overflow	42	14	17	46	105	50	163	105	20	0.00	86	0	0.00	2.5	1.57	77.15	8021
	16:00	West Overflow	47	12	10	52	105	52	214	114	20	0.00	89	0	0.00	2.5	1.21	76.94	13643
	18:00	West Overflow	48	12	10	54	110	60	133	119	20	0.00	98	0	0.00	2.5	1.21	76.31	8420
	20:00	West Overflow	48	10	7	54	110	60	91	119	20	0.00	98	0	0.00	2.5	1.01	76.31	6866
3/24/10		West Overflow	28	10.5	6	30	95	44	10	95	20	0.00	82	0	0.00	2.5	0.96	77.43	811
	8:00	West Overflow	28	13	30	30	95	44	23	95	20	0.00	82	0	0.00	2.5	2.09	77.43	854
	10:00	West Overflow	34	10	6	36	100	48	130	105	20	0.00	85	0	0.00	2.5	0.95	77.22	10565
	12:00	West Overflow	43	12	10	48	110	52	212	112	20	0.06	93	0	0.00	2.5	1.21	76.66	13413
	14:00	West Overflow	48	10	4	50	112	55	222	125	20	0.00	102	0	0.00	2.5	0.76	76.04	22112
	16:00	West Overflow	52	8	3.5	54	115	55	232	127	20	0.00	103	0	0.00	2.5	0.71	75.97	24737
	18:00	West Overflow	52	10	3.5	54	120	60	242	129	20	0.00	106	0	0.00	2.5	0.71	75.77	25822
	20:00	West Overflow	52	10	1.5	54	120	60	117	129	20	0.00	106	0	0.00	2.5	0.46	75.77	19228
3/25/10		West Overflow	35	10	1.5	32	100	62	89	105	20	0.00	89	0	0.00	2.5	0.47	76.94	14587
	8:00	West Overflow	35	10	2	32	100	65	144	105	20	0.52	89	0	0.00	2.5	0.54	76.94	20389
	10:00	West Overflow	42	10	2	42	105	67	181	110	20	0.37	92	0	0.00	2.5	0.54	76.73	25738
	12:00	West Overflow	47	10	2	47	95	65	208	109	20	0.10	87	0	0.00	2.5	0.54	77.08	29866
	14:00	West Overflow	35	13	7	32	80	55	114	95	20	0.00	74	0	0.00	2.5	1.02	78.01	8710

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	16:00	West Overflow	42	13	7	42	95	65	193	102	20	0.28	83	0	0.00	2.5	1.01	77.36	14741
	18:00	West Overflow	37	13	7	38	89	58	142	95	20	0.00	75	0	0.00	2.5	1.02	77.94	10861
	20:00	West Overflow	37	10	5	38	85	58	111	85	20	0.00	75	0	0.00	2.5	0.86	77.94	10020
3/26/10		West Overflow	32	10	5	32	80	56	67	90	20	0.00	72	0	0.00	2.5	0.87	78.16	6028
	8:00	West Overflow	32	13	17	32	80	56	129	90	20	0.00	72	0	0.00	2.5	1.59	78.16	6350
	10:00	West Overflow	34	13	17	34	80	57	90	89	18	0.00	69	0	0.00	2.5	1.58	78.38	4453
	12:00	West Overflow	36	13	17	38	38	57	157	92	18	0.42	71	0	0.00	2.5	1.58	78.23	7770
	14:00	West Overflow	42	13	17	44	85	58	256	95	16	1.07	73	0	0.00	2.5	1.57	78.08	12729
	16:00	West Overflow	44	13	18	46	88	60	234	96	16	0.49	73	0	0.00	2.5	1.61	78.08	11338
	18:00	West Overflow	42	13	18	48	90	62	164	98	16	0.00	76	0	0.00	2.5	1.61	77.86	7908
	20:00	West Overflow	42	10	7	48	90	62	102	98	16	0.00	76	0	0.00	2.5	1.02	77.86	7797
3/27/10		West Overflow	26	12	6	30	80	50	11	87	22	0.00	71	0	0.00	2.5	0.96	78.23	901
	8:00	West Overflow	26	12	19	30	80	50	18	87	22	0.00	71	0	0.00	2.5	1.69	78.23	834
	10:00	West Overflow	30	12	19	32	85	74	24	90	20	0.00	72	0	0.00	2.5	1.68	78.16	1116
	12:00	West Overflow	35	12	19	48	90	75	39	93	20	0.00	75	0	0.00	2.5	1.67	77.94	1817
	14:00	West Overflow	40	12	20	48	100	78	146	102	20	0.03	83	0	0.00	2.5	1.70	77.36	6628
	16:00	West Overflow	44	12	20	50	105	82	324	115	20	0.28	92	0	0.00	2.5	1.70	76.73	14639
	18:00	West Overflow	46	12	19	52	115	90	230	122	20	0.00	99	0	0.00	2.5	1.65	76.24	10599
	20:00	West Overflow	46	6	4.5	52	115	90	108	122	20	0.00	99	0	0.00	2.5	0.82	76.24	10086
3/28/10		West Overflow	34	12	2.5	36	100	75	55	100	20	0.02	86	0	0.00	2.5	0.61	77.15	6981
	8:00	West Overflow	34	13	13	36	100	75	145	100	20	0.02	86	0	0.00	2.5	1.39	77.15	8052
	10:00	West Overflow	42	13	14	48	110	76	75	106	20	0.00	89	0	0.00	2.5	1.43	76.94	4037
	12:00	West Overflow	48	11	18	52	110	42	250	116	18	0.47	93	0	0.00	2.5	1.61	76.66	11901
	14:00	West Overflow	54	11	7	58	116	42	280	124	18	0.55	98	0	0.00	2.5	1.02	76.31	21015
	16:00	West Overflow	54	11	4.5	58	120	42	244	129	18	0.07	103	0	0.00	2.5	0.81	75.97	22935
	18:00	West Overflow	52	12	4.5	60	118	40	125	124	18	0.00	101	0	0.00	2.5	0.80	76.11	11828
	20:00	West Overflow	52	11	3	60	118	40	96	124	18	0.00	101	0	0.00	2.5	0.66	76.11	11141
3/29/10		West Overflow	46	10	2.5	48	100	40	142	109	20	0.14	91	0	0.00	2.5	0.60	76.80	18105
	8:00	West Overflow	46	10	2.5	48	100	40	142	109	20	0.14	91	0	0.00	2.5	0.60	76.80	18114
	10:00	West Overflow	48	12	8	50	110	40	147	112	20	0.08	93	0	0.00	2.5	1.08	76.66	10448
	12:00	West Overflow	52	12	3	52	105	40	173	117	20	0.08	95	0	0.00	2.5	0.65	76.52	20216
	14:00	West Overflow	55	10	2	54	110	40	163	120	20	0.00	98	0	0.00	2.5	0.53	76.31	23351
	16:00	West Overflow	56	10	2	55	116	40	164	123	20	0.05	103	0	0.00	2.5	0.53	75.97	23437
	18:00	West Overflow	55	10	2	54	120	40	189	126	20	0.05	105	0	0.00	2.5	0.53	75.84	26907
	20:00	West Overflow	55	8	1	54	120	40	96	126	20	0.00	105	0	0.00	2.5	0.37	75.84	19428
3/30/10		West Overflow	43	8	1	46	100	40	65	106	20	0.05	85	0	0.00	2.5	0.38	77.22	13237
	8:00	West Overflow	43	11	1.5	46	100	40	151	106	20	0.22	85	0	0.00	2.5	0.46	77.22	25103
	10:00	West Overflow	45	12	1.5	48	110	40	142	109	20	0.02	93	0	0.00	2.5	0.46	76.66	23513
	12:00	West Overflow	46	10	1	46	90	40	141	108	20	0.10	83	0	0.00	2.5	0.38	77.36	28779
	14:00	West Overflow	35	8	1	38	85	40	127	96	20	0.04	77	0	0.00	2.5	0.38	77.79	25846
	16:00	West Overflow	37	8	2	38	80	40	132	89	20	0.00	70	0	0.00	2.5	0.54	78.30	19004
	18:00	West Overflow	35	12	2	34	80	40	108	87	20	0.08	67	0	0.00	2.5	0.54	78.53	15655
	20:00	West Overflow	35	8	1	34	80	40	48	82	20	0.02	67	0	0.00	2.5	0.38	78.53	9850
3/31/10	14:00	West Overflow	38	9	3	40	110	52	91	57	23	0.00	57	12	0.00	2.94	0.67	85.98	11730
	16:00	West Overflow	42	8	1.5	42	112	52	107	110	23	0.00	67	12	0.00	3.17	0.47	88.42	20237
	18:00	West Overflow	44	7	1.5	42	126	52	75	126	24	0.00	68	12	0.00	3.22	0.47	89.03	14305
	20:00	West Overflow	44	7	1	42	126	52	43	126	24	0.00	68	12	0.00	3.22	0.38	89.03	10092
4/1/10		West Overflow	32	7	0.5	32	118	54	10	123	24	0.00	83	12	0.00	3.13	0.27	86.56	3210
	8:00	West Overflow	32	9	28	32	118	54	64	123	24	0.00	83	12	0.00	3.04	2.03	85.31	2696

Table 2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Lift Station Manhole Confine Space Evacuation

																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	10:00	West Overflow	32	9	25	30	124	55	94	126	24	0.00	83	12	0.00	3.07	1.92	85.73	4198
	12:00	West Overflow	34	9	26	34	126	54	102	131	24	0.00	87	12	0.00	3.17	1.95	86.79	4535
	14:00	West Overflow	48	9	18	44	128	54	155	145	24	0.00	98	12	0.00	3.05	1.62	84.29	8088
	16:00	West Overflow	50	9	17.5	46	130	54	165	141	24	0.00	98	12	0.00	3.09	1.59	84.84	8798
	18:00	West Overflow	50	9	17	48	132	54	118	144	24	0.00	99	12	0.00	3.02	1.57	83.80	6307
	20:00	West Overflow	50	6.5	4.5	48	132	54	54	114	24	0.00	99	12	0.00	3.02	0.81	83.80	5569
4/2/10		West Overflow	30	7	4.5	30	112	56	29	121	24	0.00	75	12	0.00	3.07	0.83	86.36	3023
	8:00	West Overflow	30	9	30	30	112	56	80	121	24	0.00	75	12	0.00	3.07	2.10	86.36	3298
	10:00	West Overflow	46	9	23	44	127	56	195	137	24	0.00	89	12	0.00	3.07	1.82	85.26	9136
	12:00	West Overflow	48	7.5	10.5	46	142	56	214	156	24	0.00	105	12	0.00	3.1	1.24	84.45	14524
	14:00	West Overflow	52	8	8	52	142	56	288	157	24	0.00	108	12	0.00	3.06	1.08	83.68	22297
	16:00	West Overflow	48	8	8	48	138	56	238	145	29	0.00	101	12	0.00	3.05	1.09	84.06	18438
	18:00	West Overflow	46	8	8	46	134	56	216	140	24	0.00	95	12	0.00	3.03	1.09	84.24	16734
	20:00	West Overflow	46	6.5	3	46	134	56	102	140	24	0.00	95	12	0.00	3.03	0.66	84.24	12938
4/3/10		West Overflow	30	7	2.5	30	105	46	16	111	23	0.00	72	10	0.00	2.83	0.61	83.15	2164
	8:00	West Overflow	30	7	10	30	105	46	37	111	23	0.00	72	10	0.00	2.73	1.24	81.67	2443
	10:00	West Overflow	32	8	10	32	110	58	85	115	18	0.00	74	10	0.00	2.69	1.23	80.92	5578
	12:00	West Overflow	38	8	20	40	118	45	66	119	27	0.00	76	15	0.00	3.53	1.72	92.52	3550
	14:00	West Overflow	42	8	20	40	112	58	143	122	28	0.00	86	18	0.00	3.58	1.71	92.32	7707
	16:00	West Overflow	42	10	20	42	120	58	244	131	28	0.00	91	14	0.00	3.57	1.71	91.77	13124
	18:00	West Overflow	46	8	21	40	122	58	240	140	26	0.00	96	14	0.00	3.56	1.75	91.23	12541
	20:00	West Overflow	46	8	4	40	122	58	94	140	26	0.00	96	14	0.00	3.6	0.77	91.74	11240
4/4/10		West Overflow	30	8	5	34	110	50	24	131	22	0.00	92	14	0.00	3.6	0.87	92.07	2531
	8:00	West Overflow	30	10	30	34	110	50	64	131	22	0.00	92	14	0.00	3.0	2.09	84.05	2572
	10:00	West Overflow	46	8	10	50	140	50	16	151	22	0.00	104	14	0.00	2.9	1.22	81.75	1076
	12:00	West Overflow	48	9	30	48	132	58	110	146	22	0.00	106	14	0.00	3.0	2.06	83.00	4442
	14:00	West Overflow	52	8	8	50	142	58	274	167	22	0.00	111	14	0.00	3.0	1.08	82.64	20949
	16:00	West Overflow	50	8	5	50	135	58	244	158	22	0.00	107	14	0.00	2.9	0.85	81.54	23272
	18:00	West Overflow	48	9	5	48	138	58	230	159	22	0.00	109	14	0.00	2.9	0.86	81.39	21888
	20:00	West Overflow	48	7	1	48	138	58	92	159	22	0.00	109	14	0.00	2.9	0.38	81.39	19795
4/5/10		West Overflow	40	7.5	1	60	132	58	79	149	20	0.00	104	14	0.00	2.9	0.39	81.75	16415
	8:00	West Overflow	40	7.5	4	60	132	58	234	149	20	0.00	104	14	0.00	2.9	0.76	81.75	25221
	10:00	West Overflow	50	9	4	58	140	56	220	162	20	0.00	115	14	0.00	2.9	0.76	80.97	23363
	12:00	West Overflow	64	9	10	62	150	54	104	159	20	0.00	119	14	0.00	2.9	1.19	80.69	7044
	14:00	West Overflow	54	9	8	56	146	54	222	161	20	0.00	115	14	0.00	2.9	1.08	80.97	16688
	16:00	West Overflow	48	9	8	48	142	56	212	174	20	0.00	123	14	0.00	2.9	1.08	80.41	15735
	18:00	West Overflow	40	9	8	46	140	58	182	154	20	0.00	104	14	0.00	2.9	1.09	81.75	13623
	20:00	West Overflow	40	9	4	46	140	58	101	154	20	0.00	104	14	0.00	2.9	0.77	81.75	10714
4/6/10		West Overflow	32	9	4	32	110	56	17	123	20	0.00	79	14	0.00	2.9	0.78	83.63	1830
	8:00	West Overflow	32	10	30	32	110	56	44	123	20	0.00	79	14	0.00	2.9	2.09	83.63	1763
	10:00	West Overflow	34	10	30	42	120	56	66	126	20	0.00	85	14	0.00	2.9	2.08	83.17	2636
	12:00	West Overflow	36	10	30	58	132	58	55	136	20	0.00	88	14	0.00	2.9	2.08	82.94	2196
	14:00	West Overflow	42	10	30	56	130	58	220	144	22	0.00	97	14	0.00	3.0	2.07	83.67	8912
	16:00	West Overflow	60	10	30	52	140	58	120	149	22	0.00	104	14	0.00	2.9	2.03	81.75	4835
	18:00	West Overflow	54	10	30	50	138	55	196	152	22	0.00	104	14	0.00	3.0	2.04	83.15	7989
	20:00	West Overflow	54	8	8	50	138	55	105	152	22	0.00	104	14	0.00	2.9	1.08	81.75	7957
4/7/10		West Overflow	36	8	8	38	122	56	15	128	24	0.00	85	12	0.00	3.2	1.10	87.36	1193
	8:00	West Overflow	36	9	30	38	122	56	30	128	24	0.00	85	12	0.00	3.2	2.08	87.36	1260
	10:00	West Overflow	48	9	30	50	142	55	91	137	22	0.00	94	12	0.00	2.9	2.06	82.49	3650

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																	CALCULATED VALUE		
DATE	TIME	SOURCE					PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	LOCATION	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	East/West	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	12:00	West Overflow	56	9	19	54	145	55	105	147	21	0.00	98	12	0.00	2.9	1.65	82.19	5244
	14:00	West Overflow	62	9	19	58	154	54	274	164	21	0.00	115	12	0.00	2.9	1.63	80.97	13573
	16:00	West Overflow	64	10	19	58	152	54	296	173	21	0.00	120	12	0.00	2.9	1.63	80.62	14645
	18:00	West Overflow	62	10	18.5	56	148	54	274	172	21	0.00	124	12	0.00	2.9	1.61	80.34	13655
	20:00	West Overflow	62	8	3.5	56	148	54	98	172	21	0.00	124	12	0.00	2.9	0.71	80.34	11158
4/8/10		West Overflow	44	9	3	48	124	55	29	127	20	0.00	84	12	0.00	2.8	0.66	81.79	3578
	8:00	West Overflow	44	9.5	30	48	124	55	91	127	20	0.00	84	12	0.00	2.8	2.06	81.79	3610
	10:00	West Overflow	50	9.5	30	52	130	55	175	139	20	0.00	92	12	0.00	2.9	2.05	82.64	7053
	12:00	West Overflow	52	9.5	18	60	138	54	156	154	22	0.00	103	12	0.00	2.9	1.61	81.83	7939
	14:00	West Overflow	60	9	14.5	66	152	54	294	174	22	0.00	119	12	0.00	2.9	1.44	80.69	16509
	16:00	West Overflow	62	9	14.5	62	150	54	278	168	22	0.00	119	12	0.00	2.9	1.43	80.69	15638
	18:00	West Overflow	64	9	14.5	62	150	53	128	173	22	0.00	121	12	0.00	2.9	1.43	80.55	7202
	20:00	West Overflow	64	7	10	62	150	53	103	173	22	0.00	121	12	0.00	2.9	1.20	80.55	6936
4/9/10		West Overflow	30	7	11	32	118	57	35	126	22	0.00	84	12	0.00	2.9	1.30	83.24	2245
	8:00	West Overflow	30	9	29	32	118	57	57	126	22	0.00	84	12	0.00	2.9	2.06	83.24	2302
	10:00	West Overflow	42	9	29	42	128	56	80	134	23	0.00	87	12	0.00	2.9	2.04	83.01	3260
	12:00	West Overflow	52	9	14.5	54	146	55	182	153	23	0.00	106	12	0.00	2.9	1.45	81.61	10246
	14:00	West Overflow	60	8.5	14.5	54	148	55	254	165	23	0.00	119	12	0.00	2.9	1.44	80.69	14252
	16:00	West Overflow	60	9	14.5	52	144	55	244	172	22	0.00	122	12	0.00	3.0	1.44	81.85	13897
	18:00	West Overflow	58	9	14.5	52	142	54	260	171	22	0.00	124	12	0.00	2.9	1.44	80.34	14507
	20:00	West Overflow	58	8	3.5	52	142	54	107	171	22	0.00	126	12	0.00	2.9	0.71	80.20	12115
4/10/10		West Overflow	30	9	7	64	126	56	67	141	22	0.00	94	14	0.00	2.9	1.03	82.49	5353
	8:00	West Overflow	30	9	10	64	126	56	106	141	22	0.00	94	14	0.00	2.9	1.23	82.49	7090
	10:00	West Overflow	42	9	5	50	138	57	175	151	22	0.00	98	14	0.00	2.9	0.86	82.19	16718
	12:00	West Overflow	56	9	5	60	150	57	206	173	22	0.00	124	14	0.00	2.9	0.85	80.34	19496
	14:00	West Overflow	52	9	5	52	142	57	262	175	22	0.00	124	14	0.00	2.9	0.85	80.34	24708
	16:00	West Overflow	60	9	5	55	150	57	232	182	22	0.00	132	14	0.00	2.9	0.85	79.80	21898
	18:00	West Overflow	64	9	5	62	150	57	185	174	22	0.00	129	14	0.00	2.9	0.84	80.00	17577
	20:00	West Overflow	64	7.5	1.8	62	150	57	105	174	22	0.00	129	14	0.00	2.9	0.50	80.00	16734
4/11/10		West Overflow	54	8	1.5	56	140	56	44	140	20	0.00	106	14	0.00	2.7	0.46	78.74	7507
	8:00	West Overflow	54	9	13	56	140	56	210	140	20	0.00	106	14	0.00	2.8	1.37	80.19	12288
	10:00	West Overflow	55	9	13	60	142	57	115	148	20	0.00	103	14	0.00	2.8	1.37	80.40	6754
	12:00	West Overflow	57	10	15	62	150	57	100	153	20	0.00	107	14	0.00	2.8	1.46	80.12	5474
	14:00	West Overflow	56	9	8	62	148	57	232	162	20	0.00	114	14	0.00	2.8	1.08	79.63	17185
	16:00	West Overflow	60	9	6	60	150	17	232	165	20	0.00	116	14	0.00	2.8	0.93	79.49	19905
	18:00	West Overflow	58	9	6	57	150	58	230	167	20	0.00	118	14	0.00	2.8	0.93	79.35	19658
	20:00	West Overflow	58	7	2	57	150	58	106	167	20	0.00	118	14	0.00	2.8	0.53	79.35	15765
4/12/10		West Overflow	58	7	2	60	148	58	62	151	20	0.00	107	14	0.00	2.7	0.53	78.67	9142
	8:00	West Overflow	58	9.5	12	60	148	58	195	151	20	0.00	107	14	0.00	2.8	1.31	80.12	11913
	10:00	West Overflow	70	10	7	70	150	54	131	157	20	0.00	115	14	0.00	2.9	0.99	80.97	10711
	12:00	West Overflow	70	9	10	70	150	54	210	159	20	0.00	115	14	0.00	2.7	1.18	78.13	13850
	14:00	West Overflow	64	8	10	62	152	54	216	174	20	0.00	124	14	0.00	2.8	1.19	78.94	14287
	14:00	West Overflow	62	5	1	62	152	52	246	172	22	0.07	124	14	0.00	2.8	0.37	78.94	51944
	15:30	West Overflow	54	8	2	54	138	54	286	165	22	0.38	118	14	0.00	2.8	0.53	79.35	42435
	16:00	West Overflow	50	9	2	50	132	54	288	161	22	1.63	113	14	0.00	2.8	0.54	79.70	42814
	18:00	West Overflow	42	9	2	54	128	56	382	155	22	4.06	105	14	0.00	2.8	0.54	80.26	56738
	20:00	West Overflow	42	10	5	54	128	56	5	154	24	0.00	104	14	0.00	2.8	0.86	80.33	468
4/13/10	6:00	West Overflow	38	9	5	56	120	53	56	127	22	0.00	87	14	0.00	2.80	0.86	81.57	5288

Table 3 - Industrial Hygiene Area Sampling			
DATE	TIME	Lift Station Area IH	
	HOUR	PH3	Wind
MM/DD/YY	0-23 H	ppm	Direction
2/25/10	6:00	0.00	
	12:00	0.03	
	20:00	0.56	
2/26/10	6:00	0.72	
	12:00	2.68	
	16:00	4.32	
2/27/10	8:00	9.70	
	14:00	0.24	
	16:00	7.70	
2/28/10	8:00	0.08	
	12:00	0.66	
	18:00	0.68	
3/1/10	8:00	0.00	
	14:00	0.13	
	18:00	1.71	
3/2/10	6:00	0.00	
	8:00	0.00	
	12:00	0.16	
	16:00	8.20	
3/3/10	8:00	0.22	
	12:00	1.79	
	16:00	1.61	
3/4/10	8:00	13.10	
	12:00	3.94	
	16:00	0.50	
3/5/10	8:00	0.57	
	18:00	0.84	
3/6/10	8:00	0.84	
	12:00	8.35	
	16:00	1.14	
	20:00	1.25	
3/7/10	8:00	0.34	W
	12:00	5.94	N
	18:00	5.19	S
3/8/10	8:00	0.02	W
	18:00	2.90	SW
3/9/10	8:00	1.20	SW
	12:00	2.82	W
	18:00	4.30	SW
3/10/10	8:00	1.48	SW
	12:00	3.68	W
	18:00	1.50	W
3/11/10	8:00	0.92	SW
	12:00	1.62	W
	16:00	4.84	W
3/12/10	8:00	1.48	NW
	12:00	20+	NE
	16:00	20+	SW

Table 3 - Industrial Hygiene Area Sampling			
DATE	TIME	Lift Station Area IH	
	HOUR	PH3	Wind
MM/DD/YY	0-23 H	ppm	Direction
3/13/10	8:00	1.29	S
3/14/10	8:00	0.23	SW
	12:00	1.14	SW
	18:00	0.51	SW
3/15/10	8:00	0.15	S
	12:00	0.07	N
3/16/10	8:00	0.57	S
	12:00	2.14	E
	18:00	1.82	E
3/17/10	8:00	2.22	S
	12:00	20+	NE
	16:00	20+	NW
3/18/10	8:00	3.70	W
	12:00	5.65	SW
	18:00	5.55	SW
3/19/10	8:00	0.12	NE
	12:00	4.92	NE
	18:00	8.25	N
3/20/10	8:00	0.07	no wind
	12:00	1.22	NW
	16:00	9.10	SW
3/21/10	8:00	1.23	SW
	12:00	20+	E
	16:00	20+	S
3/22/10	6:00	2.02	SW
	12:00	5.45	W
3/23/10	8:00	0.07	SW
	12:00	0.62	W
	18:00	1.00	SW
3/24/10	6:00	0.00	SE
	12:00	7.10	NE
	18:00	8.95	SW
3/25/10	8:00	1.53	NW
3/26/10	8:00	2.60	SW
	12:00	4.40	SW
	16:00	8.50	SW
3/27/10	8:00	0.69	S
	12:00	1.07	SW
	16:00	4.08	W
3/28/10	8:00	0.48	N
	12:00	13.60	S
	16:00	10.90	S
3/29/10	8:00	3.16	SW
	12:00	4.56	SW
	18:00	4.38	S
3/30/10	8:00	2.72	W
	12:00	4.92	W

Table 3 - Industrial Hygiene Area Sampling			
DATE	TIME	Lift Station Area IH	
	HOUR	PH3	Wind
MM/DD/YY	0-23 H	ppm	Direction
	18:00	0.97	W
3/31/10	16:00	16.90	W
4/1/10	8:00	3.70	SW
	12:00	6.70	SW
	16:00	6.75	SW
4/2/10	8:00	1.32	SW
	12:00	13.00	SW
	16:00	20+	S
4/3/10	6:00	1.12	SW
	12:00	2.18	W
4/4/10	6:00	0.00	N
	12:00	1.04	S
4/5/10	6:00	4.82	W
	12:00	1.17	NW
	18:00	1.89	NW
4/6/10	6:00	0.24	W
	18:00	2.78	W
4/7/10	8:00	0.50	SW
	12:00	6.90	SW
	16:00	8.30	SW
4/8/10	8:00	5.90	S
	12:00	6.65	S
	16:00	11.50	W
4/9/10	8:00	0.88	SW
	12:00	11.90	W
	16:00	10.50	W
4/10/10	8:00	0.06	no wind
	12:00	20+	N
	18:00	8.15	SW
	20:00	20+	SW
4/11/10	8:00	0.75	N
	12:00	1.94	SE
	18:00	4.88	S
4/12/10	8:00	1.31	S
	12:00	3.08	SW
4/13/10	6:00	2.22	WSW
	12:00	1.97	W
	16:00	1.69	SW
4/14/10	8:00	1.35	SW
	12:00	3.30	W
	16:00	6.20	SW
4/15/10	6:00	0.00	no wind
	10:00	2.08	NE
	14:00	18.20	E
4/17/10	2:00	0.00	NE
	8:00	9.45	SW
	12:00	10.50	SW
	16:00	13.00	W

Table 3 - Industrial Hygiene Area Sampling			
DATE	**TIME**	**Lift Station Area IH**	
	HOUR	**PH3**	**Wind**
MM/DD/YY	**0-23 H**	**ppm**	**Direction**
4/18/10	8:00	5.90	no wind
	12:00	20+	E
	16:00	20+	W
4/19/10	2:00	8.60	Still
	8:00	0.07	SW
	12:00	0.00	NE
	18:00	2.38	SSW
4/20/10	0:00	2.10	Still
	8:00	0.40	SW
	12:00	4.40	S
4/21/10	0:00	5.95	calm
	8:00	9.45	NW
	18:00	1.30	WSW
4/22/10	2:00	9.80	ESE
	8:00	0.72	SW
	14:00	0.88	SSW
	20:00	0.18	W
4/23/10	8:00	12.70	SW
	14:00	14.50	SW
	20:00	0.42	SW
	22:00		

Table 4.1 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Perimeter piping Extraction (Unit 1)

																CALCULATED VALUE		
DATE	TIME	SOURCE				PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
4/16/2010	0:00										0			0		0.00	0.0	
	2:00										0			0		0.00	0.0	
	4:00										0			0		0.00	0.0	
	6:00										0			0		0.00	0.0	
	8:00	40	7	1	42	132	46	214	143	26	4.22	104	14	0.07	3.49	0.38	89.7	50389
	10:00	58	7	1	64	148	48	246	136	28	5.8	120	14	0	3.46	0.37	88.1	57867
	12:00	78	8	1.2	68	162	48	120	170	28	0.12	135	14	0	3.37	0.40	85.8	25589
	14:00										0			0		0.00	0.0	
	16:00	80	7	1	78	164	46	92	179	26	0	135	14	0	3.32	0.37	85.2	21402
	18:00	72	8	1	74	156	44	236	168	26	0.07	128	14	0	3.31	0.37	85.5	54754
	20:00	68	8	1	63	152	45	250	172	44	0.15	128	14	0	3.39	0.37	86.6	58505
	22:00	68	8	1	68	150	45	228	175	27	0.1	123	14	0	3.45	0.37	87.7	54053
4/17/2010	0:00	60	8	1	58	140	45	180	250	27	0.2	129	12	0	3.4	0.37	86.6	41826
	2:00	54	7	1	56	140	45	153	156	28	0.44	111	14	0	3.41	0.38	88.1	35891
	4:00	50	8	1	52	140	44	154	164	28	0.31	117	14	0	3.48	0.38	88.5	36209
	6:00	47	8	1	50	135	30	197	158	28	0.49	116	14	0	3.52	0.38	89.1	46485
	8:00	52	9	1.5	52	142	46	244	156	28	0.99	111	16	0	3.49	0.46	89.1	47100
	10:00	68	8.5	1.5	70	152	48	306	171	28	0.43	123	13	0	3.34	0.46	86.3	58029
	12:00	74	8.5	1.8	76	160	46	252	174	28	0.47	130	13	0	3.37	0.50	86.2	43734
	14:00	82	8.5	0.8	80	162	46	240	183	26	0.38	138	13	0	3.34	0.33	85.2	62822
	16:00	84	9	1	78	164	46	214	187	26	0.13	139	13	0	3.45	0.36	86.5	50915
	18:00	74	9	1.8	72	160	46	252	183	26	0.33	144	13	0	3.41	0.50	85.7	43513
	20:00	68	8	1.5	66	153	44	180	193	34	2.4	142	13	0	3.5	0.46	86.9	34363
	22:00	50	8	1.5	50	145	45	322	168	28	6.8	121	14	0	3.48	0.46	88.2	61340
4/18/2010	0:00	48	8	1	50	140	40	295	168	27	4.5	124	14	0	3.54	0.38	88.8	69400
	2:00	50	8	1	50	140	45	310	172	28	3.3	123	14	0	3.55	0.38	89.0	73229
	4:00	50	8	1.5	46	131	46	242	170	28	3.2	125	14	0	3.56	0.46	88.9	46452
	6:00	45	8	1	45	133	45	246	164	28	5.5	114	14	0	3.52	0.38	89.3	58037
	8:00	42	9	1	42	132	46	228	159	28	5.8	116	14	0	3.53	0.38	89.3	53682
	10:00	60	9	0.8	64	150	46	194	168	28	6.3	124	14	0	3.48	0.33	88.0	51414
	12:00	78	9	0.8	76	162	46	216	178	28	2.28	136	14	0	3.51	0.33	87.5	57886
	14:00	84	9	1	82	168	46	250	182	28	1.56	142	14	0	3.39	0.36	85.6	58814
	16:00	82	9	1.5	80	164	46	210	195	28	4.58	144	14	0	3.47	0.45	86.4	40481
	18:00	82	9.5	1.5	84	168	44	246	190	28	1.64	152	14	0	3.5	0.45	86.2	47332
	20:00	69	8.5	3	54	160	43	190	181	28	1.62	139	14	0	3.52	0.65	87.4	25669
	22:00	52	8	2	52	140	48	245	169	28	4.4	124	14	0	3.23	0.54	84.8	38766
4/19/2010	0:00	49	6	1	50	138	38	233	168	30	7.55	120	14	0	3.57	0.38	89.4	55127
	2:00	42	8	1	44	134	35	250	160	38	7.5	118	14	0	3.35	0.38	86.8	57159
	4:00	46	8	2	38	138	44	270	153	28	12.7	110	14	0	3.56	0.54	90.1	45132
	6:00	32	8	1	42	122	36	250	157	30	15.1	113	14	0	3.62	0.38	90.6	59025
	8:00	48	9	1	52	142	44	246	156	28	4.5	115	14	0	3.5	0.38	88.9	58080
	10:00	56	9	1	60	150	46	228	158	28	7.5	119	14	0	3.5	0.37	88.6	54060
	12:00	80	9.5	0.5	80	160	46	248	176	28	4.7	136	14	0	3.41	0.26	86.2	83586
	14:00	90	9.5	1	90	174	46	242	185	28	3.82	150	14	0	3.46	0.36	85.9	57496
	16:00	92	9.5	1	90	168	44	260	191	28	2.68	151	14	0	3.48	0.36	86.0	62007
	18:00	92	9	1	90	174	44	298	195	28	4.12	155	14	0	3.42	0.36	85.0	70176
	20:00	68	10	1	64	153	43	258	190	28	5.65	148	14	0	3.45	0.37	85.9	60049
	22:00	62	9	2	62	147	42	298	158	26	17.4	138	14	0	3.45	0.53	86.6	48751
4/20/2010	0:00	56	10	0.5	60	149	36	150	181	27	5.75	140	15	0	3.51	0.26	87.2	50008
	2:00	47	9	0.5	47	137	45	158	164	28	9.75	124	14	0	3.59	0.26	89.4	53386
	4:00										0			0		0.00	0.0	

Table 4.1 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Perimeter piping Extraction (Unit 1)

																CALCULATED VALUE		
DATE	TIME	SOURCE				PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
	6:00										0			0		0.00	0.0	
	8:00	50	0	0	54	140	40	0	117	20	0	42	14	0	3.5	0.00	95.2	
	10:00	74	9	2	80	160	44	165	161	20	0	82	14	0	3.51	0.52	91.7	28926
	12:00	80	10	2.5	82	160	44	234	158	20	0	79	16	0	3.38	0.58	90.3	36274
	14:00	82	9	1.5	82	162	46	278	176	20	0	134	14	0	3.49	0.45	87.4	54193
	16:00	86	9.5	2.25	86	166	46	292	170	20	0	136	14	0	3.44	0.55	86.6	46076
	18:00	81	9	1.5	82	160	45	254	177	20	0	138	15	0	3.45	0.45	86.6	49020
	20:00	68	8	1	69	150	45	254	162	22	0	125	16	0	3.57	0.37	89.1	61126
	22:00	66	10	1	68	150	36	230	164	24	0	123	15	0	3.59	0.37	89.5	55681
4/21/2010	0:00	59	10	1	58	155	45	268	162	22	0	126	16	0	3.62	0.37	89.6	64553
	2:00	50	10	1.5	52	133	45	260	144	21	0	111	15	0	3.56	0.46	90.0	50666
	4:00	49	10	0.5	50	130	45	229	146	27	0	100	16	0	3.55	0.26	90.8	78847
	6:00	49	10	1	51	138	46	230	147	22	0	103	16	0	3.6	0.38	91.2	55794
	8:00	54	10	1	58	140	46	222	146	22	0	111	16	0	3.53	0.37	89.6	53211
	10:00	50	11	1	50	132	46	298	136	22	0	103	16	0	3.48	0.37	89.6	71259
	12:00	62	11	1.25	60	142	46	274	146	22	0	104	16	0	3.53	0.42	90.2	59548
	14:00	60	9.5	1	58	140	46	266	155	27	0	120	16	0	3.54	0.37	89.1	63673
	16:00	50	12	0.75	50	130	46	248	146	22	0	114	16	0	3.54	0.32	89.5	68766
	18:00	48	12	1	48	130	46	252	125	22	0	97	16	0	3.48	0.38	90.1	60548
	20:00	48	14	1	50	130	50	232	123	22	0	94	16	0	3.5	0.37	90.6	56224
	22:00	48	12	0.5	50	122	47	230	144	22	0	98	16	0	3.52	0.26	90.6	79242
4/22/2010	0:00	47	8	1	50	132	46	256	143	22	0	106	16	0	3.54	0.38	90.2	61115
	2:00	48	10	1	50	130	47	232	136	22	0	104	16	0	3.54	0.38	90.3	55696
	4:00	47	10	1	50	130	45	238	140	22	0	104	16	0	3.87	0.38	94.4	59687
	6:00	47	10	1	48	130	47	230	144	22	0.09	106	16	0	3.53	0.38	90.0	54990
	8:00	48	10	1	48	132	47	272	147	22	0	104	16	0	3.54	0.38	90.3	65303
	10:00	42	12	1	42	120	46	244	123	22	0	95	16	0	3.47	0.38	90.1	58296
	12:00	40	12	5.5	42	120	52	278	114	22	0	81	16	0	3.51	0.90	91.8	28357
	14:00	40	14	2	46	128	46	264	121	22	0	82	16	0	3.47	0.54	91.2	44815
	16:00	48	16	2	48	128	46	314	138	22	0	90	16	0	3.69	0.53	93.4	55227
	18:00	42	8	2	46	126	46	326	135	22	0	98	16	0	3.55	0.54	90.9	54780
	20:00	40	8	2	46	122	44	244	136	22	0	95	16	0	3.63	0.54	92.2	41493
	22:00	39	10	1	46	118	45	260	129	22	0	91	16	0	3.55	0.38	91.5	62685
4/23/2010	0:00	37	10	1	38	112	47	204	121	22	0	81	16	0	3.65	0.38	93.6	50215
	2:00	32	12	1	42	112	45	185	125	22	0	85	22	0	3.65	0.38	93.3	45274
	4:00	32	12	1	40	115	45	250	130	22	0.02	89	16	0	3.67	0.38	93.2	61122
	6:00	36	14	1	45	118	48	170	129	22	0	90	16	0	3.63	0.38	92.6	41591
	8:00	42	27	0.5	44	128	47	165	137	24	0	99	16	0	3.6	0.26	91.5	58426
	10:00	50	27	0.5	52	132	56	163	139	24	0	99	16	0	3.6	0.26	91.5	58178
	12:00	58	14	2.5	58	138	57	200	142	24	0	105	17	0	3.62	0.59	91.3	30879
	14:00	60	16	1	60	140	45	150	141	24	0	105	17	0	3.59	0.37	90.9	36995
	16:00	68	18	2.5	64	144	46	212	147	24	0	105	16	0	3.52	0.58	90.0	32786
	18:00	69	29	1.5	67	149	46	193	151	22	0	113	16	0	3.49	0.44	89.0	39025
	20:00	50	14	2	50	132	46	254	135	22	0	98	16	0	3.56	0.53	91.1	43517
	22:00	46	15	5	47	128	46	220	127	22	0	89	16	0	3.62	0.85	92.6	23985

Table 4.2 - Gas Extraction System(GES) Daily Log for FMC Pond 15S Perimeter piping Extraction (Unit 2)

																CALCULATED VALUE		
DATE	TIME	SOURCE				PRIMARY TREATMENT						SECONDARY OUTLET			T-FLOW	INLET	TOTAL	SOURCE
	HOUR	TI-1	PI-1	FI-1	TI-2	TI-3	PI-2	PH3 (IN)	TI-4	PI-3	PH3 (OUT)	TI-5	PI-4	PH3	FI-2	FLOW	FLOW	PH3
MM/DD/YY	0-23 H	DEG F	-"H20	"H20	DEG F	DEG F	"H20	PPM	DEG F	"H20	PPM	DEG F	"H20	PPM	"H20	SCFM	SCFM	PPM
4/16/2010	0:00			5	50	140	160	200	170	20	0	140	10	0	2.88	0.00	79.0	
	2:00										0			0		0.00	0.0	
	4:00										0			0		0.00	0.0	
	6:00										0			0		0.00	0.0	
	8:00										0			0		0.00	0.0	
	10:00										0			0		0.00	0.0	
	12:00										0			0		0.00	0.0	
	14:00										0			0		0.00	0.0	
	16:00	78	8	0.5	84	155	28	54	160	46	0.57	118	18	0	3.51	0.26	88.8	18674
	18:00	68	7	0.8	74	136	28	67	114	38	0	99	18	0	3.38	0.33	88.7	17970
	20:00	64	7	0.1	68	134	26	48	133	42	0.04	103	18	0	3.29	0.11	87.2	36622
	22:00	60	8	0.1	60	150	28	62	132	44	0	105	20	0	3.45	0.11	89.1	48263
4/17/2010	0:00	58	8	0.1	60	150	30	40	120	44	0	98	20	0	4.12	0.11	98.0	34172
	2:00	53	8	1	56	146	30	17	115	42	0	88	20	0	4.22	0.38	100.0	4530
	4:00	50	8	1	50	140	32	30	115	43	0	91	20	0	4.19	0.38	99.4	7920
	6:00	47	8	1	48	135	32	30	112	44	0	98	20	0	4.36	0.38	100.8	8004
	8:00	50	7.5	2.5	56	138	38	136	114	38	0.04	88	20	0	3.84	0.60	95.4	21554
	10:00	68	8	0.8	70	152	36	43	134	39	0	103	20	0	3.76	0.33	93.2	12139
	12:00	72	8.5	1.2	74	158	36	54	128	42	0.03	103	20	0	3.69	0.40	92.3	12327
	14:00	78	9	1	78	162	36	83	135	44	0	109	19	0	3.59	0.37	90.6	20554
	16:00	78	9	1	78	164	36	117	138	44	0	113	19	0	3.65	0.37	91.0	29102
	18:00	72	9.5	1.8	76	158	36	112	139	44	0.02	113	19	0	3.72	0.50	91.9	20715
	20:00	64	9	1	72	158	36	75	135	35	0.08	107	16	0	3.47	0.37	89.2	18033
	22:00	48	10	1	54	156	40	101	120	36	0.04	91	8	0	3.43	0.38	90.0	24158
4/18/2010	0:00										0			0		0.00	0.0	
	2:00										0			0		0.00	0.0	
	4:00										0			0		0.00	0.0	
	6:00										0			0		0.00	0.0	
	8:00										0			0		0.00	0.0	
	10:00										0			0		0.00	0.0	
	12:00										0			0		0.00	0.0	
	14:00	82	10	1	84	164	36	226	146	36	0	122	18	0	3.52	0.36	88.7	55081
	16:00	80	10	1.5	82	145	30	228	144	36	0	120	18	0	3.58	0.45	89.6	45539
	18:00	82	10	1	82	145	32	214	146	35	0	121	18	0	3.51	0.36	88.6	52127
	20:00	62	13	1	68	150	35	70	137	35	0	112	18	0	3.6	0.37	90.4	17137
	22:00	49	12	1	54	137	37	101	116	36	0	90	18	0	3.54	0.37	91.5	24666
4/19/2010	0:00	48	12	2	50	135	34	75	114	36	0	86	18	0	3.64	0.53	93.1	13070
	2:00	48	12	1.5	44	130	30	110	111	38	0	85	18	0	3.62	0.46	92.9	22148
	4:00	36	10	1.5	39	134	38	121	103	36	0.04	78	18	0	3.62	0.47	93.5	24156
	6:00	32	8	2	36	121	37	110	100	36	0	76	18	0	3.66	0.55	94.2	18958
	8:00	48	14	1.5	46	138	44	222	113	34	0	87	18	0	3.69	0.46	93.6	45182
	10:00	60	14	1.5	68	148	44	204	124	35	0.02	98	18	0	3.53	0.45	90.7	40681
	12:00	78	12	0.5	78	160	34	234	139	35	0	114	18	0	3.58	0.26	90.0	82498
	14:00	92	14	1	90	170	34	232	149	36	0	126	18	0	3.49	0.36	88.0	56966
	16:00	90	15	1	90	170	36	238	151	34	0.11	125	18	0	3.57	0.36	89.1	59147

	18:00	90	8.5	1.5	86	170	36	246	150	34	0.04	124	18	0	3.48	0.45	88.0	48614
	20:00	64	10	1	68	150	36	235	137	34	0.06	112	18	0	3.64	0.37	90.9	57703
	22:00	58	17	1	64	148	36		122	35	0	93	18	0	3.59	0.37	91.9	0
4/20/2010	0:00										0			0		0.00	0.0	
	2:00	47	9	2	43	132	39	150	111	35	0	87	18	0	3.49	0.54	91.1	25405
	4:00	48	10	2	43	133	39	200	116	33	0.03	88	18	0	3.55	0.54	91.8	34226
	6:00	45	10	2	32	138	39	0	111	34	0.12	84	18	0	3.59	0.54	92.6	0
	8:00	60	10.5	1.5	68	150	42	103	129	34	0	96	18	0	3.48	0.46	90.2	20322
	10:00	72	10.5	1.5	78	160	42	210	144	34	0	108	18	0	3.37	0.45	87.8	40813
	12:00	78	10.5	2.5	78	168	38	268	134	34	0	112	18	0	3.3	0.58	86.6	39804
	14:00	84	10.5	1.5	84	162	38	234	141	32	0	115	18	0	3.31	0.45	86.5	45037
	16:00	86	10	2.25	86	164	38	232	145	32	0	118	18	0	3.3	0.55	86.1	36437
	18:00	80	9.5	2	84	160	39	258	143	32	0	116	18	0	3.32	0.52	86.6	42942
	20:00	64	10	1	70	150	40	225	132	34	0	105	16	0	3.35	0.37	87.8	53328
	22:00	62	10	2.5	68	152	39	240	130	34	0	101	18	0	3.47	0.59	89.7	36328
4/21/2010	0:00	54	10	3.5	62	146	39	242	126	33	0	102	17	0	3.52	0.71	90.2	30798
	2:00	52	10	3	39	137	33	298	113	30	0	89	18	0	3.59	0.66	92.2	41830
	4:00	48	10	3	48	129	41	278	105	36	0.02	82	18	0	3.55	0.66	92.3	38915
	6:00	49	10	0.5	52	136	38	275	112	33	0.03	83	18	0	3.55	0.26	92.2	96156
	8:00	54	11	0.25	58	136	40	204	109	34	0	83	16	0	3.38	0.18	90.0	100010
	10:00	48	9	1	52	136	40	218	116	34	0.02	84	16	0	3.51	0.38	91.6	52991
	12:00	60	10	1	62	142	40	262	125	34	0	92	16	0	3.95	0.37	96.4	67952
	14:00	60	9.5	0.5	64	146	40	258	131	34	0	102	16	0	3.44	0.26	89.2	88259
	16:00	48	10	1	50	134	40	260	124	34	0	93	16	0	3.54	0.38	91.2	63045
	18:00	48	11	0.5	48	132	40	256	106	34	0	82	16	0	3.74	0.26	94.7	92109
	20:00	47	12	0.5	46	110	40	248	104	34	0	78	16	0	3.74	0.26	95.1	89566
	22:00	47	14	1	50	133	40	222	113	34	0	82	16	0	3.74	0.37	94.7	56170
4/22/2010	0:00	47	14	1	50	130	40	206	114	34	0	86	16	0	3.74	0.37	94.4	51935
	2:00	47	14	1	47	130	40	230	110	32	0	85	16	0	3.74	0.37	94.4	58039
	4:00	47	10	1	50	130	40	242	112	31	0	85	16	0	3.74	0.38	94.4	60701
	6:00	46	14	0.5	48	130	40	214	113	32	0	85	16	0	3.74	0.26	94.4	76895
	8:00	46	14	1	45	134	40	276	113	32	0	85	16	0	3.54	0.37	91.9	67686
	10:00	42	14	1.5	45	428	42	260	100	32	0	75	16	0	3.54	0.46	92.7	52097
	12:00	42	14	2.5	38	120	38	298	91	32	0	64	16	0	2.7	0.60	81.8	40618
	14:00	46	16	2	42	128	42	236	98	32	0	68	16	0	2.5	0.53	78.5	34764
	16:00	48	15	2	50	132	42	272	109	32	0	75	16	0	2.4	0.53	76.4	39059
	18:00	42	16	1.5	44	128	42	280	108	32	0	78	16	0	2.4	0.46	76.1	46206
	20:00	39	18	1	40	125	42	244	104	32	0	75	16	0	2.4	0.38	76.4	49684
	22:00	39	13	1	39	121	45	242	101	32	0	71	16	0	2.4	0.38	76.6	49090
4/23/2010	0:00	32	12	1	36	121	49	222	98	32	0	66	16	0	2.4	0.38	77.0	44851
	2:00	32	12	1	32	121	49	210	99	28	0	68	16	0	2.4	0.38	76.9	42337
	4:00	32	12	0.5	36	121	48	190	102	30	0	70	16	0	2.4	0.27	76.7	54521
	6:00	35	12	1	38	130	48	290	103	28	0	71	16	0	2.4	0.38	76.6	58500
	8:00	41	23	1	44	132	47	250	108	27	0	76	17	0	2.4	0.37	76.3	51338
	10:00	49	25	1.5	47	140	47	248	114	27	0	82	17	0	2.4	0.45	75.9	41677
	12:00	55	27	1.5	56	142	46	242	116	27	0.02	87	17	0	2.3	0.45	73.9	39967
	14:00	57	19	2.5	59	143	47	230	116	27	0.03	86	17	0	1.9	0.59	67.3	26346
	16:00	63	12	1.5	64	148	47	230	121	26	0.02	88	17	0	1.7	0.45	63.5	32112
	18:00	64	26	2.5	67	152	47	214	125	26	0	93	16	0	1.4	0.58	57.4	21303
	20:00	50	35	6	50	138	48	220	114	26	0	83	16	0	2.2	0.90	72.6	17797
	22:00	46	22	4	46	130	44	218	118	26	0	81	16	0	2.5	0.75	77.5	22522