

January 14, 2022

2018-3854

Ms. Sara Haile
Project Manager
1800 Washington Boulevard
Baltimore, MD 21230

**RE: Transmittal Letter for Final Phase III Engineering Design Report for
Proposed Chesapeake Terrace Rubble Landfill
Odenton, Maryland
Control Number 1993-WRF-0225**

Dear Ms. Haile:

Provided herein is the Final Phase III Engineering Design Report for the proposed Chesapeake Terrace Rubble Landfill. This submission represents a compilation of the revisions and edits prepared in response to Maryland Department of the Environment (MDE) comment letters issued to National Waste Managers, Inc. (NWM). The chronology of the MDE letters and the NWM responses relevant to this Final Phase III Engineering Design Report are as follows:

- January 11, 2022 - NWM responses to MDE Comment Letter dated January 7, 2022.
- January 7, 2022 - MDE Comment Letter on the November 9, 2021 NWM responses.
- November 9, 2021 – NWM responses to MDE Comment Letter dated October 22, 2021.
- October 22, 2021 - MDE Comment Letter on the Revised Phase III Engineering Design Report submitted by NWM on September 3, 2021.
- September 3, 2021 – NWM Revised Phase III Engineering Design Report prepared in response to July 27, 2021 MDE Comment Letter.
- July 27, 2021 – MDE Comment Letter on the July 2020 Phase III Engineering Design Report submitted by NWM, dated July 2020.

For your convenience, copies of the NWM Response to Comments Letters are provided in Attachment A to this Transmittal Letter. The revisions and edits referenced in the NWM responses are incorporated into the Final Phase III Engineering Design Report, as appropriate.

Ms. Sara Haile
2018-3854
January 14, 2022



In addition to comments on the Phase III Engineering Design Report, the MDE comment letters also included several comments related to the Phase II Report that required minor revisions and edits to pieces of the Phase II Report. Copies of the pages on the Phase II Report affected by those comments are provided as Attachment B to this Transmittal Letter.

We believe that the responses and corresponding attachments satisfy your comments. If you have any further questions or require additional information, contact me directly at 610-840-9122.

Sincerely,

Advanced GeoServices Corp.
(a Montrose Environmental Group Company)

A handwritten signature in black ink, appearing to read "Paul G. Stratman", is written over a light grey circular background.

Paul G Stratman, P.E.
Consultant

PGS:mm

Attachments

cc: Steve Fleischman (National Waste Managers)
Andrew Grenzer (MDE)

Ms. Sara Haile
2018-3854
January 14, 2022



Attachment A

Copies of Response to Comment Letters (w/o Attachments)*

Dated:

January 11, 2022

November 9, 2021

September 9, 2020

*Note: Attachments referenced in the NWM Response to Comment Letters for the Phase III Engineering Design Report are incorporated into this Final version. Revised text and tables related to the Phase II Report (in their final revised version) can be found in Attachment B of this Transmittal Letter.

January 11, 2022

2018-3854

Ms. Sara Haile
Project Manager
1800 Washington Boulevard
Baltimore, MD 21230

**RE: Response to January 7, 2022 WIDE Comments Letter for
Proposed Chesapeake Terrace Rubble Landfill
Odenton, Wlaryland
Control Number 1993-WRF-0225**

Dear Ms. Haile:

Provided below are responses to comments contained in the Maryland Department of the Environment (MDE) comment letter issued to National Waste Managers, Inc. (NWM) on January 7, 2022 (Doc Control No. 1993-WRF-0225) regarding the Phase III Engineering Plans and Specification Report, and the Phase II Addendum for the proposed Chesapeake Terrace Rubble Landfill.

This document has been prepared in a comment and response format, with your comment followed by the NWM response. The numbering system corresponds to the numbering utilized in your comment letter and can be tracked back to the July 27, 2021 MDE Comment letter.

This submission is being made in an electronic format. Once the responses are accepted, NWM will prepare hard copies and a final complete electronic copy of the entire Phase III Application.

1 MDE Comment: Response to Comment #8 states that "NWM may in the future seek MDE approval to utilize the GCL over the 24-inch-thick prepared subbase." Please note that the future request would be a material alteration that would require a public hearing prior to approving the request.

NWM Response: NWM understands that if a request is made to utilize GCL it will require a public hearing. No change is required to the document in response to this comment.

2. MDE Comment: Response to Comment #29, reiterates the possibility to seek in the future MDE's approval to utilize the GCL over the 24-inch prepared subbase. Please see the response in comment 1 above.

NWM Response: NWM understands that if a request is made to utilize GCL it will require a public hearing. No change is required to the document in response to this comment.

3. MDE Comment: Response to Comment #75 states Section VI E of Attachment 16C has been revised to include monthly water level readings in monitoring wells. The Section referenced appears to be incorrect. Section IV E includes the revision. Additionally, Section II.B of Attachment 16C does not reflect the monthly water level reading requirement for landfill wells. Please ensure all components of Section 16 are consistent.

NWM Response: The referenced Section should have been Section IV E of Attachment 16C, not VI E of Attachment 16C. We modified the text under Section II B of Attachment 16 C to eliminate the following language:

Water levels in the Unconfined WBZ monitoring wells southwest of Area B disposal cells 5D and 10 will be measured monthly for at least a year before any landfilling takes place in this area of the Site (filling in cells 1 through 4 and 5E may be performed during the one-year period of water level readings). Quarterly water level measurements will continue through the operating life for disposal cells 5A through 5D and cells 6 through 10. These data will be used to prepare Unconfined WBZ water table contour maps. NWM and the MDE will use these contour maps to evaluate whether landfill activities have impacted the Unconfined WBZ water table along Conway Road and Collins Avenue.

And added the following language to maintain consistency with the balance of Section 16:

Water levels in the Unconfined WBZ monitoring wells will be measured monthly for at least a year before the start of any Site landfilling and throughout the operating life of the landfill. These data will be used to prepare Unconfined WBZ water table contour maps. NWM and the MDE will use these contour maps to evaluate whether landfill activities have impacted the Unconfined WBZ water table along Conway Road and Collins Avenue.

The revised text for Section II B of Attachment 16 C is provided as an Attachment to this response to comments letter.

4. MDE Comment: Comment #102b was not addressed. Detail 9/88 is still referenced on drawing 88. Please revise the drawing.

NWM Response: Drawing 88 has been revised as required.

The revised Drawing is provided as an Attachment to this response to comments letter.

5. MDE Comment: Comment #104, MDE does not accept the July 2020 acetone detection in MW-22 as background for the well. Despite not being able to definitively determine a source for the acetone, the detection coincides with similar detections in a blank, the matrix spike, and duplicate from that round of sampling. Considering that acetone had not been previously detected in MW-22, the weight of evidence supports that the July detection is not valid. Future groundwater analysis and statistics cannot include acetone in MW-22 as background. Please revise the July 2020 data appropriately.

NWM Response: We have revised Section 6.4.1 of the Phase II Report to mention that the July 9, 2020 acetone result for MW-22 is qualified because of blank contamination and should not be utilized for background calculations. The Sample Summary Table in the same section was also revised to eliminate MW-22 acetone result from the summary statistics. The previous conclusions from the statistical analysis for acetone in Section 6.5 of the Phase II Report was "Insufficient Data". The conclusion remains as "Insufficient Data" after elimination of the MW-22 result. We added the following statement to the end of Section 6.5 *"The July 2020 acetone result for MW-22 should not be included in future statistical analysis for background"*.

The revised Phase II text for Sections 6.4.1 and 6.5 are provided as an Attachment to this response to comments letter.

6. MDE Comment: Comment #107, MDE previously requested Section 6.4.1 of the Phase II be revised to correct a suspected misreported pH value of 18.2 SUs. The response to comment identifies replacement page 6-4. The page provided is 6-3 and still includes the pH value of 18.2. Please provide a correctly revised page from the Phase II application.

NWM Response: The referenced pH has been changed to 13.18 (PMW-6 July 2020). The correct page is 6-3.

The revised Phase II text for Sections 6.4.1 and 6.5 are provided as an Attachment to this response to comments letter.

Unnumbered MDE Comment: In addition, please be advised that once the permit is issued, you will not be allowed to commence acceptance of waste until the proposed new wells are installed, and 4 rounds of data are collected from these wells to establish the background data for the site.

NWM Response: NWM understands that it will be required to install and collect 4 rounds of data from the proposed new wells prior to the acceptance of waste. No change is required to the document in response to this comment.

We believe that the responses and corresponding attachments satisfy your comments. If you have any further questions or require additional information, contact me directly at 610-840-9122.

Sincerely,

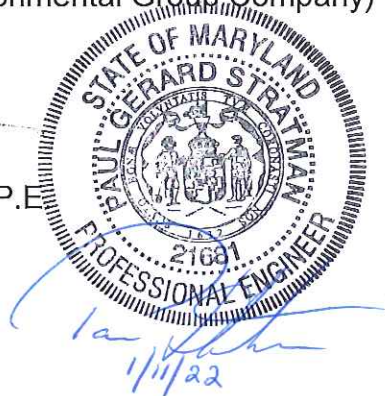
Advanced GeoServices Corp.
(a Montrose Environmental Group Company)


Paul G Stratman, P.E.
Consultant

PGS:mm

Attachments

cc: Steve Fleischman (National Waste Managers)
Andrew Grenzer (MDE)



November 9, 2021

2018-3854

Mr. Andrew Grenzer, Chief of Solid Waste
1800 Washington Boulevard
Baltimore, MD 21230

RE: Response to October 22, 2021 MDE Comments Letter for
Proposed Chesapeake Terrace Rubble Landfill
Odenton, Maryland

Dear Mr. Grenzer:

Provided below are responses to comments contained in the Maryland Department of the Environment (MDE) comment letter issued to National Waste Managers, Inc. (NWM) on October 22, 2021 (Doc Control No. 1993-WRF-0225) regarding the Phase III Engineering Plans and Specification Report, and the Phase II Addendum for the proposed Chesapeake Terrace Rubble Landfill.

This document has been prepared in a comment and response format, with your comment followed by the NWM response. The numbering system corresponds to the numbering utilized in your comment letter and can be tracked back to the July 27, 2021 MDE Comment letter.

This submission is being made in an electronic format. Once the responses are accepted, NWM will prepare hard copies of the complete Phase III Application.

Comment #5

October 22, 2021 MDE Comment - The characterization in the response does not match the language in section 3.4. The response states the Optional entrances will not be constructed, but section 3.4 states they will not be utilized. MDE requires clarification. In addition, the reference in Section 7.1.1 should be to section 3.4 not 3.6.

NWM Response November 9, 2021 – We have added the language “with access for emergency vehicles provided via a 12 feet wide lane from Patuxent Road” to the second sentence in the first paragraph of Section 3.4 to clarify that an emergency vehicle access will be provided. This will not be utilized for waste delivery/receipt and there will not be a scale house/scale, maintenance building signs, paved entrance, or other improvements required for the main entrance. The only constructed improvements would be a gate in the security fence and the 12 feet wide stone road. We have changed the reference in Section 7.1.1 as requested.

Comment #8

October 22, 2021 MDE Comment - October 22, 2021 MDE Comment - MDE accepts the removal of the geosynthetic clay liner (GCL) which makes the need for clarification moot. However, MDE did not recommend removal of the GCL, only that the language of a prepared subbase be differentiated from that of the use of a GCL.

NWM Response November 9, 2021 – NWM misunderstood your meaning during the review of the comments. We are not proposing to change the design back again, but may in the future seek MDE approval to utilize the GCL over the 24 – inch thick prepared subbase, in lieu of imposing the permeability requirement. If NWM chooses to pursue such a change it will be done in accordance with COMAR requirements.

Comment #17

October 22, 2021 MDE Comment - On Attachment 5A, the days of operation in the text are listed at 5.5 days instead of 5 days. The calculation was updated, please revise the text to match the calculation.

NWM Response November 9, 2021 – The requested change has been made.

Comment #27

October 22, 2021 MDE Comment - Section 14 of the report (Specification Section 02229 definition 1.3) references 26.04.07.18E(5). The reference should be 26.04.07.18H. Please revise the reference.

NWM Response November 9, 2021 – The requested change has been made.

Comment #29

October 22, 2021 MDE Comment - MDE did not make a statement that the GCL would not be approved as an alternative liner. MDE's statement was that the use of a GCL requires a site specific demonstration prior to approval. However, MDE agrees the revision to the design specifying a 24-inch thick prepared subbase with permeability equal or less than 1×10^{-5} cm/sec, which makes this comment no longer relevant.

NWM Response November 9, 2021 – NWM misunderstood your meaning during the review of the comments. We are not proposing to change the design back again, but may in the future seek MDE approval to utilize the GCL over the 24 – inch thick prepared subbase, in lieu of imposing the permeability requirement. If NWM chooses to pursue such a change it will be done in accordance with COMAR requirements.

Comment #30

October 22, 2021 MDE Comment - Section 9.1.2 of the hard copy of the report includes detail in the bullet item "Four feet of Select Waste" as "Waste material containing no long pipes, boards, or other materials that could damage the liner or leachate collection layer", however, the electronic copy only includes the bullet item "Four feet of Select Waste" and no detail. Please revise and confirm that the electronic copy and the hard copy are identical.

NWM Response November 9, 2021 – The description of Select Waste in Section 9.1.2 in now contains language related to the length of the material. The electronic copy attached to these response to comments will be used to produce the final hard copies to avoid inconsistencies.

Comment #31

October 22, 2021 MDE Comment - MDE request clarification to Section 9.2 paragraph 2 and recommends the following language be added, "Prior to closure cap installation, a uniform final cover of 2 ft should be in place. The uniform final cover may be inclusive of the 12-inch thick layer of intermediate cover."

NWM Response November 9, 2021 – The requested language has been added to Section 9.2, paragraph 2.

Comment #47

October 22, 2021 MDE Comment - Section 12.6.2.1 should be revised to remove language that, "Some non-operational type activities, such as leachate removal/transport, equipment maintenance, cell construction grading and capping, and general site maintenance and upkeep may be performed on weekends, however, no waste acceptance or disposal activities may occur on Saturdays or Sundays." The ability to operate outside of permitted hours is a facility specific permit condition requiring prior written approval from MDE on a case-by-case basis including the authorization of an extension of operating hours in emergency conditions. MDE will not approve a general exception to operate outside of normal permitted hours.

NWM Response November 9, 2021 – The referenced language has been removed.

Comment #49

October 22, 2021 MDE Comment - The language of Section 12.7.1 should read, "The proposed facility will not accept or dispose of hazardous waste." In the instance the facility receives hazardous waste it must comply with COMAR 26.04.07.18T(3).

NWM Response November 9, 2021 – We have added the statement regarding compliance with COMAR 26.04.07.18T(3) to Section 12.7.1.

Comment #53

September 3, 2021

October 22, 2021 MDE Comment - In Section 12.9.3 remove the language, "Compacted by a bulldozer or compactor".

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NWM Response November 9, 2021 – We have removed the referenced language in Section 12.9.3.

Comment #64

October 22, 2021 MDE Comment - NWM response did not address Comment part C, please address the original Comment #64 Part C and revise the Phase III accordingly.

NWM Response November 9, 2021 – The July 27, 2021 Response only included a part A and a part B. The following is the “as received” comment from MDE with our response:

64. *Section 15 Closure and Post Closure Plan*

- a. *This section lacks the required provision that a uniform layer of earthen material, not less than 2 feet in thickness will be placed over the final lift of waste not later than 90 days after the completion of the final lift, and within 30 days after the final earthen cover has been installed, the area shall be vegetatively stabilized as required by COMAR 26.04.07.21(E)(4). Please see comments 16 and 54.*

Response: The Section 15.1.2.1, and other relevant portions of the text have been revised as requested.

- b. *Deed notation should be included in the plan to indicate that the land has been used as a solid waste disposal site and that the use of the land is restricted.*

Response: We have added text to Section 15.1.1 referencing the deed restriction. NWM will file the deed notice as stated in our response to comment 79.

Comment #66

October 22, 2021 MDE Comment - In Section 15.1.8 the 4th paragraph, “days” has been omitted, please revise.

NWM Response November 9, 2021 – We have added to word “days” to the first sentence in the 4th paragraph of Section 15.1.8.

Comments #69 & #71

October 22, 2021 MDE Comment - Table 15-1 and 15-

NWM Response November 9, 2021 –Table 15-1 has been added to the electronic copy. The electronic copy will be utilized to produce the final hard copy.

Comment #75

October 22, 2021 MDE Comment - MDE agrees with the revisions to Sections 16.4.1 and 16.10, however attachment 16C should be revised to reflect these revisions as well.

NWM Response November 9, 2021 – Attachment 16C Residential Well Water Level Monitoring Program and Mitigation of Impacts Section VI E has been revised to state that monthly water level measurements will be obtained following installation of the new monitoring wells and continuing throughout the operating life of the landfill.

Comment #88 b

October 22, 2021 MDE Comment - Drawing 20 detail 3 still references a 2:1 slope. The slope should be 3:1. Please revise Drawing 20 detail 3.

NWM Response November 9, 2021 – The detail has been revised.

Comment #98

October 22, 2021 MDE Comment - Drawing 74 Sequence of Construction for Cell 1 comment 3 currently depicts 'Intermediate Cover'. It should be revised to depict 'Final Cover'.

NWM Response November 9, 2021 – The sequence of construction text has been revised.

Comment #99

October 22, 2021 MDE Comment - Drawing 85 has two separate 100 year Flood Plains depicted (Before and After 2012). Please clarify the purpose of the two depictions.

NWM Response November 9, 2021 – The July 2020 and September 3 2021 submissions showed the 100 year floodplain as presented before and after the October 16, 2012 FEMA National Flood Insurance Map (Map Number 24003C0136E) revision. Both versions of the line were being presented to share the increase in the 100 year floodplain elevations in the 2012 revision relative to the previous FEMA mapping. Based on this comment, we recognize that providing both lines is confusing and ultimately the 2012 revision is the delineation that dictates this design; therefore, we have removed the pre-2012 mapping from the drawings.

Comments #100 & #101

October 22, 2021 MDE Comment - The condensate drain should be depicted on Drawings 86 & 87, please revise the drawings. The legend references on Drawings 86 & 87 shall be revised to match the details on Drawing 88.

NWM Response November 9, 2021 – We have added the proposed locations for the landfill gas condensate drains to Drawings 86 and 87. We have also corrected the Legends as requested.

Comment #102 b

October 22, 2021 MDE Comment - Drawing 88 Detail 2 references 'Intermediate Cover' instead of 'Final Cover' and Detail 9/88 does not exist, please revise Drawing 88.

NWM Response November 9, 2021 – We have removed the reference to Intermediate Cover and the reference to detail 9/88 on Drawing 88.

Comment #104

October 22, 2021 MDE Comment - MDE requires documentation from the lab that the detection in the equipment blank would not constitute a false positive detection in MW-22. Please provide laboratory documentation or qualify the acetone detection in MW-22 as a possible laboratory contaminant.

NWM Response November 9, 2021 – The acetone appeared in the equipment blank, not the laboratory's method or equipment blank samples, therefore; it would not be qualified or disqualified by the laboratory. The basis for adding a qualifier to the data based on an equipment blank are as follows: 1) detection of a compound in a field sample does not get qualified when the detection in the field sample is greater than 5 times the detection in the equipment blank. 2) A detection in a field sample that is less than 5 times the detection in the equipment blank that sample should be qualified as a "B".

For the samples in question the equipment blank the acetone concentration was 25 ug/L. The July 2020 MW-22 sample returned a detection of acetone of 21 ug/L. We have therefore added a "B" qualifier to the July 2020 acetone result for MW-22 as a possible contaminant.

Comment #107

October 22, 2021 MDE Comment - The Response to Comments notes that the language in Section 6.4.1 was revised to reflect a corrected pH value of 13.2 S.U. for PMW-6, however revised page 6-4 was not included as an attachment to the comments letter. Please provide the revised page 6-4.

NWM Response November 9, 2021 – A copy of Phase II Application page 6-4 is provided with this response.

Additional Comment

October 22, 2021 MDE Comment - During MDE's review of the revised Phase III an additional item was noted relating to Section 15.3. MDE disagrees with the language in the second sentence, "Additional circumstances may require an extension of the post closure care period" and the related two bullet points and the language should be removed. The language should be revised to state, "This period may be extended at the discretion of MDE."

NWM Response November 9, 2021 – The requested change has been made.

Mr. Andrew Grenzer
2018-3854
November 9, 2021
Page 7 of 7



We believe that the responses above, the pages from the Phase II Application, and the revised Phase III Application satisfy your comments. If you have any further questions or require additional information, contact me directly at 610-840-9122.

Sincerely,

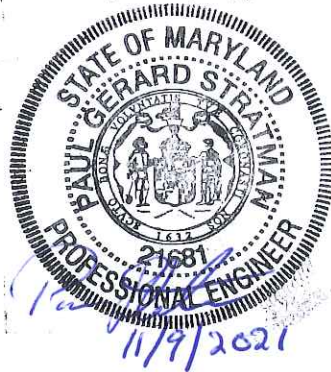
Advanced GeoServices Corp.
(a Montrose Environmental Group Company)

A handwritten signature in blue ink, appearing to read "Paul G. Stratman".

Paul G Stratman, P.E.
Consultant

PGS:mm

Attachments



cc: Steve Fleischman (National Waste Managers)

September 3 [9], 2021

2018-3854

Mr. Andrew Grenzer, Chief of Solid Waste
1800 Washington Boulevard
Baltimore, MD 21230

RE: Response to Comments Letter for
Proposed Chesapeake Terrace Rubble Landfill
Odenton, Maryland

Dear Mr. Grenzer:

Provided below are responses to comments contained in the Maryland Department of the Environment (MDE) comment letter issued to National Waste Managers, Inc. (NWM) on July 27, 2021 (Doc Control No. 1993-WRF-0225) regarding the Phase III Engineering Plans and Specification Report, and the Phase II Addendum for the proposed Chesapeake Terrace Rubble Landfill. This document has been prepared in a comment and response format, with your comment followed by the NWM response.

Accompanying this letter are 10 hard copies of the Revised Phase III Engineering Plans and Specification Report. Each hard copy consists of 3 binders and a roll of full size drawings (90 sheets per set). Reduced copies of the drawings in 11x17 format can also be found in Section 18 of the Application.

To facilitate your review, we can also provide copies of the revised text in redline/strikeout format.

I. Comments Pertaining to the Phase III report:

1. The Phase III Report should include a narrative stating that the landfill is not located within 200 feet of a fault that has had displacement in Holocene time.

Response: We have added a statement to Section 8.3 of the Phase III Report stating that no Holocene faults have been identified on or within 200 feet of the proposed landfill.

2. Section 1, Executive Summary, page 1-1, 2nd paragraph states:

- a. That the leachate will be transported to a local leachate treatment plant for treatment and disposal; and in Section 10.11 Leachate Disposal states "We have received a favorable response from Environmental Recovery Corporation (ERC) of Maryland, located in Baltimore ... and they have provided a preliminary quote for disposal of the leachate, up to 75,000 gallons per day from our site." Please provide a copy of a supporting document from ERC that the facility has sufficient permitted capacity to accept this volume of landfill leachate.

Response: A copy of the quote and acceptance criteria from Environmental Recovery Corporation is provided as an Attachment to Section 10 of the Application.

- b. That the proposed landfill will have 20 Cells/Subcells. Will the landfill design have both cells and subcells? If so, clearly state which of the cells will have subcells and if there will not be any subcells, please clarify the statement to read that the proposed landfill will have 20 Cells. Furthermore, some Tables included in the report and Drawing 27 show 21 Cells, comprising of Cells 1 through 4, 5A through 5F, and Cells 6 through 16, which does not support the statement made in the Executive Summary. Please correct the discrepancy.

Response: The proposed landfill will have 21 cell and no subcells. The statement has been clarified. We have corrected the discrepancies regarding the number of cell in the drawings and text.

3. Section 2.1 states that the landfill will be operated 5.5 days per week, but this is not in conformance with the zoning approval which provides for operating 5 days per week. Landfill permits generally specify the same hours and days of operation that are allowed under the zoning approval for the facility, and provide that the operating hours can be changed with written documentation that the local zoning authority does not object to the proposed change. However, at this time the approval specifies 5 days of operation. Please correct and update the stated operating hours where appropriate, and the calculations for the life of the landfill.

Response: We have changed the assumed number of operating days from 5.5 to 5.0. We have also updated the operating life calculations based on a revised volume.

4. Section 3.2 Existing Site, 3rd paragraph states that "Final disposition of the leachate from the storage tank will be detailed in the Phase III Application." This is the Phase III Application, the sentence should be revised to clarify that the final disposition of the leachate from the storage tank is addressed under Section 10.11, Leachate Disposal, of this Phase III Report.

Response: The change has been made.

5. Section 3.4 Access/Site Entrances, Section 7.11 and elsewhere proposes three possible entrances for the site. The letter from Anne Arundel County dated July 27, 2005, states that the zoning of the rubble landfill was approved in the form of a "special exception" and the condition stipulated allows only the use of Conway Road as the entrance to the landfill. Alternate landfill entrances may be permitted but the landfill must be operated in accordance with the local zoning special exception.

Response: We have revised the text in Section 3.4 to more clearly state that the intended entrance is the East Entrance as stipulated in the County special exception, and that the proposed Optional North or Optional South entrances could only be constructed if the special exception is changed or nullified.

6. Section 3.4.1 Site Entrance Infrastructure and Queue Lanes - Please clearly state that no queuing onto public roads will be allowed.

Response: We have added the requested language to the end of the last

paragraph in Section 3.4.1.

7. Section 3.5 Proposed Rubble Landfill Description states that the landfill will consist of approximately 117 acres dedicated for landfill waste disposal, and that the total site disturbance is approximately 183 acres. Section 1.0 of the Executive Summary states that the proposed landfill is approximately 140 acres, as shown on Figure 1-2 (and is labeled fill boundary). Section 8.5 Soil Volume shows the West Section Cell Area is 83.8 acres, and the East Section Cell Area is 30.8 acres [114.3 acres total]. Section 8.6 Total Disturbance states that the disturbed area is 60.5 [please label unit as acres] in the East Section and 132.7 acres in the West Section [60.5+132.7 = 193.2 acres]. The information on acreage appears to be inconsistent. What is the acreage of the fill area? What is the acreage of disturbance? The acreages of the individual cells should be included in the narrative, and depicted in the drawings.

Response: The acreage of the landfill waste disposal area is 114.4 acres, as measured along the inside top of perimeter berm. The total area of disturbance is 193.2 acres. We have added a table presenting the area within each cell to Section 3.5 and to drawings 6 and 7, and 10 and 11. We have reviewed the documents for inconsistencies and made revisions, where appropriate.

8. Section 3.5.1, Liner System, page 3-6, paragraph 4, states the prepared subbase is commonly known as Geosynthetic Clay Liner (GCL). This statement is misleading. The prepared subbase is made of clay soil, while the GCL is made of geotextile layers containing a layer of bentonite clay. Please correct this statement.

Response: As recommended by MDE we have eliminated the GCL from the approved design. This comment is no longer applicable.

9. Section 3.5.2 Leachate Management System does not need to provide information on where leachate will not be taken, please remove the extraneous information. Please discuss if pre-treatment will be necessary to meet the requirements of the receiving wastewater treatment plant, and if so discuss where the pretreatment will take place, either onsite or with an outside contractor, and what types of pretreatment may be required.

Response: We have eliminated the extraneous language from Section 3.5.2. The need for pre-treatment will be dependent on the nature of the materials placed in the landfill. We have added a statement to Section 5.5.2 saying that pre-treatment is not expected to be required. Acceptance criteria for the proposed ERC treatment facility is provided in the Section 10 Attachment.

10. Section 3.5.3, Cap/Closure System, page 3-8, the first paragraph states as waste grades attain maximum permitted filling elevations, a minimum 12-inch thick intermediate cover will be placed and shall be seeded. Please note that areas that have reached final grade must be covered with 2 feet of final cover and vegetated. Please see the distinctions between intermediate and final soil cover required by COMAR 26.04.07.18G and H, which are accessible on line at

www.dsd.state.md.us/comar/comarhtml/26/26.04.07.18.htm.

Response: We have revised Section 3.5.3 to clearly indicate that the waste will be covered by a 24-inch (min) thick Final Cover Layer and that the Final Cover Layer is overlain by the Closure Cap.

11. Section 3.5.3, Cap/Closure System, page 3-9, the first paragraph proposes the use of 20 mil synthetic material for capping, while Drawing 34 shows a 40 mil textured LLDPE liner. Please revise this section to be consistent with the Drawing.

Response: The text has been revised to eliminate the minimum 20 mil geomembrane referenced in the regulations, and clearly state that the geomembrane will be a 40 mil textured LLDPE.

12. Section 3.5.4, Landfill Gas Collection & Control, page 3-9, paragraph one states “Depending upon the concentration of methane in the landfill gas, a passive landfill gas management system may be used”. Section 11 of the report that discusses the landfill gas management plan does not include the details for a passive landfill gas system.

Response: At this time expectations and intentions are to install and operate an active landfill gas system. If gas generation rates do not support operation of an active system, NWM will seek an appropriate permit modification to convert to a passive system.

13. Section 3.6, Solid Waste Management Plan, states that the proposed rubble landfill was included in the Anne Arundel County Solid Waste Management Plan in April 2001. Please revise it to in the 10-Yr Solid Waste Management Plan 2013-2023 as a proposed facility.

Response: We have made the change, as requested.

14. Figure 4-1 Landfill Bottom Grades Compared with Highest Observed Groundwater Levels:

- a. Figure 4-1 is included in Section 3, Project Description but should be re-organized and included in Section 4, Groundwater Separation.

Response: The Figure is Section 4 in the revised Phase III Permit Application.

- b. Figure 4-1 shows Cell 5E having a groundwater separation between the bottom of the sump and the groundwater table of 3.8 ft. The sump elevation at this location is shown to be 118 ft, and the groundwater elevation is shown to be greater than 115 ft. Cell 5C has a groundwater elevation of 115 ft at the sump and a bottom of sump elevation of 118 ft but is labeled 5.0 ft separation. Please clarify and review all groundwater separations. The groundwater separation is required to be a minimum of 3' and the cell floor must be raised to meet that separation. Also, note that this separation is required from the highest anticipated occurrence of groundwater, not just the highest observed, so if circumstances occur that might cause a higher elevation of groundwater, then the proposed cell floor elevations must be increased accordingly.

Response: We have modified Drawings 6 and 7, and 10 and 11 to include a tables specifying critical invert elevations at each of the sumps. The lowest elevation at each sump was set to provide a minimum vertical separation of 3 ft. between the bottom of the 24-inch thick prepared subbase and the highest observed/predicted groundwater elevation. We have re-created Figure 4-1 using the modified 3D bottom of Subbase

surface and 3D highest observed/predicted groundwater surface. Also, as presented in the Phase II Application and discussed with MDE during preparation of the Phase II Application, the highest observed/predicted groundwater elevations (developed using the highest observed groundwater elevation at each individual well at any time) was adopted as the highest predicted groundwater elevations for design purposes.

- c. Figure 4-1 shows that the proposed Cells 1, 2, 3, 6, 5E & 10 have two numbers for the elevation of the sump in these cells. Be advised, the sump is the lowest portion within the cell designed to facilitate leachate movement and collection at the sump. Please correct this discrepancy.

Response: Figure 4-1 is an isopach map presenting the distance between the top of the groundwater surface (Highest Observed/Predicted) and the bottom of the cell. Figure 4-1 does not show elevations, as a result, the smallest amount of separation, does not always occur at the sump. The previous version of Figure 4-1 showed two numbers in Cells 1, 2, 3, 6 and 10 because the smallest groundwater separation distance beneath these cells did not occur at the sump. So one of the numbers represented the separation at the sump and the second represented the location with the smallest separation within the cell. This is a function of the configuration of the potentiometric surface relative to the bottom of the cell subbase and does not represent a second or alternate low point in the cell. Cell 5E had 2 numbers because the one represented the sump in cell 5F which was not depicted on the drawing.

The revised version of Figure 4-1, developed using the new Bottom of Subbase Grading Plan (Drawings 6 and 7), has the smallest groundwater separation distance at the sumps in all cells except Cells 1 and 2.

15. Section 4.0, Groundwater Separation, paragraph two, states that the proposed cell floor grading maintains a minimum of 3 feet buffer at all locations as required under Code of Maryland Regulation, COMAR 26.04.07.16(C)(6A). This statement is incorrect, as Cells 1, 2, 3, 10 and 11 did not meet the minimum vertical buffer distance of 3 feet. As noted in Comment 14, Figure 4-1 and Drawings 10 and 11 depict an insufficient vertical buffer in Cells 1, 2, and 11 between the highest observed/anticipated unconfined groundwater elevations compared with the proposed cell floor elevation. These three cell floors must be designed to be above the unconfined groundwater. In addition, Cells 3 and 10 have 0.79 and 2.2 feet vertical buffer distances. These do not satisfy the requirement of COMAR 26.04.07.16(C)(6A). Please correct this discrepancy in the narrative and all inadequate plan sheets. The cell floor design must comply with the buffer requirement at all locations.

Response: The landfill bottoms have been revised and regraded as appropriate to ensure the 3.0 ft. of separation from the bottom of the subbase. In all the cells, except cells 1 and 2, this now occurs at the cells. As stated above, the smallest separation distance (but still equal to or greater than 3.0 ft.) in cells 1 and 2 occurs at a location away from the sumps as a result of sharp changes in the gradient of the potentiometric surface below these cells.

16. Section 5 Landfill Air Space Estimate: The air space estimation does not include the 2-feet of prepared subbase, the 12 inches barrier layer shown on Drawing 14 Detail 1, and the 2-feet of soil placed over the final lift of waste. Please note that the cap thickness is four feet minimum; for final closure COMAR 26.04.07.19E(5) and COMAR 26.04.07.21 require the components listed below:

- 2 feet of final cover placed over the waste
- A geomembrane layer or 1 foot of clay with a permeability $\leq 1 \times 10^{-5}$
- A geocomposite drainage layer or minimum 6 inches thick drainage layer with a permeability $\geq 1 \times 10^{-3}$.
- 2 feet of final earthen cover (including 6 inches of topsoil).

Please amend the estimate and any appropriate plan sheets to reflect an acceptable cap design.

Response: Section 5 has been revised based on the revised top of the Leachate Collection Layer and Top of Waste grading plans.

17. Section 5.1 Landfill Air Space Estimate, page 5-1, states that the final closure cap thickness is 3 feet. Attachment 5A, Landfill Airspace Estimate, sheet 1 of 2, does not depict the 2- feet prepared subbase layer for the cell liner system and the 2- feet of earthen cover over the waste for final cover system. Please see comment 16 above.

Response: The proposed landfill design Attachment 5A, has been revised based on a 2 ft. thick Final Cover and 2 ft. thick Closure Cap.

18. Section 5, Landfill Design Life, please check the value of 44.0 tons/cubic yard as it appears this should be 44 lbs/cubic foot, as used in the calculations in Attachment 5B. Also, Attachment 5B Cell Life Summary was not included in the hard copy of the Report. Please ensure that when the revised Phase III is resubmitted, both the digital and print copies of the reports and plans are identical.

Response: The value has been corrected in the text to be 44 lbs/cf. The revised version of the report includes an updated Attachment 5B.

19. Section 6.2.1 Historical Flood Plain Analysis, states the footprint of the landfill is located approximately 5 feet above the influence of the 100-year floodplain. Please explain how the landfill does not restrict the flow of the 100-year flood, or reduce temporary water storage capacity of the floodplain.

Response: The landfill does not encroach into the floodplain. We have reworded the statement in Section 6.2.1 to clarify the meaning of our statement.

20. Section 6.4, Residential Well Monitoring, references Section 16 Appendix C instead of Attachment 16C. Revise accordingly.

Response: The required change has been made.

21. Section 7, page 7-1, revise the "final intermediate cover" to "final cover". Please see comment 16.

Response: This change has been made here and throughout the drawings and

text.

22. Section 7.2.4 Intermediate Construction Stage Plan Depiction, No. 2 references Drawing 39 instead of Drawing 42.

Response: This change has been made.

23. Section 7.5.2 Sequence of Cell Construction and Waste Placement, No. 2 states that during the life of cell construction and waste placement, sediment basins will be constructed and dewatered per details on Drawing 62. Please note whenever the accumulated sediment exceeds one-half of the pond's storage capacity design, a schedule must be developed for removal of the accumulated sediment to restore the pond to its design storage capacity. Please include language in the operation and maintenance plan outlining this requirement.

Response: Operations Plan Section 12.11.4 has been modified to include a statement regarding sediment removal.

24. Section 8.4, Soils Description is missing a discussion of the Final Cover Soil. Final soil cover is missing throughout the report. Please see comment 16.

Response: We have added a new subsection to Section 8.4 for Final Cover Layer.

25. Section 8.4.2 Prepared Cell Subbase Soil, lacks a detailed discussion of the subbase preparation. Please include here what is discussed in Section 13-Construction Quality Assurance Plan.

Response: We have added language to Section 8.4.2 regarding construction of the prepared soil subbase.

26. Section 8.4.4, Protective Layer, page 8-5, sentence four, states "The regulations also provide the option to place clean fill instead of select waste as the protective layer." Please note COMAR 26.04.07.18(B) does not provide the option to use clean fill in-lieu of the minimum of 4 feet of select waste. Please correct this discrepancy in the Report.

Response: We have eliminated the statement regarding use of clean fill for the 48-inch thick protective layer above the Leachate Collection System.

27. Section 8.4.6, Intermediate Cover Soil, states that Specification Section 02224 distinguishes between the general layers of intermediate cover and the "final layer" of intermediate cover. Please note that the intermediate cover should not be confused with the 2-feet of final cover placed over the waste, to minimize confusion please change the "final layer of intermediate cover" to "final cover" in the report and in the drawings. Please see comment 16.

Response: We have created a separate Specification Section (02229) for Final Cover and removed references to "final layer or intermediate cover" from Section 02224.

28. Section 8.4.7.1 Closure Cap Protective Cover states that final cover soil is miscellaneous soil material. Please clarify what is meant by miscellaneous. Please see comment 16.

Response: The referenced section has been revised to specify that the

protective cover soil layer component of the Closure Cap shall be Structural Fill. The Structural Fill Specification (Section 02223) has been revised to specify that the maximum particle size of Structural Fill utilized as the protective cover soil layer is <2-inches.

29. Section 9.1.2:

- a. COMAR 26.04.07.16C(3) requires the design of the liner to “Include a liner installed over a prepared subbase, free of objects which could damage the liner material, with a minimum thickness of 2 feet and having a permeability less than or equal to 1×10^{-5} centimeters/second” The proposed alternative liner must include 1 foot of prepared subbase in addition to the geosynthetic clay liner.

Response: Based on MDEs statement that the GCL would not be approved as an alternative liner during the July 20, 2021 review of the comments, we have revised the designed to specify a 24-inch thick prepared subbase with permeability equal to or less than 1×10^{-5} cm/sec. This comment is no longer relevant.

- b. You have proposed to use a geosynthetic clay liner (GCL) instead of the required prepared subbase clay soil to be placed under 60 mil high density geomembrane (HDPE) synthetic liner. MDE has approved the use of GCL on a case by case basis based on site specific demonstration. Also, it is important to note that the permeability of the GCL is not the only factor of consideration for demonstrating GCL’s equivalency with the required subbase clay soil. The subbase soil must be constructed of material capable of supporting the liner and be resistant to pressure gradient above and below the liner in order to prevent failure of the liner due to settlement, compression, puncturing, tearing, or cutting during liner placement and landfill operations. MDE has observed at other sites GCL panel separation under the HDPE liner due to inadequate support of the liner composite by the subsurface materials. Please revise the liner system design in accordance with COMAR 26.04.07.16C(3).

Response: Based on MDEs statement that the GCL would not be approved as an alternative liner during the July 20, 2021 review of the comments, we have revised the designed to specify a 24-inch thick prepared subbase with permeability equal to or less than 1×10^{-5} cm/sec. This comment is no longer relevant.

30. Page 9-1 states that the landfill will include 4 ft of protective cover. Please clarify that the 4 ft. of protective cover is select waste containing no long pipes, boards, or other materials that could damage the liner and leachate collection system. It is recommended to use the “select waste” throughout the report to minimize confusion.

Response: We have revised the submission to refer to the 48-inch thick layer as Select Waste and we added additional detail as requested to the description of Select Waste in Section 9.1.2.

31. Section 9.2 Cap and Closure System, COMAR 26.04.07.18H requires a uniform compacted layer of earthen material not less than 2 feet in depth shall be placed over the final lift not later than 90 days following completion of that lift. The plans and design show the final waste lift only covered with a 1’ intermediate cover. Please correct

throughout the report and drawings. Please see comment 16.

Response: The design has been revised to specify a 24-inch thick Final Cover over the top of waste within 90 days.

32. Section 9.2 Cap and Closure System, it is recommended that the proposed 40 mil LLDPE liner clearly state that it is textured on both the top and bottom of the geomembrane.

Response: The LLDPE description under Section 9.2 specifically calls out that the LLDPE shall be textured on both sides.

33. Section 9, Geotechnical Considerations, the table of contents and attachments have discrepancies, there are two attachments named 9E; Attachment 9F in the electronic copy does not match with the attachment in the print copy; the table of contents shows that Attachments 9E, 9F, and 9K are "in progress"; and Attachment 9G listed in the table of contents is not included in either the hard or electronic copy. Please revise the narrative and plans accordingly, and ensure that when resubmitted both the digital and print copies are identical.

Response: Section 9 Table of contents and Attachments have been reviewed and revised for consistency. The "in-progress" statement should have been removed prior to the previous submission. We will provide a link to our file server for the updated/corrected digital copy upon request.

34. Section 10, Leachate Management, Tables 4 and 5, include Cell 5F. However, Cell 5F is not depicted in all of the drawings included in the report. To minimize confusion, the narrative and the drawings must show all the proposed cells listed on Tables 4 and 5 in the report. Please revise the narrative and plans accordingly, and ensure that when resubmitted both the digital and print copies are identical.

Response: These revisions have been made.

35. Section 10.3 Leachate Collection System COMAR Regulations, page 10-2, revise the typo "COMAR 26.04.07.160C(6)(a)" to "COMAR 26.04.07.16C(6)(a)".

Response: The requested revision has been made.

36. Section 10.4.1 Pump Levels Sensors and Alarm Systems states that level sensor pump-off position will be 9 inches above the sump floor, pump-on position will be 6 inches above top of sump, and pump high level alarm will be 1 foot above top of sump. Please include a detail on Drawing 19 that depicts these pump control positions.

Response: The requested revision has been made. We have set the on level at 12 inches above the bottom of the sump and the off level at 6 inches.

37. Section 10.9 Develop Leachate Generation Rates, Table 2 Closure Cap (Final Cover) system configuration lacks the 2 feet of final cover placed over the waste. Please see comment 16.

Response: Table 2 has been revised to state that the Final Cover Layer is 24-inches thick.

38. Table 11-1, Gas Extraction Well, the table has waste thickness errors. Revise accordingly.

Response: Table 11-1 has been revised.

39. Section 11.3.3.4: Please also record the highest methane reading in addition to the steady state reading.

Response: We have added a statement requiring that the highest methane level be recorded.

40. Section 11.3.5 states "If the methane levels in the monitoring probes remain in compliance for a period of two (2) years, or eight (8) quarters, the frequency of monitoring can be scaled-back to annually with notification to MDE of the change." This language must be removed. Quarterly gas monitoring will be required throughout the life of the landfill and will continue, at minimum, until the 5-year post-closure period has ended. Sampling frequency may only be reduced after the permittee has petitioned MDE with supporting data and that petition for a reduction in frequency has been granted.

Response: The text has been modified as requested.

41. Section 11.4.2 Notification requirements. The gas management plan should specify that MDE will be notified in writing within 24 hours of a methane compliance level exceedance. Additionally, a remedial plan will be required within 60 days, not 90 days.

Response: The text has been modified as requested.

42. Section 11.8.2, Piping and Condensate Management, states that condensate sumps or leachate collection system are designed to collect and dispose of the condensate. Section 11.8.3, states that a moisture separator is an expansion chamber located just upstream of the blowers. Please show these features in a drawing.

Response: We have modified the design to eliminate the drain from low points in the header on the landfill to the leachate collection system riser pipes, because the interconnection could result in loss of negative pressure in the headers. The design has been revised to include a standard condensate sump configuration that allows the condensate to enter the sump through a J connection and infiltrate back into the waste. A detail of the sump has been added to Drawing 88. We have added a schematic for the expansion chamber (a.k.a. "knock-out tank"), blower and filter system at the Flare Paddock to Drawing 59. Specific details regarding the size of the knock-out tank will be prepared during final design of the skid mounted flare system. Typically the Knock-out chamber will be 2 to 3 feet in diameter and 4 to 8 feet high.

43. Section 12, a typo "landfill managermanager" occurs several times.

Response: This edit has been made.

44. Section 12, Operations and Maintenance Plan, the plan must describe that the disposal site shall be graded and drained to minimize runoff onto the fill area, prevent erosion and ponding within the fill areas, and drain water from the surface of the rubble landfill, as required by COMAR 26.04.07.18I. The cell sequencing plan shall describe in detail how operations will minimize runoff onto the fill area, prevent erosion and ponding. This should include a sequence for staged land clearing.

Response: We have provided a “typical Stormwater Separation Berm” on Drawing 84. This shows the creation of a berm on the perimeter of active cells that abut an undeveloped cell area that is higher in elevation and could shed water onto the cell. The sequence plans (Drawings 64 to 81) show the grading for the “clean water” drainage channels at various stages of development and filling. We have also added language to Section 12 describing that surface of the waste will be graded and drained to shed water off the surface of the waste and into the leachate collection system. The limits of clearing will be defined by the area of grading at each stage of development.

45. Section 12.1 General, page 12-1, last paragraph states that in the event of a transfer of ownership, all responsibilities of the Operator shall remain. Please note that a permit is valid only for the permittee named and may not be transferred to another entity. The new entity must obtain a new Refuse Disposal Permit from MDE. The permittee remains responsible for fulfilling the requirements of the permit until such time as a new permit is issued.

Response: This statement has been removed.

46. Section 12.3 Service Information, page 12-3, states “The landfill will be operated until the design capacity has been reached” should be amended to read, “The landfill will be operated until the design capacity has been reached or the life allowed under the special exception has expired.” All other references in the document to the life of the landfill should reference the life allowed under the approved special exception.

Response: We have modified the text to clearly state that the operating life for receiving waste is 12 years.

47. Section 12.6.2.1 Hours of Operation includes information about Millersville Landfill. This is not relevant to this landfill. Also, this section states that “There may be some operational activities that are addressed for half a day for cleanup and maintenance efforts.” All landfill operations must occur during the approved hours of operation.

Response: The reference to Millersville has been corrected. We have added language indicating that no waste receipt will be performed on weekends. It is our understanding that the Special Exception limitations on operations is limited to receipt and placement of waste. Leachate management and repair required to maintain compliance may need to be performed on weekends, depending on nature and urgency of the item.

48. Section 12.6.2.3 Optional North and South Entrances discusses daily waste acceptance rates, vehicle arrival and processing times. Additional information should be provided regarding the vehicular traffic needed for recycling of materials salvaged in accordance with Section 12.7.6. Section 12.6.2.3 refers to Section 3.6.3 and 3.6.4 of the Phase III Report, but these sections do not exist in the report. Please include the missing information.

Response: The reference has been corrected. We have added discussions regarding the traffic associated with recycling and salvage, and included estimates for leachate transportation.

49. Section 12.7.1 Types of Waste states “No hazardous materials will be accepted or disposed within this landfill unless approved by the MDE.” COMAR 26.07.07.03B(5) specifically prohibits solid waste facilities from accepting controlled hazardous waste. Please change this sentence to be clear that hazardous materials will not be accepted or disposed of at the landfill. Also, the lists of solid waste to be accepted and not to be accepted should be described in this section instead of Section 12.3 Service Information.

Response: The requested change has been made.

50. Section 12.7.7, Filling Operation, states that the select waste shall contain no long pipes, boards, or other objects judged by the operator to be detrimental to the underlying liner system or leachate collection system. Please note that the permittee must notify MDE prior to the placement of the select waste. Also, Filling Operations discusses stripping periodic and intermediate soil cover. Stripped cover material is considered contaminated and cannot be used again for cover materials. Intermediate cover should not be removed after placement. Please update soil balance calculations.

Response: We have added a statement that the MDE must be notified ahead of time for placement of Select Waste. We have added language stating that cover soils cannot be reused.

51. Section 12.7.8, Alternate Periodic Cover Material (APCM), states APCM may be in use at site, with prior approval of MDE. For this project the APCM considered are fabric type alternative cover, incinerator ash and flyash/bottom ash. You also cited the use of fly ash approved by the USEPA, PADEP, and CAL/EPA. Please be advised that the proposed landfill is a rubble landfill, and COMAR 26.04.07.13B(2) and COMAR 26.04.07.13B(3) prohibit the use of industrial waste or byproducts, such as incinerator ash or coal combustion byproducts including coal fly ash. Also, incinerator ash and flyash are not permitted as cover or fill in Anne Arundel County.

Response: The text has been revised to limit the APCM to synthetic covers.

52. Section 12.7.9 Handling of Special Waste should include a statement that if hazardous waste is identified in waste accepted at the facility, the permittee shall immediately (within 2 hours) report to MDE all incidents of discovery of any unacceptable hazardous waste materials in a load of waste. The landfill shall then submit to the Department a written report within 5 working days following the discovery. When the source of waste is known, the written report shall include the source of the waste, the transporter of the waste, the circumstances of discovery, a description of efforts to secure and control the waste and any release of pollutants from the waste, the current location and if known, the final disposition of the waste. If the source of waste is unknown, the written report shall include the circumstances of discovery, a description of efforts to secure and control the waste and any release of pollutants from the waste, and the current location and final disposition of the waste. If the source of unacceptable hazardous waste is known, the permittee shall reject the waste material and advise the generator or hauler of the reason of rejection. If the source of unacceptable hazardous waste is unknown, the permittee shall separate and handle the waste material in accordance with the applicable requirements of COMAR 26.13.02 “Disposal of Controlled Hazardous Substances”.

Response: The text has been revised to include the requested text/requirements for responding to incidents of hazardous waste being delivered

to the site.

53. Section 12.9.3 Periodic Cover should include a statement that the cover will be graded to minimize infiltration and erosion, and prevent standing water at the working face.

Response: The requested language has been added.

54. Section 12.9.5 Final Cover includes description of a 12-inch intermediate layer and an additional 24 inches of intermediate cover. COMAR 26.04.07.18H "Final Cover Material" requires a uniform compacted layer of earthen material not less than 2 feet in depth shall be placed over the final lift not later than 90 days following completion of that lift. COMAR 26.04.07.21G provides that rubble landfill closure caps must have a minimum 2 feet of final earthen cover placed over the drainage layer of the capping system. Intermediate cover is not part of the final cover. This section is confusing as it seems to be discussing both the final cover material and the capping system, but also includes intermediate cover. Please revise for clarity.

Response: This section and other portions of the text and design Drawings have been revised to provide greater clarity regarding the Final Cover, Intermediate Cover and Closure Cap.

55. Section 12.11.7, Areas Subject to Spills Inspection Plan, page 12-21, states the fuel storage area will be surrounded by an earthen containment of adequate capacity to hold the entire contents of the tanks should a spill occur. The Phase III Report should include a stormwater pollution prevention plan.

Response: We have added language to the section stating that a SWPPP is being prepared and will be submitted to MDE under separate cover. The SWPPP is being prepared in accordance with the MDE standard Template required as part of the NOI for stormwater discharge.

56. Section 12.12.1.2.1 Leachate Pumps

- a. The third paragraph discusses the sensor pump-off position will be set at 9-inches foot above the sump floor. Please clarify where the sensor position will be located. You are required to maintain less than one foot of leachate on the liner. Please see comment 36 above.

Response: We have revise the settings for the pumps to turn on at 12 inches above the bottom of the sump, turn off at 6 inches, and to trigger a high level alarm at 16 inches.

- b. The last paragraph and Section 10.4.1 Pump Level Sensors and Alarm systems state that during landfill non-operation hours, the landfill manager will receive a high-level alarm signal, via telemetry from the Pump control Panel. Please provide, by title, a minimum of two people who will receive leachate alarm notification. Also, Section 10.4.1 states that a master control panel will be located in the leachate storage facility controls building. Please depict the building on the Drawing.

Response: The master control buildings are located adjacent to the leachate storage tanks and are called out on Drawing 10. We have added the Landfill Superintendent as the second contact.

- c. Please provide information on the frequency of emptying of the storage tank.

Response: We have added language regarding the emptying of the storage tanks.

57. In Section 12.12.1.2.1.2, Force Main Access and Maintenance, the 2nd paragraph states that forcemain cleanouts are provided at minimum 400 feet intervals as noted on Drawings but Drawing 22 shows 500 feet maximum spacing. Please revise the plan and/or text to eliminate the discrepancy.

Response: The spacing on the drawing has been changed to 400 feet.

58. Section 12 Attachment 12C, Safety Precautions for Equipment Operators, 3.S, states "do not mix heavy traffic with light trucks". The operation plan must describe the procedure if separate unloading areas for pickups and other light vehicles will be provided.

Response: We have added language to Section 12 regarding the intent of keeping light trucks and heavy truck away from each other. As described this may include sending one type of truck to one active cell and the other to a second active cell, or directing one type of truck to one end of the working face and the other type of truck to the opposite end.

59. Section 12 Attachment 12D paragraph states, "This written plan has been developed to assist the Chesapeake Terrace Rubble Landfill in the management of emergencies that might reasonably be expected to occur at the landfill site located at (insert landfill street address here)." Revise to include the address.

Response: A street address will not be known until the final entrance location is determined. The plan will be modified with the address at that time.

60. Section 12, the Operation Plan must include that when there is power outage a standby generator and portable pumps to pump the leachate from the sumps to the leachate storage tanks is available on site, also pumps in various capacity, lighting for emergency work.

Response: We have added language requiring that standby power be provided for the scale house, leachate collection systems and the leachate storage tank areas. The statement also requires that it be included as a requirement of the County electrical building permit. We also included language that the site must maintain at least one mobile, generator powered light standard.

61. Section 13, lacks a statement including the $\leq 15\%$ carbonate content acceptance limit for the leachate sump aggregate. The testing frequency listed in Table 1 is 1 per source but it should include the frequency per stockpile.

The statement has been added and included in the Table.

62. Section 13.1.3 Project Design, is missing the final cover layer under the landfill cap. Please see comments 16 and 54.

Response: We have added text regarding the Final Cover layer.

63. Section 14, states "intermediate cover is material used as the final grading layer on the waste prior to the installation of the geosynthetic closure capping system and Technical

Specification 02224, states that the final grading layer on the waste shall consist of at least 12-inches of soil. Please see comment 16 and 54.

Response: The text and drawings have been revised to clarify the differences between the various types of cover layers/materials.

64. Section 15 Closure and Post Closure Plan

- a. This section lacks the required provision that a uniform layer of earthen material, not less than 2 feet in thickness will be placed over the final lift of waste not later than 90 days after the completion of the final lift, and within 30 days after the final earthen cover has been installed, the area shall be vegetatively stabilized as required by COMAR 26.04.07.21(E)(4). Please see comments 16 and 54.

Response: The Section 15.1.2.1, and other relevant portions of the text have been revised as requested.

- b. Deed notation should be included in the plan to indicate that the land has been used as a solid waste disposal site and that the use of the land is restricted.

Response: We have added text to Section 15.1.1 referencing the deed restriction. NWM will file the deed notice as stated in our response to comment 79.

65. Section 15.1.4 Leachate Collection System, states the leachate will be collected into the leachate collection sumps and pumped to the on-site leachate storage tanks and subsequently transported by tanker truck to a water treatment facility in the area. Please include the name of the leachate treatment plant.

Response: We have added information regarding the off-site leachate treatment/disposal facility to Section 15.1.4.

66. Section 15.1.8 lacks a sentence stating that certified as-built plans for the completion of the closure cap will be submitted to MDE no later than 90 days after completion of the cap.

Response: We have added language to Section 15.1.8 regarding certified as-built plans within 90 days after cap completion.

67. Section 15.1.2.5.1 Erosion and Sedimentation Control Plan, states that the revised design will be submitted to AA Soil Conservation District for review and approval. The approved erosion and sediment control plan and stormwater management plan must be submitted to MDE prior to the approval of the Phase III plan as required by COMAR 26.04.07.16A(11).

Response: The revised Phase III Application is being submitted to AASCD for review and approval concurrently with this submission to MDE. We will forward proof of the AASCD approval, as soon as it is received.

68. Section 15.2.3.1, states that once leachate is no longer detected in the cell sumps for a minimum period of 6 months, the pumps may be removed and no further maintenance/inspection is required for the leachate collection system. This practice is unacceptable. Please revise this section to address that the leachate collection system stays operational throughout the post-closure period.

Response: The requested change has been made.

69. Section 15.2.4, Inspection Plan, references Table 1 instead of Table 15. Also, include a language in Table 15-1 stating the closure cap will be inspected as soon as possible after major storm events.

Response: The reference has been revised to state Table 15-1. We added a new line item to Table 15-1 regarding cap inspections monthly and as soon as possible after major storm events.

70. Section 15.2.5.1 Water Quality Monitoring, states that the sampling of the surface water sedimentation basins are described in the facilities NPDES Permit. Please include a copy of this permit in the Report.

Response: We submitted a request to MDE for a copy of the NPDES and contacted a former consultant involved in the project regarding a facilities NPDES Permit. Based on those efforts, we have concluded that the reference to an existing NPDES Permit for the Site is erroneous and therefore have removed the reference from the text.

71. Section 15 Table 15-2, Landfill Closure Cap Inspection includes a checklist which sets the standard for the identification of an area of poor vegetation as being an area of >3000 square feet area with <30% vegetation. This is unacceptable. Revise the checklist to include a language stating any areas of poor vegetative cover will be considered a reportable issue, and require repair.

Response: We have revised the referenced checklist items to remove the square footage and replaced it with "areas of any size".

72. Section 16.3.1 states, "[T]he permanent groundwater monitoring network will consist of one (1) exiting* and fifteen (15) new wells around the perimeter...". Please revise the typo from "exiting" to existing".

Response: The requested change has been made.

73. Section 16.4.3 Groundwater Sampling and Analysis, states that "Groundwater from the permanent groundwater monitoring network wells will be sampled a minimum of 4 consecutive events prior to the start of waste placement within their respective areas (e.g. Area A wells will be sampled a minimum of 4 time prior to the start of waste placement in Area A disposal cells, and Area B wells will be sampled a minimum of 4 times prior to the start of waste placement in in Area B disposal cells). The results from the 4 initial sampling events (plus any previous results from PMW-6) will be used to establish a statistical database for groundwater quality. Each sampling event shall be no less than 6 weeks after the end of the previous event and no greater than 20 weeks after the end of the previous event." The 4 consecutive sampling events collected prior to waste placement should occur through all seasons throughout the year to help interpret any seasonal variability. The permittee may elect to collect samples at minimum every six weeks; however, please be advised that frequency of sampling may not capture yearly seasonality, and so MDE may require more than 4 samples. Also, this requirement must be met at all wells.

Response: The Section 16.4.3 text has been revised to state "The first sampling event will begin approximately 2 to 3 weeks after the completion of well installation and development. Subsequent sampling events shall be performed

once each subsequent calendar quarter.” NWM will install and begin sampling all wells in the proposed groundwater monitoring network following MDE permit issuance. In addition, monthly depth water reading will be collected from all new and all available existing wells.

74. Section 16.8 The permit will require MDE be notified of a Maximum Contaminant Level exceedance in writing within 24 hours of receipt of the laboratory report detecting the occurrence. Please note this requirement in this section.

Response: The requested change has been made.

75. Section 16.10 and Attachment 16C regarding the evaluation of residential well water levels states: “Quarterly water level measurements at wells PMWs-120, 121, 122 and 123 will continue through the operating life of disposal cells 5A through 5D and cells 6 through 10.” Monthly water level readings for all site wells and piezometers will be required upon issuance of a refuse disposal permit regardless of which cells are in operation. Section 16.10 and Attachment 16C must be revised to reflect that requirement.

Response: Section 16.10 and 16.4.1 to state the requirement for monthly water level measurements throughout the construction and operating life of the facility.

76. Section 16, Table 1 Note includes the following, “The screened interval for the typical Unconfined WBZ wells will begin at approximately one foot above the highest observed/predicted groundwater level as presented on Table 1 (above) or a minimum of 7 feet below the ground surface (whichever is greater).” When the interval from one foot above the highest observed/predicted groundwater level to the top of the MCU is less than 10 feet but greater than 8 feet, utilize the full 10 ft screen length and set the bottom of the screen into the MCU. When the interval is less than 8 feet, set the bottom of the screen 2 feet into the MCU and set the top of the screen at greater than 1 foot above the highest observed/predicted groundwater level, as necessary to maintain the 10 foot screen length. Where the 7 feet of separation between the top of the screen and ground surface cannot be maintained using a 10 foot screen length, reduce the screen length as necessary to maintain the minimum 7 feet of separation”. MDE recommends a smaller screen length to reduce oxidation and reduction potential due to water level fluctuations which can impact groundwater chemistry.

Response: At the request of the MDE we have modified the text at the bottom of Table 1 to specify that the wells will be screened using a 5 ft. screen.

77. Section 16, Table 2: The lead Practical Quantitation Limit (PQL) for lead is listed as 10 ug/L. This does not meet the PQL of 2 ug/L which was provided in previous correspondence and will be part of an issued permit. Please amend the proposed PQL, or include documentation from the laboratory as to why the PQL listed in Table I cannot be achieved.

Response: PQL for lead in Section 16, Table 2 has been corrected from 10 ug/L to 2 ug/L.

78. Section 16 Attachment 16D: Please include a map for the groundwater plan that only depicts groundwater contours and removes the cross-section lines.

Response: Section 16, Attachment 16D is a copy of Figure 12 from the Phase II

Application. As requested, we have removed the cross-section lines from the Figure.

79. Prior to issue of the permit you must submit proof that the deed pertaining to the proposed site has been amended to stipulate that upon close-out of the operation, construction or excavation on this site may not begin without first obtaining written authorization from MDE as required by COMAR 26.04.07.17B and 26.04.07.09B.

Response: NWM is prepared to amend the deed for the property as stipulated, after notification that the Permit is approved and ready for finalization.

80. Comment: Drawing 3, The East Entrance is labeled assumed future entrance (see Drawing 3). This is Drawing 3, please clarify. The North Entrance refers to Drawing 5 but should refer to Drawing 6. Please review all Drawing references for accuracy.

Response: The references cited on Drawing 3 have been reviewed and edited. Please note that the Drawings for the North and South entrances have been changed to 89 and 90, respectively.

81. Drawing 4, Note 9 states that the wheel wash shall have a water storage compartment with the pipe drain connected to a concrete cleanout, and that the landfill operator shall pump water from the clean out to a tanker truck. Please address where the water pumped to tanker truck be disposed of, and the conditions for determining when the sediment in the cleanout concrete must be cleaned out (e.g., a frequency, depth of sediment, etc.).

Response: We have added additional language to Note 10 on Drawing 4, Note 9 on Drawing 5, and Note 9 on Drawings 89 and 90 (formerly Drawings 6 and 7) stating that the water pumped from the clean out may be used for dust suppression in active waste fill areas or shall be transferred to the leachate tanks.

82. Drawing 6 shows a three lane entrance road (39 feet wide) with a 15 feet wide 'queue lane' and a 24-foot wide egress/ingress for the Optional North Entrance but the width of the entrance road shown on Drawing 8 is 24 feet. Also, on Drawings 64 and 65, the optional north entrance is labeled as the East Entrance. Please revise the plans to eliminate these discrepancies.

Response: We have added a new detail to Drawing 8 specifying a width of 45 feet wide for the "Optional North Entrance" and 60 feet wide for the "Optional South Entrance" queue lanes. We have revised the referenced notes on Drawings 64 and 65 to more clearly state that the 12 feet wide emergency vehicle lane and associated 30 feet wide clearing are only required if the "Optional North Entrance" is not constructed as the main facility entrance.

83. Drawings 10 and 11:

- a. These drawings are titled "Top of Subbase Grading Plan", but Drawing 14 "Liner System Details" does not show the required two feet of subbase. Also, please include a Drawing that shows the prepared subbase plan, and include a note that the cell floor shall have a minimum of 2 percent slope post-settlement at all locations.

Response: We have created grading plans showing the Bottom of

Subbase (Drawings 6 and 7) based on a subbase thickness of 24 inches. (Previous Drawings 6 “Optional North Entrance Plan” and 7 “Optional South Entrance Plan” have been renumbered as Drawings 89 and 90 respectively). Drawings 10 and 11 present the Top of Subbase, with grading that is 24 inches higher than bottom of subbase grading. We have added a note to Drawings 10 and 11 that “the cell floor shall have a minimum of 2 percent slope post-settlement at all locations”.

- b. Please label the percent slope of the cell floors. Some slope arrows are not pointing in the direction of the leachate flow and seem to have an elevation labeled that is not consistent with the cell floor, but instead the closure elevation. Also please provide the acreage of the cells.

Response: The cell floor slope arrows on Drawings 6 and 7 (presenting bottom of prepared subgrade) and Drawings 10 and 11 (presenting the top of prepared subgrade) have been revised to show the slope alignment towards the sumps. The slope for the leachate collection headers and laterals can be found on Drawings 17 and 18. The slope arrows for the cross cell laterals do not point to the sump, but rather to the header. We have added tables providing the cell areas and critical sump elevations to Drawing 6 and 10 for West cells and Drawing 7 and 11 for the East cells.

- c. The meaning of the blue lines in the drainage area, and the green, purple and orange lines, are not included in the legend.

Response: The blue lines on Drawings 10 and 11 is the floodplain, we have revised the line type in the legend to more closely match the line type in the Drawing. The green line on Drawing 11 is the wetlands line, this is already in the legend. There are no wetlands on Drawing 10. There are no purple or orange lines on Drawings 10 or 11. We identified a small section of purple contours in Basin 4 on Drawings 18 and 39 that has been changed to black. There are no orange lines on Drawing 10 or 11. The only orange lines in the entire drawing set that were not defined in the legend are on Drawings 31 and 39. We have added a label to this line identifying it as “the alignment of the emergency access road if the North Entrance option is not constructed”.

- d. Cell 5C appears to be missing a contour line in the corner farthest away from the sump if the slope remains consistent throughout the cell floor. Show the 2% minimum slope in this corner.

Response: We added the missing contour line in the corner of Cell 5C.

84. Drawing 14:

- a. You have proposed an alternate liner system. The report must be revised using the COMAR liner system. Please remove references to the unapproved alternate design.

Response: We have eliminated the alternate liner system and revised the details and design grading plans to clearly state that the liner system shall consist of (from top to bottom) 48 inches of Select Waste; 10 oz/sy nonwoven geotextile; 24 inches of Leachate Collection Layer; Geocomposite Drainage Layer; 60 mil HDPE Geomembrane; and 24 inches of prepared Subbase (with a permeability less than or equal to 1×10^{-5}

- cm/sec).
- b. Detail 1 shows 24-inches of select rubble waste instead of 48-inches.
Response: The design has been revised to specify 48 inches of Select Waste above the leachate collection layer.
 - c. In Detail 2/14 it is recommended that the anchor trench be 2' x 2' with geosynthetics running through the bottom of the trench, like an L shape, to prevent pullout.
Response: We have modified the anchor trench detail to show a bottom width of 24 inches, with the geosynthetic components running to the back of the trench.
 - d. In Detail 2/14 the geocomposite label points to the geotextile layer, please correct this misidentification.
Response: The geocomposite leader line has been fixed.
 - e. It is recommended that the "protective cover" be called "select waste" to minimize confusion.
Response: We have made the revision as requested.
 - f. In Detail 2/14 the 1 foot minimum temporary cover shown must be a well compacted select fill.
Response: The referenced detail has been revised and does not call out the temporary cover layer.
 - g. Detail 3/14 should show the 3 feet minimum buffer distance from the highest observed or predicted groundwater elevation.
Response: We have added the 3 feet minimum separation to the detail.
 - h. Detail 4/14 does not label the 10 oz non-woven geotextile over the leachate collection layer.
Response: The referenced detail has been modified and the geotextile layer referenced.
 - i. Liner System Detail (Sheet 1 of 3), Detail 1-COMAR Required Liner System and Detail 2-Alternate Liner System Floor shows the 3 feet buffer requirement as part of the prepared subgrade. This nomenclature is confusing. Please note, the 3 feet buffer should be depicted based on the maximum observed/expected groundwater elevation and not part of the cell floor subgrade preparation. The cell floor grading through excavation and/or structural fill must be above the 3 feet buffer requirement. Please correct the details to show this information.
Response: We have modified the design and design details to indicate at least 3 feet of vertical separation between the maximum observed/predicted groundwater level and the bottom of the 24-inch thick prepared subbase layer.

85. Drawing 17:

- a. Cell 5E has a leachate header pipe along the crest of the cell floor - what purpose does this serve?
Response: Cell 5E was separated into two cells (Cell 5E and Cell 5F). The referenced header pipe is for the Cell 5F. We have modified the Drawings to depict the additional Cell.
- b. Leachate Collection System Grading Plan & Layout West (1-10) shows two 8-inch leachate collection headers in Cell 5E. As depicted on this drawing, there are to lowest points/sumps for this cell. What is the reason for having two sumps

in one cell? Should there be an intercell berm for Cell 5F that was included in Tables 4 and 5 (see comment 33 above) but not depicted in drawings? Please clarify this.

Response: Cell 5E was separated into two cells (Cell 5E and Cell 5F). The referenced header pipe is for the Cell 5F. We have modified the Drawings to depict the additional Cell and show the inter-cell berm.

86. Drawing 18, Cell 11 has a 6" leachate collection lateral that doesn't connect to the force main. Please clarify. There is a cleanout pipe missing on the other 6" leachate collection lateral.

Response: The 6" leachate line was an erroneous line that has been removed. We have added the missing cleanout.

87. Drawing 19:

- a. Detail A/19 Section A-A' shows a 2" HDPE SDR-17 Forcemain inside 6" HDPE SDR-17 Containment. All other references to forcemain sizes are 6" pipes inside 10" containment. Please clarify if this is an error, or if the pipe changes sizes.

Response: The referenced details should be a 6" inside a 10" containment pipe. We have corrected the detail.

- b. Detail A shows a protective cover/select waste and mulch/wood chips placed on the side slope, please note the select waste should be placed on all areas of the side slope. Also, mulch/wood chips are proposed as a temporary fill; please note that a structural fill should be used as temporary fill.

Response: We have changed the specified detail and material to structural fill beneath the riser pipes and added a notation that it will be removed at time of cap construction.

88. Drawing 20:

- a. Detail 2 – How will the cleanout be supported/protected?

Response: Detail 2 on Drawing 20 depicts the Cleanout Pipe during filling operations. The Cleanout Pipe is supported by the Structural Fill placed as Temporary Cover over the liner system. We have added a note to Drawing 20 indicating that the length of the pipe protruding from the Temporary Cover shall be 3 feet (max). This will ensure the pipes will be self-supporting. We have added additional detail to Detail 3 on Drawing 35 showing the Cleanout configuration after Closure finished in an HDPE box with bolted lid set in concrete.

- b. Details 2 and 3 show the side slope at 2:1 slope instead of 3:1.

Response: The referenced side slopes are intended to be 3:1. The details have been revised.

- c. Detail B does not show the type of geotextile placed on the 57 stone aggregate.

Response: We have added a notation regarding the geotextile weight around the 57 stone.

89. Drawing 22: Please provide a detail that shows the forcemain coming from the cell connecting into the forcemain that carries leachate to the storage tanks. Also, see comment 55 above for forcemain cleanouts spacing.

Response: We have added details regarding the transition from the forcemain with secondary containment from the cells to the tanks. As shown on Details 1 and 2 on Drawing 28 and Detail 2 on Drawing 29, the forcemains will remain underground until they reach a valve vault adjacent to their respective leachate tank containment areas. From the vaults, the lines will turn vertically to follow the outside wall of the containment area and then turn horizontal at the top of the wall. The secondary containment will termination 2 feet inside the containment wall and the primary pipe will proceed to the tank inlet. There will be separate inlets for each forcemain. We have also modified the spacing for the forcemain clean out spacing to 400 feet (max).

90. Drawing 27: sub-cells 5A through 5F are shown in the “list of pumps table” but Drawings 3, 10, 12, and 71 through 81 show sub-cells 5A through 5E. Revise the plans to eliminate these discrepancies.

Response: This discrepancy has been corrected.

91. Drawing 29, Detail 2 shows the pipe to drain spilled leachate from the leachate loading pad to the secondary containment sump but there is no further description of how and when this liquid will be pumped from this sump. Also, Detail 3, lacks a pipe connection from Tank 101 or Tank 102 to the loading pipe.

Response: We have added a note to Drawing 29, stating that leachate spilled during tanker truck loading shall be pumped from the tank containment area sumps to the leachate tanks. We have modified detail 3 on Drawing 29 to show both tanks connected to the loading pipes. We also modified to pipe material from 2” HDPE to 2” SCH 80 PVC.

92. Drawing 34:

- a. Details 1, 2 and 4 – As discussed in previous comments, 24” of final cover is required under the liner.

Response: This change has been made.

- b. Detail 2 –How will the lower geocomposite be anchored to prevent slide? How will the upper geocomposite prevent stormwater from backflowing inward if the bench is at full capacity, the detail does not clearly show if it is at a higher elevation than at the top of the bench. Is it designed this way because there is a concern that the geocomposite will not be able to adequately manage the infiltrated stormwater conveyance, and if so, is there a different geocomposite with a greater capacity?

Response: Detail 2 has been revised to eliminate the toe drain above the Final Cover Terrace. The geocomposite is adequately sized to convey the anticipated flow rates within the geocomposite Drainage Layer.

- c. Detail 3 – Why is there an anchor trench on the flat portion of the cap and how will this trench convey stormwater off the top of the landfill if it is left in place? It does not appear that the trench would be removed after being tied into the next phase. Please explain this design feature.

Response: The anchor trench is intended to be temporary. We have added notes stating that the trench will be removed when the future Closure Cap is installed, that the 10 oz/sy non-woven geotextile and rub sheets are temporary, and that the temporary anchor trench should be backfilled with

Final Cover material.

- d. Detail 4 – Select waste is shown directly over the prepared subgrade, without a bottom liner system present. The cap liner system must be tied into the bottom liner system.

Response: We have modified the detail to clarify that the Liner System geosynthetic components are present, and that the Select Waste layer terminates inside the top of berm.

93. Drawing 35:

- a. Detail 2, see comment 16.

Response: Detail 2 has been revised to show 6-inches of vegetative support layer, 18-inches of protective cover, cap geosynthetics and 24-inches of Final Cover

- b. the geocomposite drainage net is labeled as “turf reinforcement matt”.

Response: The Figure has been revised.

- c. a 12-inch intermediate cover is labeled “AASHTO No. 57 stone”.

Response: The details have been revised.

94. Drawings 36 and 37 show the proposed maximum grade elevation is 270 feet above mean sea level (ft-amsl), please confirm that the max elevation for the landfill will not exceed 30 feet above the natural grade of the surrounding to conform with the Anne Arundel County Code § 18-11-131. Drawing 36, Note 4, revise the typo “time of concentration”.

Response: The landfill cap grades have been revised. The revised top of cap grades have been set at or below elevation 226. The highest natural grade is elevation 196. In addition, the cap slope has been reduced from 3:1 to 4:1. The result of the cap changes and the raised bottom of cell elevations is a reduction in volume of approximately 40-percent. The revised volumes are provided in greater detail in Section 5.0.

95. Drawing 46 Sediment Trap Details is blank. Are there Sediment Trap Details?

Response: A sediment trap will be required at the discharge to the Amtrak/Conrail right-of-way in the southwest corner of the site. Drawing 46 presents the general configuration for a sediment trap sized to accommodate the Optional South Entrance configuration. If the Optional South Entrance is not developed then a smaller sediment trap consistent with the Maryland Standards and Specifications for Soil Erosion and Sediment Control Detail G-1-2 (Drawing 61) will be required in the same location. We are preparing the Anne Arundel County Erosion and Sediment Control Permit Application based on the assumption that the Optional South Entrance will not be constructed (i.e. that the standard detail will be utilized). The remaining sediment traps are integrated with the propose based basins.

96. Drawings 64 and 65, revise the road labeled “assumed east entrance” to “optional north entrance”, and there is “tank overflow pipe” written on the drawing but no pipe is shown.

Response: The requested changes have been made.

97. Drawings 66, 67, 68 and 69 do not include elevations on the contours.

Response: We have intentionally left the contours for the bottom of cell grading off the sequence of construction drawings because the contours are intended to represent the cell that is under construction/awaiting to begin receipt of the waste. Therefore the contours present in the bottom of the cells could be Bottom of Subbase, Top of Subbase, and Top of Leachate Collection Layer, depending on the stage of construction. We have removed the contour labels from Drawings 71 through 80 for consistency between the East and West area information. Please see drawings 6 and 7, 10 and 11, and 17 and 18 for the Bottom of Subbase, Top of Subbase, and Top of Leachate Collection Layer elevations specifically.

98. Drawings 71 and 72 show stockpiles on the Cells 3 and 4 prepared subgrade. Notes on Drawings 72 through 81 state that place intermediate cover on portions of Cells which have achieved maximum filling grades. Please see comment 16 above.

Response: The referenced stockpiles will be removed prior to the start of subbase construction. We have changed the term Intermediate Cover in the notes to Final Cover and Closure Cap.

99. Drawing 85 – The gas probes are too far away from the landfill. By the time gas migration is detected, the gas will be leaving the property boundary. The gas detection wells should be located closer to the landfill. What are the arrows being depicted on this drawing? Please provide more information about this drawing.

Response: We have revised to locations for the gas wells. The revised locations are immediately outside the perimeter access road and drainage features. We have also shown the wells relative to the proposed cell grading.

100. Drawing 86, West Section Landfill Gas Collection Control System Plan shows Flare Paddock A and Flare Paddock B (See Drawing 85). Drawing 85 does not provide information about the Flare Paddocks. Does the gas collection system piping connect to the Flare Paddocks? The drawing does not show a connection to either flare paddock.

Response: Flare Paddock information has been added to Drawing 59. We have performed preliminary sizing for the system and have determined that for the projected volume of waste, the system will most likely be prefabricated modular or skid mounted unit(s). Drawing 59 shows the paddock as a single location near Leachate Storage Facility No. 1. Our layout shows separate units for the East and West areas, although the system may be a single unit if deemed appropriate by the vendor. We have specified the use of enclose flames. The connections will come to the paddock underground from the direction of their disposal areas. Within the paddock the header piping will come to the ground surface and connect to the modular/skid unit(s).

101. Drawing 87, the top of the landfill has a significant area that is void of gas collection system's area of influence. The gas collection system must be able to capture the gas that rises to the top of the landfill. Also, Flare Paddock B, depicted in Drawing 86, is not included in the same location on this drawing. Please clarify.

Response: Minor adjustments to the gas collection well locations have been made to reduce overlap and improve coverage. In addition, we determined that the radius of influence shown on the previous submission was only 120 feet. The

calculated radius was 132 feet. We have modified the radius of influence depicted on the Drawing to 130 feet.

102. Drawing 88:

- a. Details 2, 5, and 6 show 12" intermediate cover as the top layer. Detail 4 shows 16" of intermediate cover. Is the gas header pipe tying into the leachate collection system? Please provide a detail of the proposed header piping connection to the gas collection wells for collection, or vents to release the gas.

Response: The details on Drawing 88 have been revised to show the 24-inch thick Closure Cap and 24-inch thick Final Cover. Detail 4 on Drawings 88 previously showed that the gas collection system header pipes had condensate drains connected to the leachate side slope risers. We have modified the design to eliminate this interconnection with the leachate collection system and are now proposing condensate sumps be located at the header low points. The sump is a 12-inch diameter HDPE pipe with bolted lid and a stone filled bottom set into the waste. The header will be interconnected with the sump by a 3-inch diameter HDPE pipe. See Detail 1 on Drawing 88 for the connection between the wells and the header pipe.

- b. Detail 2 shows a 14-foot depth from top of final cover to top of screen, and states that screen length is usually the well depth minus 16 feet. Is this always true?

Response: We have modified the detail to include the 24-inch thick Closure Cap and 24-inch thick Final Cover. Based on the revised detail, the top of the screen is 18.5 feet below finished grade. The screen length will always be set as well depth minus 19 feet (18.5 feet plus 0.5 feet separation from bottom).

- c. and this detail lacks to show the depth between bottom of boring and bottom of screen.

Response: We have revised the detail to show that the distance between the bottom of the hole and the bottom of the screen is 0.5 feet.

103. Drawing 40 is not included in the full-size drawing sets. Drawings 45 and 46 are described as being "in progress". Drawings 59, 82, 83, 84, 89, and 90 are reserved. Why are these Drawings listed in the Index?

Response: The drawing set has been completed. There are no longer any "Reserved" drawings.

II. Comments Pertaining to the Phase II Addendum:

104. The July 2020 sample for MW-22 returned a detection of acetone of 21 ug/L. No preceding sampling event detected acetone at MW-22. An equipment blank associated with the same day of sampling as MW-22 detected acetone at 25 ug/L. Considering the lack of detection during the previous events and that a similar concentration of acetone was detected within a blank sample, MDE questions whether the acetone detection at MW-22 is valid. The discussion must be enhanced to explain how laboratory or sampling error has been eliminated as a source. If this determination cannot be made conclusively, the highest observed result within the Sample Summary Table of Section 4.6.2 will require revision.

Response: Our chemist reviewed the data and contacted the lab. The detection showed up in the equipment blank and the sample. A specific source for the reading could not be identified. We have updated the text to report the higher value. A copy of the revised report page is attached to this response to comments letter.

105. Table 10B-1, which summarizes the March 23-28, 2020 sampling event, lists the detection of nitrate at well MW-29 as 446 mg/L with a reporting limit of 20 mg/L. The concentration as indicated from the laboratory analysis dated March 25th was 475 mg/L with a reporting limit of 0.1 mg/L. Table 10B-1 should be revised to reflect the correct laboratory information. Furthermore, MDE acknowledges the March nitrate concentration for MW-29 was rejected, and a sample was re-analyzed on April 17, 2020. Time-series data within Table 11 only includes the rejected nitrate concentration. Table 11 must be revised to reflect the accepted nitrate concentration.

Response: The Table has been revised. A copy of the revised table is attached to this response to comments letter.

106. The discussion within Section 6.4.1 states several wells reported suspect pH values during the July 2020 sampling event. MDE previously indicated the need to confirm possible erroneous sampling data. The pH values should have been verified upon discovery of the extent the data was out of the normal range for the well. MDE previously advised and now maintains another round of sampling is necessary during the 4th quarter of 2020. MDE will not accept suspect data prior to waste placement and expects protocols for sampling confirmation to be developed and implemented.

Response: The MDE comment was received in July 2021, too late for a repeat sampling event in 4th quarter 2020. The Phase III Application is proposing a new groundwater monitoring network consisting of 31 wells. NWM anticipates that it will be required to install and complete 4 consecutive quarterly groundwater monitoring events and 12 consecutive monthly groundwater level measurements at all the new wells prior to the start of waste placement.

107. Section 6.4.1 misreports a pH value as 18.2 SU, which is beyond the range of the standard pH scale. Please revise this section as necessary.

Response: The correct value should be 13.2 S.U.s (PMW-6). Section 6.4.1 of the September 9, 2020 Phase II Permit Application Addendum has been modified. A copy of the revised page is provided as an attachment to this response to comments letter.

108. Several columns of Table 10 are cut off due to the formatting and must be resubmitted to show the data in its entirety. MDE made the same comment for tables within the previous Phase II submittal.

Response: The referenced Table has been reformatted to eliminate the cutoff. A copy of the revised table is attached to this response to comments letter.

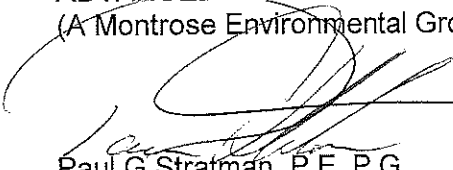
Mr. Andrew Grenzer, Chief of Solid Waste
2018-3854
September 9, 2020
Page 27 of 27



We believe that the response provided above and the revised Phase III Application (attached) address the comments contained in your July 27 2021 letter. Please contact me at 610-389-2468 if you have any additional questions or comments.

Sincerely,

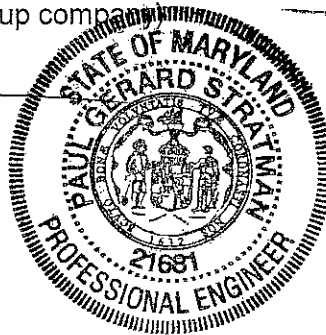
ADVANCED GEOSERVICES CORP
(A Montrose Environmental Group company)


Paul G Stratman, P.E., P.G.
Consultant

PGS:mav

Attachments

cc: Steve Fleischman (NWM)



Ms. Sara Haile
2018-3854
January 14, 2022



Attachment B

Revised Phase II Report Text and Tables

The remaining samples were kept on ice and shipped via laboratory courier under chain-of-custody procedures.

6.3 SAMPLE ANALYSIS

Samples analysis and the corresponding Method performed during the 2020 sampling was as follows:

- VOCs; 8260B/8260C
- TAL Metals (with Mercury); 6020/6020B (excluding aluminum)
- Chloride/Sulfate; 300.028D – (MOD)
- TDS; 2540C
- Total Alkalinity; 2320B
- Ammonia; SM4500-NH3H/EPA 350.1
- COD; 5220D
- Hardness as Calcium Carbonate; 2340C

All samples were shipped to Test America Analytical Laboratories.

6.4 GROUNDWATER RESULTS

Results for the 2020 Sampling are presented by sampling event and water bearing zone in Tables 10A through 10D (Events 1 through 4, respectively) and chronologically by well in Table 11. The field parameters, field purge sheets and logbook for each sampling event are presented in Appendix P1 (Event 1) Appendix P2 (Event 2), Appendix P3 (Event 3) and Appendix P4 (Event 4).

A tabular summary of results by groundwater zone for the parameters specifically required by COMAR 26.04.07.15 are presented on page 6-7. The Confined WBZ results include the results of wells screened within the transition zone and the Lower Patapsco Aquifer.

6.4.1 Groundwater Quality - Unconfined WBZ

pH

pH in the Unconfined WBZ were typically observed at levels below 5.5 SUs. The lowest pH values were observed at MW-21 (2.84 SUs, Round 1). During Round 4 sampling the pH levels in MW-5, 6, 22 and 24, and PMW-6 and 28 exhibited an increase relative to the first three rounds, jumping to levels between 7.4 and 13.2 SUs. All the wells were sampled on July 9 and 10, the last 2 days of Round 4 sample collection (pH results from the first 3 days were all consistent with Rounds 1, 2 and 3). The sampling was performed utilizing two - one person crews each with their own flow through cells and pumps. The samplers performing the sampling on those dates were highly experienced, each with greater than 20 years of experience. On July 9, all the wells (MW-5, 6, 22 and 24) sampled by 1 of 2 samplers (R. Christy) were higher (7.4 to 9.14 SUs) than previous events, while the wells sampled by the second sampler (A. Doubleday) were unremarkable. On July 10 the wells sampled by R. Christy continued to have results in the 8 to 9 SU range, while A. Doubleday had results between 4.5 and 13.18 SUs. Alkalinity and the concentrations of multi-valent cations in the samples remained relatively unchanged between the first three rounds and the fourth round. The specific

cause of the Round 4 pH results on July 9 and 10 could not be deciphered and the results have not been disqualified from consideration, however, they remain suspect.

Alkalinity

Alkalinity represents capacity of bases in the water to neutralize acids. The alkalinity is reported as the equivalent calcium carbonate concentration (CaCO_3). Measured alkalinity in the Unconfined WBZ in the 2020 sampling were at levels considered low to very low (Non-detect to 23.8 mg/L). This is reflection of the typically very low pH levels.

Hardness

Hardness results for the Unconfined WBZ were all below 36 mg/L, except in MW-15 and 21 where levels up to 52 and 58 mg/L, respectively, were observed. Any water <60 mg/L is considered “soft”.

Chloride

The secondary drinking water standard for chloride is 250 mg/L. The observed results in the Unconfined WBZ during all 2020 sampling events were all below 7 mg/L.

Specific Conductance

Specific conductance is considered a reflection of the amount of dissolved solids present in the groundwater. The higher the specific conductance, the higher the concentration of dissolved solids. The observed values for the Unconfined WBZ were between 0.043-0.094 mS/cm – millisiemens/centimeter, which indicates low concentrations of dissolved solids. There is not a standard for Specific Conductance.

Nitrate

Nitrate has a primary drinking water standard of 10 mg/L. The Nitrate results in the Unconfined WBZ were all less than 2.18 mg/L.

Chemical Oxygen Demand

Chemical Oxygen Demand (COD) is a representation of the amount of organic matter in an aqueous sample. In groundwater elevated COD levels can be caused by such sources as septic systems and organic compounds (such as oil). COD levels in the Unconfined WBZ were low (<20 mg/L) or below detection, except in MW-15 where COD was measured between 26.6 to 46.8 mg/L in every sampling round, and MW-17 where COD was measured at 766 mg/L in Round 2. COD does not have an MCL.

Metals

COMAR 26.04.07.15 requires analysis for arsenic, barium, cadmium, chromium, lead, mercury and zinc. Metals analysis for the COMAR 26.04.07.15 parameters identified total concentrations of arsenic, barium, chromium, lead and zinc above their corresponding reporting limits, but all below their corresponding screening level. Total cadmium and mercury concentrations were below

detection in the Unconfined WBZ in all four round. Although not required by COMAR 26.04.07.15 groundwater analysis also included antimony, beryllium, calcium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, selenium, silver, sodium, thallium and vanadium. All the additional metals were below their corresponding MCL/screening level except iron and/or manganese in MW-15 through 22, MW-25, 27, 29 and 30, and PMW-28 where one or more rounds was above the secondary drinking water standards of 300 µg/L and 50 µg/L, respectively.

Volatile Organic Compounds (VOCs)

Sampling for Volatile Organic Compounds (VOCs) detected three (3) compounds in the Unconfined WBZ above their corresponding reporting limits. Those compounds were acetone, chloroform and methyl tert-butyl ether (MTBE).

- Acetone was detected in the unconfined WBZ three (3) times (MW-15 twice and MW-22 once). Only one of the MW-15 results was above the reporting limit (6.4 µg/L, January 30, 2021). The MW-22 detection (21 ug/L, July 9, 2020) coincided with equipment blank contamination. The MW-22 detection was “B” qualified and should not be utilized for background statistical purposes. Although there is not an MCL for acetone, for comparison purposes, when compared against the USEPA Regional Screening Level (RSL) for tap water (14,000 µg/L) the observed detections were all significantly below.
- Chloroform was detected in the unconfined WBZ 11 times (MW-16 – 3 times, and MW-19 and MW-20 - 4 times each). The highest observed chloroform result was 4.1 µg/L (MW-20, July 7, 2020). The chloroform screening level is 80 µg/L. MW-16, 19 and 20 are located in the same vicinity in the southwest portion of Area B.
- MTBE was detected in the unconfined WBZ nine (9) times (MW-4 and MW-5 – 4 times each, and MW-6 – once). The highest observed MTBE was 1.6 µg/L (MW-4, May 21, 2020). There is not a MCL for MTBE, for comparison purposes, the USEPA Regional Screening Level (RSL) for tap water (14.0 µg/L). MW-4, 5 and 6 are located in the same general vicinity in Area A.

6.4.2 Groundwater Quality - Confined WBZ

pH

pH levels in the Confined WBZ were typically observed at levels between 3.4 and 6.7 SUs. The lowest pH value was observed at PMW-23 (3.4 SU, Round 1). Similar to the Unconfined WBZ, wells sampled on July 10, 2020 (MW-10, 14 and PMW-18) by both samplers exhibited field pH values notably higher than previous rounds. The Confined WBZ wells sampled by R. Christy on July 10, 2020, MW-10 and PMW-18 had pH levels of 8.5 and 8.54 SUs, respectively. The Confined WBZ well sampled by A. Doubleday on July 10, 2020, MW-14 and PMW-23, had pH levels of 12.6 SUs. Alkalinity and the concentrations of multi-valent cations in the samples remained relatively unchanged between the first three rounds and the fourth round. The specific cause of the Round 4 pH results on 10 could not be deciphered and the results have not been disqualified from consideration, however, they remain suspect.

Alkalinity

Measured alkalinity in the Confined WBZ in the 2020 sampling were at levels considered very low to low (Non-detect to 50.8 mg/L). This is reflected in the typically low pH conditions.

Hardness

Hardness results for the Confined WBZ were all below 20 mg/L, except in MW-14 and PMW-28 where levels up to 56 and 36 mg/L, respectively, were observed. Any water <60 mg/L is considered "soft".

Chloride

The secondary drinking water standard for chloride is 250 mg/L. The observed results in the Confined WBZ were all below 3.41 mg/L.

Specific Conductance

The observed values for the Confined WBZ were between 0.029-0.123 mS/cm, which indicates low concentrations of dissolved solids. There is not a standard for Specific Conductance.

Nitrate

Nitrate has a primary drinking water standard of 10 mg/L. The Nitrate results in the Confined WBZ were all less than 1.4 mg/L.

Chemical Oxygen Demand

COD levels in the Confined WBZ were low (<20 mg/L) or below detection, except in MW-14 where COD was measured in all 4 rounds between 6.3 to 44.8 mg/L and MW-28 where COD was measured in all four rounds between 11.4 and 28.8 mg/L. As described below MW-14 had PCE above its MCL in Round 1 and detectable concentrations of acetone in Round 3. MW-28 did not have any VOC detections.

Metals

COMAR 26.04.07.15 requires analysis for arsenic, barium, cadmium, chromium, lead, mercury and zinc. Metals analysis for the COMAR 26.04.07.15 Parameters detected total concentrations of barium, chromium, lead and zinc above their respective reporting limits, although none was above its corresponding screening levels. Similar to the 2020 Unconfined WBZ groundwater sampling, low flow sampling techniques were successfully utilized in all the Confined WBZ wells.

Although not required by COMAR 26.04.07.15 groundwater analysis also included antimony, beryllium, calcium, cobalt, copper, iron, magnesium, manganese, nickel, potassium, selenium, silver, sodium, thallium and vanadium. All the additional metals were below their corresponding MCL/screening level except iron that was above the secondary drinking water standard of 300 µg/L on two (2) or more occasions in every Confined WBZ well and manganese in MW-14 and 28, and PMW-12 that was above its corresponding secondary drinking water standard of 50 µg/L.

Volatile Organic Compounds (VOCs)

Sampling for Volatile Organic Compounds (VOCs) detected three (3) compounds in the Confined WBZ above their corresponding reporting limits. All VOC detections were in groundwater monitoring well MW-14. The compounds were acetone, cis-1,2-DCE, and PCE.

- Acetone was detected once in MW-14 at 5.0 µg/L (May 21, 2020). Although there is not a MCL for acetone, when compared against the USEPA Regional Screening Level (RSL) for tap water (14,000 µg/L) the observed result in MW-14 was 5 µg/L.
 - cis-1,2-DCE was detected once in MW-14. The observed concentration was 1.9 µg/L (February 3, 2020). The MCL for cis-1,2-DCE is 70 µg/L.
 - PCE was detected twice in MW-14. The highest observed detection in MW-14 occurred in Round 1 and was 7 µg/L (February 3, 2020). The MCL for PCE is 5 µg/L.
- TCE was also detected in MW-14, however the detected concentration (0.68 µg/L) was "J" qualified.

**Sample Summary Table (Rev 1/11/2022)
2020 Groundwater Sampling - 4 Events**

Parameter	CAS	MDE MCL Criteria	Screening Criteria Notes	Unit	Unconfined WBZ Wells				Confined WBZ Wells			
					Total Number of Samples Analyzed	Total Number of Detections	Highest Observed Result	Detections Above Screening Criteria	Total Number of Samples Analyzed	Total Number of Detections	Highest Observed Result	Detections Above Screening Criteria
Volatile Organic Compounds												
Acetone	67-64-1	NS		ug/L	72	2*	6.4	NS	36	1	5	NS
Chloroform	67-66-3	80	TTHM	ug/L	72	11	1.8	0	36	0	ND	0
cis-1,2-Dichloroethene	156-59-2	70	P	ug/L	72	0	ND	0	36	1	1.9	0
MTBE	1634-04-4	NS		ug/L	72	9	1.6	NS	36	0	0	0
Tetrachloroethene	127-18-4	5	P	ug/L	72	0	ND	0	36	2	7	1
Total Metals												
Arsenic	7440-38-2	10	P	ug/L	72	18	8.5	0	36	12	2	0
Barium	7440-39-3	2000	P	ug/L	72	72	130	0	36	35	43.5	0
Cadmium	7440-43-9	5	P	ug/L	72	6	ND	0	36	1	0.51	0
Chromium	7440-47-3	100	P	ug/L	72	31	6.3	0	36	20	9.3	0
Lead	7439-92-1	15	AL	ug/L	72	34	3.5	0	36	27	5.5	0
Mercury	7439-97-6	2	P	ug/L	72	0	ND	0	36	0	ND	0
Zinc	7440-66-6	5000	S	ug/L	72	44	284	0	36	26	411	0
General Chemistry												
Alkalinity, Total	ALK	NS		mg/L	72	30	23.8	NS	36	16	50.8	NS
Chemical Oxygen Demand	COD	NS		mg/L	72	13	26.6	NS	36	10	44.8	NS
Chloride	16887-00-	250	S	mg/L	72	72	6.81	0	36	36	3.41	0
Hardness, Calcium Carbonate	HARDCA	NS		mg/L	72	70	58	NS	36	29	56	NS
Nitrate as N	14797-55-	10	P	mg/L	72	53	1.01	0	36	18	1.4	0
Notes:												
P - EPA Primary MCL, S - EPA Secondary MCL, AL - EPA Action Level, RE - No MCL but recommended level by EPA												
TTHM - Total Trihalomethanes includes the sum of Bromodichloromethane, Bromoform, Dibromochloromethane and Chloroform												
mg/L - milligrams per liter												
ug/L - micrograms per liter												
ND- - Below Reporting Limit												
NS - No Standard												
* Note: Acetone was detected in MW-22 @ 21 ug/L in July 9, 2020 sample, however the corresponding equipment blank detected acetone at 25 ug/L; therefore this result is excluded from this table.												

6.5 STATISTICAL ANALYSIS

A statistical analysis of the four (4) 2020 sampling event results was attempted using the USEPA ProUCL statistical package. A copy of the statistical analysis for the Unconfined WBZ and Confined

WBZ are provided in Appendix Q1 and Q2, respectively. The following table presents the calculated 95% Upper Confidence Limits for detected COMAR 26.04.07.15 parameters. Those parameters with too few detections or no detections to produce a reliable 95% UCL are marked with Insufficient Data or No Detections, respectively. The July 2020 acetone result for MW-22 should not be included in future statistical analysis for background.

Parameter	Unconf. WBZ	Confin. WBZ	Parameter	Unconf. WBZ	Confin. WBZ
Arsenic	1.628	1.069	Barium	42.77	20.26
Cadmium	0.293	Insufficient Data	Chromium	3.254	3.666
Lead	1.278	1.967	Mercury	No Detects	No Detects
Zinc	44.34	68.66	Acetone	Insufficient Data	Insufficient Data
Chloroform	1.131	No Detections	MTBE	0.815	No Detections
PCE	No Detections	Insufficient Data	TCE	No Detections	Insufficient Data
Cis-1,2-DCE	No Detections	Insufficient Data			

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September 2020
Revised August 2021

TABLE 10A-1 - UNCONFINED
Event 1: GW Sampling Results Table
January 29 -February 4, 2020

Project 2018-3854

Sample Location				MW-4			MW-5			MW-6			MW-6-D			MW-15			MW-16			MW-17			MW-18			MW-19			MW-20			MW-21			MW-22					
Lab ID				460-202111-02			460-202111-01			460-202215-03			460-202215-04			460-201978-09			460-201978-10			460-201978-01			460-201978-02			460-201978-03			460-201978-04			460-201978-13			460-202215-01					
Sample Date				460-202236-02			460-202236-01			460-202362-03			460-202362-04			1/30/2020			1/30/2020			1/29/2020			1/29/2020			1/29/2020			1/29/2020			1/30/2020			460-202362-01					
Matrix				Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater					
Remarks																																										
Parameter	EPA MCL	Screening		FD of MW-6																																						
Criteria	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL			
Dissolved Metals																																										
Antimony, Dissolved	6	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Arsenic, Dissolved	10	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Barium, Dissolved	2000	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Beryllium, Dissolved	4	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Cadmium, Dissolved	5	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Calcium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Chromium, Dissolved	100	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Cobalt, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Copper, Dissolved	1300	AL	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Iron, Dissolved	300	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Lead, Dissolved	15	AL	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Magnesium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Manganese, Dissolved	50	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Mercury, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Nickel, Dissolved	100	RE	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Potassium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Selenium, Dissolved	50	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Silver, Dissolved	100	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Sodium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Thallium, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Vanadium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Zinc, Dissolved	5000	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA					
Conventional																																										
Alkalinity	NS		mg/L		U	5		U	5	5.4		5		U	5	8.3		5	13.5		5		U	5	23.8		5		U	5		U	5		U	5	6.5	5				
Ammonia	NS		mg/L		U	0.1		U	0.1		U	0.1		U	0.1	0.14		0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U F1	0.1			
Chemical Oxygen Demand	NS		mg/L		U	10		U F1	10		U	10		U	10	26.6		10		U	10		U	10	5.2		U F1	10	4.2	U	10		U	10		U	10		U F1	10		
Chloride	250	S	mg/L	5.62		0.12	6.01	F1	0.24	5.18		0.12	5.22		0.12	1.37		0.12	2.65		0.12	1.62		0.12	2.28		0.12	3.24		0.12	2.62		0.12	3.38		0.12	2.1	F1	0.12			
Hardness as calcium carbonate	NS		mg/L	26		5	18		5	14		5	14		5	52		10	30		5	18		5	36		5	14		5	12		5	58		5	18	5				
Nitrate as N	10	P	mg/L	0.2		0.1	0.39		0.1	0.22		0.1	0.24		0.1		U	0.1		U	0.1		U H	0.1	0.48		0.1		U	0.1	0.47		U	0.1	0.47		0.1	0.18	0.1			
Sulfate	250	S	mg/L	12.7		0.6	5.83		0.6	7.52		0.6	8.38		0.6	5.69		0.6	13.4		0.6	10.7		0.6	13.2		0.6	28.9		0.6	23.8		0.6	25		0.6	15.2	F1	0.6			
Total Dissolved Solids	500	S	mg/L	30		10	27		10	39		10	39		10	46		10		U	10		88		10	45		10	38		10	33		10	55		10	48		10		

Notes:
Shading exceeds EPA MCL screening criteria
P: EPA Primary MCL
S: EPA Secondary MCL
AL: EPA Action Level
RE: No MCL but recommended level by EPA
TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,
RL: Reporting Limit
Q: Qualifier
U: Compound not detected
J: The concentration is an estimated value.
B: Compound detected in sample and blank
ug/L: micrograms per liter
mg/L: milligram per liter
NS: No Standard
NA: Not analyzed
F1: MS and/or MSD exceeds control limits
*: LCS and/or LCSD outside of control limits
H: Sample analyzed beyond method holding time
MCL: Maximum Containment Level

TABLE 10A-1 - UNCONFINED
Event 1: GW Sampling Results Table
January 29 -February 4, 2020

Sample Location				MW-24			MW-25			MW-27			MW-29			MW-30			PMW-6			PMW-6D			PMW-28			
Lab ID				460-201978-12			460-202111-06			460-202362-10			460-202215-05			460-202236-06			460-202111-04			460-202111-07			460-202236-03			
Sample Date				1/30/2020			1/31/2020			2/4/2020			2/3/2020			1/31/2020			1/31/2020			1/31/2020			1/31/2020			
Matrix				Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			
Remarks	EPA MCL	Screening																				FD of PMW-6						
Parameter	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	
Volatiles																												
1,1,1,2-Tetrachloroethane	NS		ug/L		U	1		U*	1		U	1		U	1		U*	1		U*	1		U*	1		U*	1	
1,1,1-Trichloroethane	200	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
1,1,2,2-Tetrachloroethane	NS		ug/L		U	1		U*	1		U	1		U	1		U*	1		U*	1		U*	1		U*	1	
1,1,2-Trichloroethane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
1,1-Dichloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
1,1-Dichloroethene	7	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
1,2,3-Trichloropropane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
1,2-Dibromoethane	0.05	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
1,2-Dichlorobenzene	600	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
1,2-Dichloroethane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
1,2-Dichloropropane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
1,4-Dichlorobenzene	75	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
2-Butanone (MEK)	NS		ug/L		U	5		U	5		U*	5		U*	5		U	5		U	5		U	5		U	5	
2-Hexanone	NS		ug/L		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5	
4-Methyl-2-pentanone (MIBK)	NS		ug/L		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5	
Acetone	NS		ug/L		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5	
Acrylonitrile	NS		ug/L		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2	
Benzene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Bromochloromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Bromodichloromethane	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Bromoform	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Bromomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Carbon disulfide	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Carbon tetrachloride	5	P	ug/L		U	1		U*	1		U	1		U	1		U*	1		U*	1		U*	1		U*	1	
Chlorobenzene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Chloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Chloroform	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Chloromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
cis-1,2-Dichloroethene	70	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
cis-1,3-Dichloropropene	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Dibromochloromethane	80	TTHM	ug/L		U	1		U*	1		U	1		U	1		U*	1		U*	1		U*	1		U*	1	
Dibromomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Ethylbenzene	700	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Iodomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Methyl tert-butyl ether	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Methylene Chloride	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Styrene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Tetrachloroethene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Toluene	1000	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
trans-1,2-Dichloroethene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
trans-1,3-Dichloropropene	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
trans-1,4-Dichloro-2-butene	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Trichloroethene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Trichlorofluoromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Vinyl acetate	NS		ug/L		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2	
Vinyl chloride	2	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1	
Xylenes, Total	10000	P	ug/L		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2	
Total Metals																												
Antimony	6	P	ug/L	0.48	J	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2	
Arsenic	10	P	ug/L		U	2		U	2		U	2		U	2		0.99	J	2		U	2		U	2		U	2
Barium	2000	P	ug/L	18.9		4	26.6		4	43.3		4	26.1		4	22		4	26.4		4	27.6		4	49		4	
Beryllium	4	P	ug/L		U	0.8		U	0.8	0.27	J	0.8	1.3		0.8		U	0.8		U	0.8		U	0.8		U	0.8	
Cadmium	5	P	ug/L		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2	
Calcium	NS		ug/L	3710		200	2610		200	1910		200	1730		200	3230		200	2460		200	2690		200	2560		200	
Chromium	100	P	ug/L		U	4	3.3	J	4		U	4		U	4	3	J	4		U	4		U	4	5.9		4	
Cobalt	NS		ug/L		U	4		U	4	3.4	J	4	6.4		U	4	1.7	J	4		U	4		U	4		4	
Copper	1300	AL	ug/L	4.3		4	4.9		4	2.5	J	4		U	4	3.7	J	4		U	4		U	4	9.1		4	
Iron	300	S	ug/L	260		120	607		120	513		120	1010		120	2260		120	100	J	120	143		120	1090		120	
Lead	15	AL	ug/L		U	1.2	1.5		U	1.2		U	1.2		U	1.2	0.85	J	1.2		U	1.2		U	1.2		1.2	
Magnesium	NS		ug/L	3740		200	1420		200	1380		200	862		200	2600		200	2010		200	2110		200	1820		200	
Manganese	50	S	ug/L	24.7		8	11.																					

TABLE 10A-1 - UNCONFINED
Event 1: GW Sampling Results Table
January 29 -February 4, 2020

Sample Location				MW-24			MW-25			MW-27			MW-29			MW-30			PMW-6			PMW-6D			PMW-28		
Lab ID				460-201978-12			460-202111-06			460-202362-10			460-202215-05			460-202111-05			460-202111-04			460-202111-07			460-202111-03		
Sample Date				1/30/2020			1/31/2020			2/4/2020			2/3/2020			1/31/2020			1/31/2020			1/31/2020			1/31/2020		
Matrix				Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater		
Remarks	EPA MCL	Screening																				FD of PMW-6					
Parameter	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Dissolved Metals																											
Antimony, Dissolved	6	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Arsenic, Dissolved	10	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Barium, Dissolved	2000	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Beryllium, Dissolved	4	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Cadmium, Dissolved	5	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Calcium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Chromium, Dissolved	100	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Cobalt, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Copper, Dissolved	1300	AL	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Iron, Dissolved	300	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Lead, Dissolved	15	AL	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Magnesium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Manganese, Dissolved	50	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Mercury, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Nickel, Dissolved	100	RE	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Potassium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Selenium, Dissolved	50	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Silver, Dissolved	100	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Sodium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Thallium, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Vanadium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Zinc, Dissolved	5000	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA		
Conventional																											
Alkalinity	NS		mg/L	9.9		5	6.8		5		U	5		U	5	17.8		5		U	5		U	5		U	5
Ammonia	NS		mg/L		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1	0.086	J	0.1		U	0.1		U	0.1
Chemical Oxygen Demand	NS		mg/L		U	10		U	10		U	10		U	10		U	10		U	10		U	10		U	10
Chloride	250	S	mg/L	3.36		0.12	3.5		0.12	2.01		0.12	3.26		0.12	1.26		0.12	3.49		0.12	3.66		0.12	6.81		0.24
Hardness as calcium carbonate	NS		mg/L	30		5	18		5	12		5	8		5	24		5	24		5	26		5	28		5
Nitrate as N	10	P	mg/L	0.6		0.1	0.073	J	0.1		U	0.1		U	0.1		U	0.1	0.37		0.1	0.06	J	0.1	0.11		0.1
Sulfate	250	S	mg/L	14.2		0.6	5		0.6	21.7		0.6	18.3		0.6	6.17		0.6	12.4		0.6	12		0.6	7.73		0.6
Total Dissolved Solids	500	S	mg/L	52		10	28		10	40		10	36		10	26		10	28		10	22		10	28		10

Notes:
Shading exceeds EPA MCL screening criteria
P: EPA Primary MCL
S: EPA Secondary MCL
AL: EPA Action Level
RE: No MCL but recommended level by EPA
TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,
RL: Reporting Limit
Q: Qualifier
U: Compound not detected
J: The concentration is an estimated value.
B: Compound detected in sample and blank
ug/L: micrograms per liter
mg/L: milligram per liter
NS: No Standard
NA: Not analyzed
FI: MS and/or MSD exceeds control limits
* LCS and/or LCSD outside of control limits
H: Sample analyzed beyond method holding time
MCL: Maximum Containment Level

TABLE 10A-1 - UNCONFINED
Event 1: GW Sampling Results Table
January 29 -February 4, 2020

Sample Location				EB-01-012920	EB-02-013020	EB-03-013120	EB-04-020320	EB-05-020420	TB-01-013020	TB-02-013120	TB-03-020320					
Lab ID				460-201978-06	460-201978-14	460-202215-08	460-202215-08	460-202362-12	460-201978-15	460-202236-09	460-202362-14					
Sample Date				1/29/2020	1/30/2020	1/31/2020	2/3/2020	2/4/2020	1/30/2020	1/31/2020	2/4/2020					
Matrix				Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous					
Remarks	EPA MCL	Screening		Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Trip Blank	Trip Blank	Trip Blank					
Parameter	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL				
Volatiles																
1,1,1,2-Tetrachloroethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1			
1,1,1-Trichloroethane	200	P	ug/L	U	1	U	1	U	1	U	1	U	1			
1,1,2,2-Tetrachloroethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1			
1,1,2-Trichloroethane	5	P	ug/L	U	1	U	1	U	1	U	1	U	1			
1,1-Dichloroethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1			
1,1-Dichloroethene	7	P	ug/L	U	1	U	1	U	1	U	1	U	1			
1,2,3-Trichloropropane	NS		ug/L	U	1	U	1	U	1	U	1	U	1			
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L	U	1	U	1	U	1	U	1	U	1			
1,2-Dibromoethane	0.05	P	ug/L	U	1	U	1	U	1	U	1	U	1			
1,2-Dichlorobenzene	600	P	ug/L	U	1	U	1	U	1	U	1	U	1			
1,2-Dichloroethane	5	P	ug/L	U	1	U	1	U	1	U	1	U	1			
1,2-Dichloropropane	5	P	ug/L	U	1	U	1	U	1	U	1	U	1			
1,4-Dichlorobenzene	75	P	ug/L	U	1	U	1	U	1	U	1	U	1			
2-Butanone (MEK)	NS		ug/L	U	5	U	5	U	5	U	5	U	5			
2-Hexanone	NS		ug/L	U	5	U	5	U	5	U	5	U	5			
4-Methyl-2-pentanone (MIBK)	NS		ug/L	U	5	U	5	U	5	U	5	U	5			
Acetone	NS		ug/L	U	5	U	5	U	5	U	5	U	5			
Acrylonitrile	NS		ug/L	U	2	U	2	U	2	U	2	U	2			
Benzene	5	P	ug/L	U	1	U	1	U	1	U	1	U	1			
Bromochloromethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1			
Bromodichloromethane	80	TTHM	ug/L	U	1	U	1	U	1	U	1	U	1			
Bromoform	80	TTHM	ug/L	U	1	U	1	U	1	U	1	U	1			
Bromomethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1			
Carbon disulfide	NS		ug/L	U	1	U	1	U	1	U	1	U	1			
Carbon tetrachloride	5	P	ug/L	U	1	U	1	U	1	U	1	U	1			
Chlorobenzene	100	P	ug/L	U	1	U	1	U	1	U	1	U	1			
Chloroethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1			
Chloroform	80	TTHM	ug/L	U	1	1.1	U	1	U	1	U	1	U	1		
Chloromethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
cis-1,2-Dichloroethene	70	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
cis-1,3-Dichloropropene	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Dibromochloromethane	80	TTHM	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Dibromomethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Ethylbenzene	700	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Iodomethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Methyl tert-butyl ether	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Methylene Chloride	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Styrene	100	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Tetrachloroethene	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Toluene	1000	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
trans-1,2-Dichloroethene	100	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
trans-1,3-Dichloropropene	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
trans-1,4-Dichloro-2-butene	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Trichloroethene	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Trichlorofluoromethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Vinyl acetate	NS		ug/L	U	2	U	2	U	2	U	2	U	2	U	2	
Vinyl chloride	2	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	
Xylenes, Total	10000	P	ug/L	U	2	U	2	U	2	U	2	U	2	U	2	
Total Metals																
Antimony	6	P	ug/L	U	2	U	2	U	2	NA	NA	NA	NA	NA	NA	
Arsenic	10	P	ug/L	U	2	U	2	U	2	NA	NA	NA	NA	NA	NA	
Barium	2000	P	ug/L	U	4	U	4	U	4	NA	NA	NA	NA	NA	NA	
Beryllium	4	P	ug/L	U	0.8	U	0.8	U	0.8	NA	NA	NA	NA	NA	NA	
Cadmium	5	P	ug/L	U	2	U	2	U	2	NA	NA	NA	NA	NA	NA	
Calcium	NS		ug/L	102	J	200	111	J	200	110	J	200	NA	NA	NA	
Chromium	100	P	ug/L	U	4	U	4	U	4	U	4	U	4	NA	NA	
Cobalt	NS		ug/L	U	4	U	4	U	4	U	4	U	4	NA	NA	
Copper	1300	AL	ug/L	U	4	4.3	U	4	U	4	U	4	U	4	NA	NA
Iron	300	S	ug/L	U	120	U	120	U	120	U	120	U	120	NA	NA	NA
Lead	15	AL	ug/L	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	NA	NA	NA
Magnesium	NS		ug/L	U	200	U	200	U	200	U	200	U	200	NA	NA	NA
Manganese	50	S	ug/L	U	8	U	8	U	8	U	8	U	8	NA	NA	NA
Mercury	2	P	ug/L	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	NA	NA	NA
Nickel	100	RE	ug/L	U	4	U	4	U	4	U	4	U	4	NA	NA	NA
Potassium	NS		ug/L	U	200	U	200	U	200	U	200	U	200	NA	NA	NA
Selenium	50	P	ug/L	U	10	U	10	U	10	U	10	U	10	NA	NA	NA
Silver	100	S	ug/L	U	2	U	2	U	2	U	2	U	2	NA	NA	NA
Sodium	NS		ug/L	372	200	487	200	472	200	435	200	382	200	NA	NA	NA
Thallium	2	P	ug/L	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	NA	NA	NA
Vanadium	NS		ug/L	U	4	U	4	U	4	U	4	U	4	NA	NA	NA
Zinc	5000	S	ug/L	U	16	U	16	U	16	U	16	U	16	NA	NA	NA

TABLE 10A-1 - UNCONFINED
Event 1: GW Sampling Results Table
January 29 -February 4, 2020

Sample Location				EB-01-012920	EB-02-013020	EB-03-013120	EB-04-020320	EB-05-020420	TB-01-013020	TB-02-013120	TB-03-020320	
Lab ID				460-201978-06	460-201978-14	460-202236-08	460-202362-08	460-202362-12	460-201978-15	460-202236-09	460-202362-14	
Sample Date				1/29/2020	1/30/2020	1/31/2020	2/3/2020	2/4/2020	1/30/2020	1/31/2020	2/4/2020	
Matrix				Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	
Remarks	EPA MCL	Screening		Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Trip Blank	Trip Blank	Trip Blank	
Parameter	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL
Dissolved Metals												
Antimony, Dissolved	6	P	ug/L	NA			NA			NA		
Arsenic, Dissolved	10	P	ug/L	NA			NA			NA		
Barium, Dissolved	2000	P	ug/L	NA			NA			NA		
Beryllium, Dissolved	4	P	ug/L	NA			NA			NA		
Cadmium, Dissolved	5	P	ug/L	NA			NA			NA		
Calcium, Dissolved	NS		ug/L	NA			NA			NA		
Chromium, Dissolved	100	P	ug/L	NA			NA			NA		
Cobalt, Dissolved	NS		ug/L	NA			NA			NA		
Copper, Dissolved	1300	AL	ug/L	NA			NA			NA		
Iron, Dissolved	300	S	ug/L	NA			NA			NA		
Lead, Dissolved	15	AL	ug/L	NA			NA			NA		
Magnesium, Dissolved	NS		ug/L	NA			NA			NA		
Manganese, Dissolved	50	S	ug/L	NA			NA			NA		
Mercury, Dissolved	2	P	ug/L	NA			NA			NA		
Nickel, Dissolved	100	RE	ug/L	NA			NA			NA		
Potassium, Dissolved	NS		ug/L	NA			NA			NA		
Selenium, Dissolved	50	P	ug/L	NA			NA			NA		
Silver, Dissolved	100	S	ug/L	NA			NA			NA		
Sodium, Dissolved	NS		ug/L	NA			NA			NA		
Thallium, Dissolved	2	P	ug/L	NA			NA			NA		
Vanadium, Dissolved	NS		ug/L	NA			NA			NA		
Zinc, Dissolved	5000	S	ug/L	NA			NA			NA		
Conventional												
Alkalinity	NS		mg/L		U	5		U	5		U	5
Ammonia	NS		mg/L		U	0.1		U	0.1		U	0.1
Chemical Oxygen Demand	NS		mg/L		U	10		U	10		U	10
Chloride	250	S	mg/L		U	0.12		U	0.12		U	0.12
Hardness as calcium carbonate	NS		mg/L		U	5		U	5		U	5
Nitrate as N	10	P	mg/L		U	0.1		U	0.1		U	0.1
Sulfate	250	S	mg/L		U	0.6		U	0.6		U	0.6
Total Dissolved Solids	500	S	mg/L		U	10		U	10	13	10	

Notes:
Shading exceeds EPA MCL screening criteria
P: EPA Primary MCL
S: EPA Secondary MCL
AL: EPA Action Level
RE: No MCL but recommended level by EPA
TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,
RL: Reporting Limit
Q: Qualifier
U: Compound not detected
J: The concentration is an estimated value.
B: Compound detected in sample and blank
ug/L: micrograms per liter
mg/L: milligram per liter
NS: No Standard
NA: Not analyzed
F1: MS and/or MSD exceeds control limits
*: LCS and/or LCSD outside of control limits
H: Sample analyzed beyond method holding time
MCL: Maximum Containment Level

G:\Projects\2018\20183854 - Chesapeake Terrace LF\Work Documents\Phase II Application\Working Documents\Sept 2020 GW Addendum\Table 10A.xlsx

TABLE 10A-2 - CONFINED
Event 1: GW Sampling Results Table
January 29 -February 4, 2020

Sample Location				MW-10			MW-14			MW-28			PMW-11			PMW-12			PMW-13			PMW-13D			PMW-18			PMW-19			PMW-23						
Lab ID				460-202362-11			460-202215-07			460-202362-09			460-201978-05			460-201978-11			460-201978-07			460-201978-08			460-202362-06			460-202362-13			460-202362-02						
Sample Date				2/4/2020			2/3/2020			2/3/2020			1/29/2020			1/30/2020			1/30/2020			1/30/2020			2/3/2020			2/4/2020			2/3/2020						
Matrix				Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater						
Remarks		EPA MCL	Screening																				FD of PMW-13														
Parameter		Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL						
Dissolved Metals																																					
Antimony, Dissolved	6	P	ug/L	NA			NA			NA			NA			U	2			U	2			NA			NA			NA			U	2			
Arsenic, Dissolved	10	P	ug/L	NA			NA			NA			NA			U	2			U	2			NA			NA			NA			U	2			
Barium, Dissolved	2000	P	ug/L	NA			NA			NA			NA			3.1	J	4	21.8		4			NA			NA			NA			3.8	J	4		
Beryllium, Dissolved	4	P	ug/L	NA			NA			NA			NA			U	0.8	0.33	J	0.8			NA			NA			NA			NA		U	0.8		
Cadmium, Dissolved	5	P	ug/L	NA			NA			NA			NA			U	2			U	2			NA			NA			NA			NA		U	2	
Calcium, Dissolved	NS		ug/L	NA			NA			NA			NA			671		200	4140		200			NA			NA			NA			650		200		
Chromium, Dissolved	100	P	ug/L	NA			NA			NA			NA			U	4			U	4			NA			NA			NA			NA		U	4	
Cobalt, Dissolved	NS		ug/L	NA			NA			NA			NA			2.2	J	4		U	4			NA			NA			NA			NA		U	4	
Copper, Dissolved	1300	AL	ug/L	NA			NA			NA			NA			U	4			U	4			NA			NA			NA			NA		U	4	
Iron, Dissolved	300	S	ug/L	NA			NA			NA			NA			U	120		3650		120			NA			NA			NA			NA		U	120	
Lead, Dissolved	15	AL	ug/L	NA			NA			NA			NA			U	1.2			U	1.2			NA			NA			NA			NA		U	1.2	
Magnesium, Dissolved	NS		ug/L	NA			NA			NA			NA			194	J	200	904		200			NA			NA			NA			286		200		
Manganese, Dissolved	50	S	ug/L	NA			NA			NA			NA			4.9	J	8	52.2		8			NA			NA			NA			11		8		
Mercury, Dissolved	2	P	ug/L	NA			NA			NA			NA			U	0.2			U	0.2			NA			NA			NA			NA		U	0.2	
Nickel, Dissolved	100	RE	ug/L	NA			NA			NA			NA			3.5	J	4		U	4			NA			NA			NA			NA		U	4	
Potassium, Dissolved	NS		ug/L	NA			NA			NA			NA			466		200	1370		200			NA			NA			NA			463		200		
Selenium, Dissolved	50	P	ug/L	NA			NA			NA			NA			U	10			U	10			NA			NA			NA			NA		U	10	
Silver, Dissolved	100	S	ug/L	NA			NA			NA			NA			U	2			U	2			NA			NA			NA			NA		U	2	
Sodium, Dissolved	NS		ug/L	NA			NA			NA			NA			1200		200	2180		200			NA			NA			NA			1610		200		
Thallium, Dissolved	2	P	ug/L	NA			NA			NA			NA			U	0.8			U	0.8			NA			NA			NA			NA		U	0.8	
Vanadium, Dissolved	NS		ug/L	NA			NA			NA			NA			U	4			U	4			NA			NA			NA			NA		U	4	
Zinc, Dissolved	5000	S	ug/L	NA			NA			NA			NA			U	16		315		16			NA			NA			NA			NA		U	16	
Conventional																																					
Alkalinity	NS		mg/L	9.1		5	40.8		5	33.4		5		U	5	5.4		5		U	5		U	0.1	0.34		U	0.1		U	5	12.7		5		U	5
Ammonia	NS		mg/L		U	0.1	0.048		J	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1	0.34		U	0.1		U	0.1		U	0.1	U	0.1
Chemical Oxygen Demand	NS		mg/L		U	10	12.3		10	28.8		10		U	10		U	10		U	10		U	10		U	10		U	10		U	10		U	10	
Chloride	250	S	mg/L	3.41		0.12	1.17		0.12	0.85		0.12	1.65		0.12	1		0.12	2.17		0.12	2.19		0.12	1.41		U	0.12	1.88		0.12	2.72		0.12		0.12	
Hardness as calcium carbonate	NS		mg/L	14		5	44		5	34		5	6		5	18		5	8		5	10		5	10		U	5	12		5	18		5		5	
Nitrate as N	10	P	mg/L		U	2			U	0.1		U	0.1	0.14		0.1		U	0.1		U	0.1		U	0.1	0.32		U	0.1		U	0.1	0.39		0.1		0.1
Sulfate	250	S	mg/L	9.62		0.6	6.27		0.6	0.38	J	0.6	4.94		0.6	15.9		0.6	18.6		0.6	17.4		0.6	4.44		0.6	3.59		0.6	3.46		0.6		0.6		
Total Dissolved Solids	500	S	mg/L	42		10	70		10	85		10	18		10	43		10	13		10	22		10	15		10	15		10	34		10	16		10	

Notes:

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,

RL: Reporting Limit

Q: Qualifier

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

ug/L: micrograms per liter

mg/L: milligram per liter

NS: No Standard

NA: Not analyzed

FI: MS and/or MSD exceeds control limits

*: LCS and/or LCS outside of control limits

H: Sample analyzed beyond method holding time

MCL: Maximum Containment Level

TABLE 10A-2 - CONFINED
Event 1: GW Sampling Results Table
January 29 -February 4, 2020

Sample Location			EB-01-012920				EB-02-013020				EB-03-013120				EB-04-020320				EB-05-020420				TB-01-013020				TB-02-013120				TB-03-020320							
Lab ID			460-201978-06				460-201978-14				460-202236-08				460-202362-08				460-202362-12				460-201978-15				460-202236-09				460-202362-14							
Sample Date			1/29/2020				1/30/2020				1/31/2020				2/3/2020				2/4/2020				1/30/2020				1/31/2020				2/4/2020							
Matrix			Aqueous				Aqueous				Aqueous				Aqueous				Aqueous				Aqueous				Aqueous				Aqueous							
Remarks		EPA MCL	Screening				Equipment Blank				Equipment Blank				Equipment Blank				Equipment Blank				Equipment Blank				Trip Blank				Trip Blank				Trip Blank			
Parameter		Criteria	Criteria				Units	Result	Q	RL	Units	Result	Q	RL	Units	Result	Q	RL	Units	Result	Q	RL	Units	Result	Q	RL	Units	Result	Q	RL	Units	Result	Q	RL				
Volatiles																																						
1,1,1,2-Tetrachloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,1,1-Trichloroethane	200	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,1,2,2-Tetrachloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,1,2-Trichloroethane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,1-Dichloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,1-Dichloroethene	7	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,2,3-Trichloropropane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,2-Dibromoethane	0.05	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,2-Dichlorobenzene	600	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,2-Dichloroethane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,2-Dichloropropane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
1,4-Dichlorobenzene	75	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
2-Butanone (MEK)	NS		ug/L	U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5						
2-Hexanone	NS		ug/L	U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5						
4-Methyl-2-pentanone (MIBK)	NS		ug/L	U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5						
Acetone	NS		ug/L	U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5						
Acrylonitrile	NS		ug/L	U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2						
Benzene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Bromochloromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Bromodichloromethane	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Bromoform	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Bromomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Carbon disulfide	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Carbon tetrachloride	5	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Chlorobenzene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Chloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Chloroform	80	TTHM	ug/L	U	1	1.1	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Chloromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
cis-1,2-Dichloroethene	70	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
cis-1,3-Dichloropropene	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Dibromochloromethane	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Dibromomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Ethylbenzene	700	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Iodomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Methyl tert-butyl ether	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Methylene Chloride	5	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Styrene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Tetrachloroethene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Toluene	1000	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
trans-1,2-Dichloroethene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
trans-1,3-Dichloropropene	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
trans-1,4-Dichloro-2-butene	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Trichloroethene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Trichlorofluoromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Vinyl acetate	NS		ug/L	U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2						
Vinyl chloride	2	P	ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1						
Xylenes, Total	10000	P	ug/L	U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2						
Total Metals																																						
Antimony	6	P	ug/L	U	2		U	2		U	2		U	2		U	2		U	2		NA			NA			NA			NA							
Arsenic	10	P	ug/L	U	2		U	2		U	2		U	2		U	2		U	2		NA			NA			NA			NA							
Barium	2000	P	ug/L	U	4		U	4		U	4		U	4		U	4		U	4		NA			NA			NA			NA							
Beryllium	4	P	ug/L	U	0.8		U	0.8		U	0.8		U	0.8		U	0.8		U	0.8		NA			NA			NA			NA							
Cadmium	5	P	ug/L	U	2		U	2		U	2		U	2		U	2		U	2		NA			NA			NA			NA							
Calcium	NS		ug/L	102	J	200	111	J	200	110	J	200	110	J	200	100	J	200	100	J	200	NA			NA			NA			NA							
Chromium	100	P	ug/L	U	4		U	4		U	4		U	4		U	4		U	4		NA			NA			NA			NA							
Cobalt	NS		ug/L	U	4		U	4		U	4		U	4		U	4		U	4		NA			NA			NA			NA							
Copper	1300	AL	ug/L	U	4	4.3	U	4		2.7	J	4		U	4		U	4		U	4	NA			NA			NA			NA							
Iron	300	S	ug/L	U	120		U	120			U	120		U	120		U	120		U	120	NA			NA			NA			NA							
Lead	15	AL	ug/L	U	1.2		U	1.2			U	1.2		U	1.2		U	1.2		U	1.2	NA			NA			NA			NA							
Magnesium	NS																																					

TABLE 10A-2 - CONFINED
Event 1: GW Sampling Results Table
January 29 -February 4, 2020

Sample Location			EB-01-012920				EB-02-013020				EB-03-013120				EB-04-020320				EB-05-020420				TB-01-013020				TB-02-013120				TB-03-020320			
Lab ID			460-201978-06				460-201978-14				460-202236-08				460-2022362-08				460-202362-12				460-201978-15				460-202236-09				460-202362-14			
Sample Date			1/29/2020				1/30/2020				1/31/2020				2/3/2020				2/4/2020				1/30/2020				1/31/2020				2/4/2020			
Matrix			Aqueous				Aqueous				Aqueous				Aqueous				Aqueous				Aqueous				Aqueous				Aqueous			
Remarks		EPA MCL	Equipment Blank				Equipment Blank				Equipment Blank				Equipment Blank				Equipment Blank				Trip Blank				Trip Blank				Trip Blank			
Parameter		Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL				
Dissolved Metals																																		
Antimony, Dissolved	6	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Arsenic, Dissolved	10	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Barium, Dissolved	2000	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Beryllium, Dissolved	4	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Cadmium, Dissolved	5	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Calcium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Chromium, Dissolved	100	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Cobalt, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Copper, Dissolved	1300	AL	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Iron, Dissolved	300	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Lead, Dissolved	15	AL	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Magnesium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Manganese, Dissolved	50	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Mercury, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Nickel, Dissolved	100	RE	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Potassium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Selenium, Dissolved	50	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Silver, Dissolved	100	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Sodium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Thallium, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Vanadium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Zinc, Dissolved	5000	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			NA						
Conventionals																																		
Alkalinity	NS		mg/L	U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5					
Ammonia	NS		mg/L	U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1					
Chemical Oxygen Demand	NS		mg/L	U	10		U	10		U	10		U	10		U	10		U	10		U	10		U	10		U	10					
Chloride	250	S	mg/L	U	0.12		U	0.12		U	0.12		U	0.12		U	0.12		U	0.12		U	0.12		U	0.12		U	0.12					
Hardness as calcium carbonate	NS		mg/L	U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5					
Nitrate as N	10	P	mg/L	U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1					
Sulfate	250	S	mg/L	U	0.6		U	0.6		U	0.6		U	0.6		U	0.6		U	0.6		U	0.6		U	0.6		U	0.6					
Total Dissolved Solids	500	S	mg/L	U	10		U	10		U	10		U	10	13	U	10		U	10		U	10		U	10		U	10					

Notes:

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,

RL: Reporting Limit

Q: Qualifier

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

ug/L: micrograms per liter

mg/L: milligram per liter

NS: No Standard

NA: Not analyzed

F1: MS and/or MSD exceeds control limits

*: LCS and/or LCSD outside of control limits

H: Sample analyzed beyond method holding time

MCL: Maximum Containment Level

G:\Projects\2018\20183854 - Chesapeake Terrace LF\Sec Files\Reports\Phase II Application Add - Sep 20 Rev\Tables\Table 10B.xlsx

TABLE 10B-1 - UNCONFINED
Event 2: GW Sampling Results Table
March 23 - March 28, 2020

Sample Location					MW-4			MW-5			MW-6			MW-15			MW-16			MW-17			MW-18			MW-18-D			MW-19			MW-20			MW-21			MW-22			MW-24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Lab ID					460-205754-06			460-205754-09			460-205754-05			460-205844-02			460-205844-03			460-205844-07			460-205844-05			460-205924-06			460-205924-01			460-205924-02			460-205924-04			460-205973-01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Sample Date					460-206064-07			460-206064-09			460-206064-06			460-206064-13			460-206064-14			460-206064-18			460-206064-16			460-206064-17			460-206064-25			460-206064-20			460-206064-21			460-206064-23			460-206064-28																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Matrix					3/24/2020			3/24/2020			3/24/2020			3/25/2020			3/25/2020			3/25/2020			3/25/2020			3/25/2020			3/26/2020			3/26/2020			3/26/2020			3/26/2020			3/27/2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Remarks					Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Parameter	EPA MCL Criteria	Screening Criteria		Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	

Notes:
Shading exceeds EPA MCL screening criteria
P: EPA Primary MCL
S: EPA Secondary MCL
AL: EPA Action Level
RE: No MCL but recommended level by EPA
TTHM: Total Trihalomethanes includes the sum of
RL: Reporting Limit
Q: Qualifier
U: Compound not detected
J: The concentration is an estimated value.
B: Compound detected in sample and blank
ug/L: micrograms per liter
mg/L: milligram per liter
NS: No Standard
NA: Not analyzed
F1: MS and/or MSD exceeds control limits
+ LCS and/or LCS outside of control limits
H: Sample analyzed beyond method holding time
E: Sample value exceeded upper calibration range
MCL: Maximum Containment Level

TABLE 10B-1 - UNCONFINED
Event 2: GW Sampling Results Table
March 23 - March 28, 2020

Sample Location				MW-24-D			MW-25			MW-27			MW-29			MW-30			PMW-6			PMW-6-D			PMW-28			EB-01-032420			EB-02-032520			EB-03-032620			EB-04-032720			Trip Blank					
Lab ID				460-205973-02			460-205973-03			460-205924-08			460-205754-07			460-205973-05			460-205754-02			460-205754-03			460-205754-04			460-205754-08			460-205844-08			460-205924-03			460-205973-04			460-206064-35					
Sample Date				460-206064-29			460-206064-30			460-206064-27			460-206064-08			460-206064-32			460-206064-02			460-206064-03			460-206064-04			460-206064-05			460-206064-19			460-206064-22			460-206064-31								
Matrix				3/27/2020			3/27/2020			3/26/2020			3/24/2020			3/27/2020			3/24/2020			3/24/2020			3/24/2020			3/24/2020			3/25/2020			3/26/2020			3/27/2020			3/23/2020					
Remarks				Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Aqueous			Aqueous			Aqueous			Aqueous			Aqueous		
Parameter	EPA MCL	Screening		FD of MW-24																		FD of PMW-6						Equipment Blank			Equipment Blank			Equipment Blank			Equipment Blank			Trip Blank					
Criteria	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL						
Dissolved Metals																																													
Antimony, Dissolved	6	P	ug/L	NA			NA			NA			NA			NA			NA			NA			U	2		NA			NA			NA			NA			NA					
Arsenic, Dissolved	10	P	ug/L	NA			NA			NA			NA			NA			NA			NA			U	2		NA			NA			NA			NA			NA					
Barium, Dissolved	2000	P	ug/L	NA			NA			NA			NA			NA			NA			NA			U	4		NA			NA			NA			NA			NA					
Beryllium, Dissolved	4	P	ug/L	NA			NA			NA			NA			NA			NA			NA			U	0.8		NA			NA			NA			NA			NA					
Cadmium, Dissolved	5	P	ug/L	NA			NA			NA			NA			NA			NA			NA			U	2		NA			NA			NA			NA			NA					
Calcium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			2660	200		NA			NA			NA			NA			NA					
Chromium, Dissolved	100	P	ug/L	NA			NA			NA			NA			NA			NA			NA			U	4		NA			NA			NA			NA			NA					
Cobalt, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			U	4		NA			NA			NA			NA			NA					
Copper, Dissolved	1300	AL	ug/L	NA			NA			NA			NA			NA			NA			NA			U	4		NA			NA			NA			NA			NA					
Iron, Dissolved	300	S	ug/L	NA			NA			NA			NA			NA			NA			NA			U	120		NA			NA			NA			NA			NA					
Lead, Dissolved	15	AL	ug/L	NA			NA			NA			NA			NA			NA			NA			U	1.2		NA			NA			NA			NA			NA					
Magnesium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			1770	200		NA			NA			NA			NA			NA					
Manganese, Dissolved	50	S	ug/L	NA			NA			NA			NA			NA			NA			NA			10.9	8		NA			NA			NA			NA			NA					
Mercury, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			NA			NA			U	0.2		NA			NA			NA			NA			NA					
Nickel, Dissolved	100	RE	ug/L	NA			NA			NA			NA			NA			NA			NA			3.1	J	4		NA			NA			NA			NA			NA				
Potassium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			1060	200		NA			NA			NA			NA			NA					
Selenium, Dissolved	50	P	ug/L	NA			NA			NA			NA			NA			NA			NA			U	10		NA			NA			NA			NA			NA					
Silver, Dissolved	100	S	ug/L	NA			NA			NA			NA			NA			NA			NA			U	2		NA			NA			NA			NA			NA					
Sodium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			4020	200		NA			NA			NA			NA			NA					
Thallium, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			NA			NA			U	0.8		NA			NA			NA			NA			NA					
Vanadium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			U	4		NA			NA			NA			NA			NA					
Zinc, Dissolved	5000	S	ug/L	NA			NA			NA			NA			NA			NA			NA			55.9	16		NA			NA			NA			NA			NA					
Conventionals																																													
Alkalinity	NS		mg/L	14.9		5	7.3		5		U	5	11.1		5	5.6		5		U	5		U	5		U	5		U	5		U	5		U	5		U	5	NA					
Ammonia	NS		mg/L		U F1	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1	NA					
Chemical Oxygen Demand	NS		mg/L		U	10		U	10		U F1	10		U	10		U	10		U	10		U	10		U	10		U	10		U	100		U	10		U	10	NA					
Chloride	250	S	mg/L	2.85		0.12	3.33		0.12	1.8	F1	0.12	3.93		0.12	1.67		0.12	3.18		0.12	3.26		0.12	6.64		0.6		U	0.12		U	0.12		U	0.12		U	0.12	NA					
Hardness as calcium carbonate	NS		mg/L	28		5	8		5	6		5	14		5	16		5	18		5	18		5	18		5		U	5		U	10		U	5		U	5	NA					
Nitrate as N	10	P	mg/L	1.02		0.1		U	0.1		U	0.1	475	ER	0.1		U	0.1		U	0.1		U	0.1	0.11		0.1		U	0.1		U	0.1		U	0.1		U	0.1	NA					
Nitrate as N (reanalysis)	10	P	mg/L		NA			NA			NA		0.11	H	0.1		NA			NA			NA		NA		NA		NA		NA			NA			NA		NA	NA					
Sulfate	250	S	mg/L	16.4		0.6	5.51		0.6	20.5	F1	0.6	15		6	10.7		0.6	13.8		0.6	14.1		0.6	15		0.6		U	0.6		U	0.6		U	0.6		U	0.6	NA					
Total Dissolved Solids	500	S	mg/L	60		10	59		10	40		10	54		10	65		10	41		10	42		10	49		10		U	10		U	10	28		U	10	24		10	NA				

Notes:

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of

RL: Reporting Limit

Q: Qualifier

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

ug/L: micrograms per liter

mg/L: milligram per liter

NS: No Standard

NA: Not analyzed

F1: MS and/or MSD exceeds control limits

*: LCS and/or LCSD outside of control limits

H: Sample analyzed beyond method holding time

E: Sample value exceeded upper calibration range

MCL: Maximum Containment Level

R: The original Nitrate data for MW-29 was rejected (R) by Advanced GeoServices. The initial undiluted analysis was reported. The laboratory confirmed after analysis and reporting that the sample bottle had a pH <2 resulting in a high Nitrate concentration. The sample was reanalyzed by the laboratory from a separate sample container.

Event 2: GW Sampling Results Table
March 23 - March 28, 2020

Sample Location				MW-10			MW-14			MW-28			PMW-11			PMW-12			PMW-13			PMW-18			PMW-19			PMW-23		
Lab ID				460-205754-01			460-205754-10			460-205973-07			460-205924-07			460-205844-04			460-205844-01			460-205754-11			460-205973-06			460-205924-05		
Sample Date				460-206064-10			460-206064-10			460-206064-34			460-206064-26			460-206064-15			460-206064-12			460-206064-11			460-206064-33			460-206064-24		
Matrix				3/23/2020			3/24/2020			3/27/2020			3/26/2020			3/25/2020			3/25/2020			3/25/2020			3/27/2020			3/26/2020		
Remarks				Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater		
Parameter	EPA MCL Criteria	Screening Criteria		Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL		
Volatiles																														
1,1,1,2-Tetrachloroethane	NS			ug/L		U	1	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1,1-Trichloroethane	200	P		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1,2,2-Tetrachloroethane	NS			ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1,2-Trichloroethane	5	P		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1-Dichloroethane	NS			ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1-Dichloroethene	7	P		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2,3-Trichloropropane	NS			ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2-Dibromo-3-Chloropropane	0.2	P		ug/L	U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
1,2-Dibromooethane	0.05	P		ug/L	U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
1,2-Dichlorobenzene	600	P		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2-Dichloroethane	5	P		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2-Dichloropropane	5	P		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,4-Dichlorobenzene	75	P		ug/L	U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
2-Butanone (MEK)	NS			ug/L	U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
2-Hexanone	NS			ug/L	U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
4-Methyl-2-pentanone (MIBK)	NS			ug/L	U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
Acetone	NS			ug/L	U	5		U	5		U	5		U	5															

TABLE 10B-2 - CONFINED
Event 2: GW Sampling Results Table
March 23 - March 28, 2020

Sample Location				MW-10			MW-14			MW-28			PMW-11			PMW-12			PMW-13			PMW-18			PMW-19			PMW-23						
Lab ID				460-205754-01			460-205754-10			460-205973-07			460-205924-07			460-205844-04			460-205844-01			460-205754-11			460-205973-06			460-205924-05						
Sample Date				460-206064-01			460-206064-10			460-206064-34			460-206064-26			460-206064-15			460-206064-12			460-206064-11			460-206064-33			460-206064-24						
Matrix				3/23/2020			3/24/2020			3/27/2020			3/26/2020			3/25/2020			3/25/2020			3/24/2020			3/26/2020			3/26/2020						
Remarks	EPA MCL	Screening		Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater						
Parameter	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL				
Dissolved Metals																																		
Antimony, Dissolved	6	P	ug/L			NA			NA				U	2		U	2		U	2		NA			U	2		NA			U	2		
Arsenic, Dissolved	10	P	ug/L			NA			NA				U	2		U	2		U	2		NA			U	2		NA			U	2		
Barium, Dissolved	2000	P	ug/L			NA			NA			44.6			4.3		4		21.3			NA			7.9		4		NA		4.6		4	
Beryllium, Dissolved	4	P	ug/L			NA			NA				U	0.8		U	0.8		U	0.8		NA			0.33	J	0.8		NA			U	0.8	
Cadmium, Dissolved	5	P	ug/L			NA			NA				U	2		U	2		U	2		NA			U	2		NA			U	2		
Calcium, Dissolved	NS		ug/L			NA			NA			8490		200	523		200	3230		200		NA		748		200		NA		742		200		
Chromium, Dissolved	100	P	ug/L			NA			NA				U	4		U	4		U	4		NA			U	4		NA			U	4		
Cobalt, Dissolved	NS		ug/L			NA			NA				U	4	2.4	J	4		U	4		NA		3.6	J	4		NA			U	4		
Copper, Dissolved	1300	AL	ug/L			NA			NA				U	4	2.2	J	4		U	4		NA		6		4		NA			U	4		
Iron, Dissolved	300	S	ug/L			NA			NA			15100		120		U	120	6500		120		NA			U	120		NA			U	120		
Lead, Dissolved	15	AL	ug/L			NA			NA				U	1.2		U	1.2		U	1.2		NA			U	1.2		NA			U	1.2		
Magnesium, Dissolved	NS		ug/L			NA			NA			1960		200	238		200	1400		200		NA		560		200		NA		354		200		
Manganese, Dissolved	50	S	ug/L			NA			NA			97.6		8	5.7	J	8	68.4		8		NA		11.8		8		NA		16.1		8		
Mercury, Dissolved	2	P	ug/L			NA			NA				U	0.2		U	0.2		U	0.2		NA			U	0.2		NA			U	0.2		
Nickel, Dissolved	100	RE	ug/L			NA			NA				U	4	3.8	J	4		U	4		NA		5.3		4		NA		2.7	J	4		
Potassium, Dissolved	NS		ug/L			NA			NA			1600		200	548		200	1180		200		NA		770		200		NA		532		200		
Selenium, Dissolved	50	P	ug/L			NA			NA				U	10		U	10		U	10		NA			U	10		NA			U	10		
Silver, Dissolved	100	S	ug/L			NA			NA				U	2		U	2		U	2		NA			U	2		NA			U	2		
Sodium, Dissolved	NS		ug/L			NA			NA			3230		200	1430		200	1660		200		NA		1280		200		NA		1800		200		
Thallium, Dissolved	2	P	ug/L			NA			NA				U	0.8		U	0.8		U	0.8		NA			U	0.8		NA			U	0.8		
Vanadium, Dissolved	NS		ug/L			NA			NA			4		4		U	4		U	4		NA			U	4		NA			U	4		
Zinc, Dissolved	5000	S	ug/L			NA			NA				U	16		U	16	42.1		16		NA		12.1	J	16		NA			U	16		
Conventionals																																		
Alkalinity	NS		mg/L	8.5		5	50.3		5	34.5		5		U	5		U	5		U	5		U	5		U	5	11.1		5		U	5	
Ammonia	NS		mg/L			U F1	0.1		U	0.1	0.14		0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1
Chemical Oxygen Demand	NS		mg/L			U	10	6.3	J	10	20.5		10		U	10		U	10		U	10		U	10		U	10		U	10		U	10
Chloride	250	S	mg/L	2.52	F1	0.12	0.98		0.12	0.82		0.12	1.72		0.12	0.95		0.12	2.17		0.12	1.22		0.12	1.72		0.12	2.62		0.12		0.12		
Hardness as calcium carbonate	NS		mg/L	18			5	50		5	26		5		U	5	14		5		U	5	6		5	6		5				U	10	
Nitrate as N	10	P	mg/L			U	0.1	0.094	J	0.1		U	0.1	0.17		0.1		U	0.1		U	0.1	0.29		0.1		U	0.1	0.35			0.1		
Nitrate as N (reanalysis)	10	P	mg/L			NA			NA			NA			NA		NA		NA		NA		NA		NA		NA		NA			NA		
Sulfate	250	S	mg/L	13.3	F1	0.6	9.75		0.6	1.88		0.6	5.88		0.6	17.7		0.6	26.4		0.6	9.54		0.6	2.47		0.6	2.91		0.6		0.6		
Total Dissolved Solids	500	S	mg/L	37			10	88		10	92		10	37		10	56		10	40		10	20		10	40		10	37			10		

Notes:

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,

RL: Reporting Limit

Q: Qualifier

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

ug/L: micrograms per liter

mg/L: milligram per liter

NS: No Standard

NA: Not analyzed

F1: MS and/or MSD exceeds control limits

*: LCS and/or LCSD outside of control limits

H: Sample analyzed beyond method holding time

MCL: Maximum Containment Level

TABLE 10B-2 - CONFINED
Event 2: GW Sampling Results Table
March 23 - March 28, 2020

Sample Location				EB-01-032420	EB-02-032520	EB-03-032620	EB-04-032720	Trip Blank										
Lab ID				460-205754-08	460-205844-08	460-205924-03	460-205973-04	460-206064-35										
Sample Date				460-206064-05	460-206064-19	460-206064-22	460-206064-31											
Matrix				3/24/2020	3/25/2020	3/26/2020	3/27/2020	3/23/2020										
Remarks				Aqueous	Aqueous	Aqueous	Aqueous	Aqueous										
Parameter	EPA MCL Criteria	Screening Criteria	Units	Equipment Blank Result	Equipment Blank Q	Equipment Blank RL	Equipment Blank Result	Equipment Blank Q	Equipment Blank RL	Equipment Blank Result	Equipment Blank Q	Equipment Blank RL	Equipment Blank Result	Equipment Blank Q	Equipment Blank RL	Equipment Blank Result	Equipment Blank Q	Equipment Blank RL
Volatiles																		
1,1,1,2-Tetrachloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
1,1,1-Trichloroethane	200	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,1,2,2-Tetrachloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
1,1,2-Trichloroethane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,1-Dichloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
1,1-Dichloroethene	7	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,2,3-Trichloropropane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
1,2-Dibromoethane	0.05	P	ug/L		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
1,2-Dichlorobenzene	600	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,2-Dichloroethane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,2-Dichloropropane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,4-Dichlorobenzene	75	P	ug/L		U	1		U	1		U	1		U	1		U	1
2-Butanone (MEK)	NS		ug/L		U	5		U	5		U	5		U	5		U	5
2-Hexanone	NS		ug/L		U	5		U	5		U	5		U	5		U	5
4-Methyl-2-pentanone (MIBK)	NS		ug/L		U	5		U	5		U	5		U	5		U	5
Acetone	NS		ug/L		U	5		U	5		U	5		U	5		U	5
Acrylonitrile	NS		ug/L		U	2		U	2		U	2		U	2		U	2
Benzene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
Bromochloromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Bromodichloromethane	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1
Bromoform	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1
Bromomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Carbon disulfide	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Carbon tetrachloride	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
Chlorobenzene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1
Chloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Chloroform	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1
Chloromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
cis-1,2-Dichloroethene	70	P	ug/L		U	1		U	1		U	1		U	1		U	1
cis-1,3-Dichloropropene	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Dibromochloromethane	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1
Dibromomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Ethylbenzene	700	P	ug/L		U	1		U	1		U	1		U	1		U	1
Iodomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Methyl tert-butyl ether	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Methylene Chloride	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
Styrene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1
Tetrachloroethene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
Toluene	1000	P	ug/L		U	1		U	1		U	1		U	1		U	1
trans-1,2-Dichloroethene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1
trans-1,3-Dichloropropene	NS		ug/L		U	1		U	1		U	1		U	1		U	1
trans-1,4-Dichloro-2-butene	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Trichloroethene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
Trichlorofluoromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Vinyl acetate	NS		ug/L		U	2		U	2		U	2		U	2		U	2
Vinyl chloride	2	P	ug/L		U	1		U	1		U	1		U	1		U	1
Xylenes, Total	10000	P	ug/L		U	2		U	2		U	2		U	2		U	2
Total Metals																		
Antimony	6	P	ug/L		U	2		U	2		U	2		U	2		NA	
Arsenic	10	P	ug/L		U	2		U	2		U	2		U	2		NA	
Barium	2000	P	ug/L		U	4		U	4		U	4		U	4		NA	
Beryllium	4	P	ug/L		U	0.8		U	0.8		U	0.8		U	0.8		NA	
Cadmium	5	P	ug/L		U	2		U	2		U	2		U	2		NA	
Calcium	NS		ug/L	117	J	200		99.3	J	200		U	200		106	J	200	NA
Chromium	100	P	ug/L		U	4		U	4		U	4		U	4		NA	
Cobalt	NS		ug/L		U	4		U	4		U	4		U	4		NA	
Copper	1300	AL	ug/L		U	4		U	4		U	4		U	4		NA	
Iron	300	S	ug/L		U	120		U	120	81.9	J	120		U	120		NA	
Lead	15	AL	ug/L		U	1.2		U	1.2		U	1.2		U	1.2		NA	
Magnesium	NS		ug/L		U	200		U	200		U	200		U	200		NA	
Manganese	50	S	ug/L		U	8		U	8		U	8		U	8		NA	
Mercury	2	P	ug/L		U	0.2		U	0.2		U	0.2		U	0.2		NA	
Nickel	100	RE	ug/L		U	4		U	4		U	4		U	4		NA	
Potassium	NS		ug/L		U	200		U	200		U	200		U	200		NA	
Selenium	50	P	ug/L		U	10		U	10		U	10		U	10		NA	
Silver	100	S	ug/L		U	2		U	2		U	2		U	2		NA	
Sodium	NS		ug/L	382	200		412	200		424	200		386	200		NA		
Thallium	2	P	ug/L		U	0.8		U	0.8		U	0.8		U	0.8		NA	
Vanadium	NS		ug/L		U	4		U	4		U	4		U	4		NA	
Zinc	5000	S	ug/L		U	16		U	16		U	16		U	16		NA	

TABLE 10B-2 - CONFINED
Event 2: GW Sampling Results Table
March 23 - March 28, 2020

Sample Location				EB-01-032420	EB-02-032520	EB-03-032620	EB-04-032720	Trip Blank				
Lab ID				460-205754-08	460-205844-08	460-205924-03	460-205973-04	460-206064-35				
Sample Date				460-206064-05	460-206064-19	460-206064-22	460-206064-31					
Matrix				3/24/2020	3/25/2020	3/26/2020	3/27/2020	3/23/2020				
Remarks				Aqueous	Aqueous	Aqueous	Aqueous	Aqueous				
Parameter	EPA MCL Criteria	Screening Criteria	Units	Equipment Blank Result	Equipment Blank Q	Equipment Blank RL	Equipment Blank Result	Equipment Blank Q	Equipment Blank RL	Trip Blank Result	Trip Blank Q	Trip Blank RL
Dissolved Metals												
Antimony, Dissolved	6	P	ug/L	NA		NA		NA		NA		NA
Arsenic, Dissolved	10	P	ug/L	NA		NA		NA		NA		NA
Barium, Dissolved	2000	P	ug/L	NA		NA		NA		NA		NA
Beryllium, Dissolved	4	P	ug/L	NA		NA		NA		NA		NA
Cadmium, Dissolved	5	P	ug/L	NA		NA		NA		NA		NA
Calcium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA
Chromium, Dissolved	100	P	ug/L	NA		NA		NA		NA		NA
Cobalt, Dissolved	NS		ug/L	NA		NA		NA		NA		NA
Copper, Dissolved	1300	AL	ug/L	NA		NA		NA		NA		NA
Iron, Dissolved	300	S	ug/L	NA		NA		NA		NA		NA
Lead, Dissolved	15	AL	ug/L	NA		NA		NA		NA		NA
Magnesium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA
Manganese, Dissolved	50	S	ug/L	NA		NA		NA		NA		NA
Mercury, Dissolved	2	P	ug/L	NA		NA		NA		NA		NA
Nickel, Dissolved	100	RE	ug/L	NA		NA		NA		NA		NA
Potassium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA
Selenium, Dissolved	50	P	ug/L	NA		NA		NA		NA		NA
Silver, Dissolved	100	S	ug/L	NA		NA		NA		NA		NA
Sodium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA
Thallium, Dissolved	2	P	ug/L	NA		NA		NA		NA		NA
Vanadium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA
Zinc, Dissolved	5000	S	ug/L	NA		NA		NA		NA		NA
Conventional												
Alkalinity	NS		mg/L	U	5		U	5		U	5	NA
Ammonia	NS		mg/L	U	0.1		U	0.1		U	0.1	NA
Chemical Oxygen Demand	NS		mg/L	U	10		U	100		U	10	NA
Chloride	250	S	mg/L	U	0.12		U	0.12		U	0.12	NA
Hardness as calcium carbonate	NS		mg/L	U	5		U	10		U	5	NA
Nitrate as N	10	P	mg/L	U	0.1		U	0.1		U	0.1	NA
Nitrate as N (reanalysis)	10	P	mg/L	NA		NA		NA		NA		NA
Sulfate	250	S	mg/L	U	0.6		U	0.6		U	0.6	NA
Total Dissolved Solids	500	S	mg/L	U	10		U	10	28	U	10	24

Notes:

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,

RL: Reporting Limit

Q: Qualifier

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

ug/L: micrograms per liter

mg/L: milligram per liter

NS: No Standard

NA: Not analyzed

FI: MS and/or MSD exceeds control limits

*: LCS and/or LCSD outside of control limits

H: Sample analyzed beyond method holding time

MCL: Maximum Containment Level

TABLE 10C-1 - UNCONFINED
Event 3: GW Sampling Results Table
May 18 - May 22, 2020

Sample Location					MW-4	MW-5	MW-6	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-24	MW-25	
Lab ID					460-209451-05	460-209451-04	460-209657-18	460-209329-02	460-209451-01	460-209329-06	460-209192-02	460-209192-01	460-209270-07	460-209270-06	460-209270-01	460-209516-04	460-209270-04	
Sample Date					460-209657-26	460-209657-25	460-209657-18		460-209657-22	460-209657-19	460-209329-10	460-209329-09	460-209329-11	460-209329-18	460-209329-13	460-209657-34	460-209329-16	
Matrix					Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Remarks	EPA MCL	Screening																
Parameter	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatiles																		
1,1,1,2-Tetrachloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,1-Trichloroethane	200	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,2,2-Tetrachloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,2-Trichloroethane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,1-Dichloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1-Dichloroethene	7	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2,3-Trichloropropane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L	U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	
1,2-Dibromoethane	0.05	P	ug/L	U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	
1,2-Dichlorobenzene	600	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dichloroethane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dichloropropane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,4-Dichlorobenzene	75	P	ug/L	U	1		U	1		U	1		U	1		U	1	
2-Butanone (MEK)	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
2-Hexanone	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
4-Methyl-2-pentanone (MIBK)	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
Acetone	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
Acrylonitrile	NS		ug/L	U	2		U	2		U	2		U	2		U	2	
Benzene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromochloromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Bromodichloromethane	80	THHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromoform	80	THHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Carbon disulfide	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Carbon tetrachloride	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Chlorobenzene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Chloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Chloroform	80	THHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Chloromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
cis-1,2-Dichloroethene	70	P	ug/L	U	1		U	1		U	1		U	1		U	1	
cis-1,3-Dichloropropene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Dibromochloromethane	80	THHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Dibromomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Ethylbenzene	700	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Iodomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Methyl tert-butyl ether	NS		ug/L	1.6	1	0.58	J	1		U	1		U	1		U	1	
Methylene Chloride	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Styrene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Tetrachloroethene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Toluene	1000	P	ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,2-Dichloroethene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,3-Dichloropropene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,4-Dichloro-2-butene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Trichloroethene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Trichlorofluoromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Vinyl acetate	NS		ug/L	U	2		U	2		U	2		U	2		U	2	
Vinyl chloride	2	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Xylenes, Total	10000	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Total Metals																		
Antimony	6	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Arsenic	10	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Barium	2000	P	ug/L	39	4	8.6	4	22.4	4	131	4	26.4	4	106	4	43	15.3	4
Beryllium	4	P	ug/L	U	0.8		U	0.8		U	0.8		U	0.8		U	0.8	
Cadmium	5	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Calcium	NS		ug/L	1890	200	2020	200	2420	200	4680	200	1750	200	3620	200	837	200	750
Chromium	NS	P	ug/L	U	4		U	4		U	4		U	4		U	4	
Cobalt	1300	AL	ug/L	3.6	J	4	1.6	J	4	22.3	4	4.8	4	33.9	4	18.7	4	2.5
Copper	300	S	ug/L	53.3	J	120	85	J	120	1430	120	53.6	J	120	193	120	1050	120
Iron	15	AL	ug/L	2.3	J	4	U	4	4	7.8	4	5.9	4	2.3	J	4	6.5	4
Lead	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Magnesium	NS		ug/L	2710	200	1480	200	1900	200	1430	200	1100	200	706	200	6420	200	1180
Manganese	50	S	ug/L	16.2	8	12	8	8.3	8	112	8	55.9	8	66.9	8	13.1	8	182
Mercury	2	P	ug/L	U	0.2		U	0.2		U	0.2		U	0.2		U	0.2	
Nickel	100	RE	ug/L	6.4	4	4.1	4	U	4	3.7	J	4	22.1	4	8.9	4	3	J
Potassium	NS		ug/L	965	200	771	200	1080	200	1670	200	616	200	226	200	1580	200	518
Selenium	50	P	ug/L	U	10		U	10		U	10		U	10		U	10	
Silver	100	S	ug/L	U	2		U	2		U	2		U	2		U	2	
Sodium	NS		ug/L	3490	200	4510	200	2620	200	1460	200	1800	200	2520	200	2180	200	1810
Thallium	2	P	ug/L	U	0.8		U	0.8		U	0.8		U	0.8		U	0.8	
Vanadium	NS		ug/L	U	4		U	4		U	4		U	4		U	4	
Zinc	5000	S	ug/L	U	16		U	16		U	16		U	16		U	16	

TABLE 10C-1 - UNCONFINED
Event 3: GW Sampling Results Table
May 18 - May 22, 2020

Sample Location				MW-4			MW-5			MW-6			MW-15			MW-16			MW-17			MW-18			MW-19			MW-20			MW-21			MW-22			MW-24			MW-25		
Lab ID				460-209451-05			460-209451-04			460-209329-05			460-209329-02			460-209451-01			460-209329-06			460-209192-02			460-209192-01			460-209270-07			460-209270-06			460-209270-01			460-209516-04			460-209270-04		
				460-209657-26			460-209657-25			460-209657-18						460-209657-22			460-209657-19			460-209329-10			460-209329-09			460-209329-19			460-209329-18			460-209329-13			460-209657-34			460-209329-16		
Sample Date				5/21/2020			5/21/2020			5/20/2020			5/20/2020			5/21/2020			5/20/2020			5/18/2020			5/18/2020			5/19/2020			5/19/2020			5/19/2020			5/22/2020			5/19/2020		
Matrix				Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater		
Remarks																																										
Parameter	EPA MCL Criteria	Screening Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Dissolved Metals																																										
Antimony, Dissolved	6	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			U	2		NA			NA			NA			NA		
Arsenic, Dissolved	10	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			U	2		NA			NA			NA			NA		
Barium, Dissolved	2000	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA				4		NA			NA			NA			NA		
Beryllium, Dissolved	4	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			1.8	0.8		NA			NA			NA			NA		
Cadmium, Dissolved	5	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			U	2		NA			NA			NA			NA		
Calcium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			724	200		NA			NA			NA			NA		
Chromium, Dissolved	100	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			U	4		NA			NA			NA			NA		
Cobalt, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			20.1	4		NA			NA			NA			NA		
Copper, Dissolved	1300	AL	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			6.7	4		NA			NA			NA			NA		
Iron, Dissolved	300	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			U	120		NA			NA			NA			NA		
Lead, Dissolved	15	AL	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			0.66	1.2		NA			NA			NA			NA		
Magnesium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			629	200		NA			NA			NA			NA		
Manganese, Dissolved	50	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			94.8	8		NA			NA			NA			NA		
Mercury, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			U	0.2		NA			NA			NA			NA		
Nickel, Dissolved	100	RE	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			11	4		NA			NA			NA			NA		
Potassium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			529	200		NA			NA			NA			NA		
Selenium, Dissolved	50	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			U	10		NA			NA			NA			NA		
Silver, Dissolved	100	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			U	2		NA			NA			NA			NA		
Sodium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			1160	200		NA			NA			NA			NA		
Thallium, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			U	0.8		NA			NA			NA			NA		
Vanadium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			NA			NA			NA			U	4		NA			NA			NA			NA		
Zinc, Dissolved	5000	S	ug/L	NA			NA			NA			NA			NA			NA			NA			NA			48.9	16		NA			NA			NA			NA		
Conventional																																										
Alkalinity	NS		mg/L		U	5		U	5		U	5	10.7		5		U	5		U	5	12.6		5		U	5		U	5		U	5	7.2		5	12.3		5	6.4		5
Ammonia	NS		mg/L		U	0.1		U	0.1		U	0.1	0.22		0.1		U	F1	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U
Chemical Oxygen Demand	NS		mg/L		U	10		U	10		U	10	29.1		10		U	10	15.6		10		U	10	6.4	J	10		U	10		U	10		U	10		U	10		U	10
Chloride	250	S	mg/L	5.15		0.24	5.87		0.12	4.7		0.12	2.56		0.12	2.73	F1	0.12	1.45		0.12	2.25		0.12	2.92		0.12	2.4		0.12	3.33		0.12	2.02		0.12	2.34		0.12	3.23		0.12
Hardness as calcium carbonate	NS		mg/L	14		5	12		5	6		5	20		5	8		5	34		5	34		5	12		5	8		5	16		5	18		5	24		5	14		5
Nitrate as N	10	P	mg/L	0.23	H	0.1	0.44	H	0.1	0.29		0.1	0.17		0.1	U	H	0.1	0.12		0.1	1.33		0.1	0.14		0.1	0.12		0.1	2.18		0.1	0.17		0.1	0.55		0.1	0.16		0.1
Sulfate	250	S	mg/L	9.65		0.6	5.44		0.6	8.98		0.6	8.27		0.6	13.5	F1	0.6	9.72		0.6	19.6		0.6	3.22		0.6	22.4		0.6	21.4		0.6	12.7		0.6	11.1		0.6	4.82		0.6
Total Dissolved Solids	500	S	mg/L	75		10	51		10	60		10	97		10	39		10	85		10	57		10	39		10	35		10	44		10	49		10	75		10	27		10

Notes:
Shading exceeds EPA MCL screening criteria
P: EPA Primary MCL
S: EPA Secondary MCL
AL: EPA Action Level
RE: No MCL but recommended level by EPA
TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,
RL: Reporting Limit
Q: Qualifier
U: Compound not detected
J: The concentration is an estimated value.
B: Compound detected in sample and blank
ug/L: micrograms per liter
mg/L: milligram per liter
NS: No Standard
NA: Not analyzed
F1: MS and/or MSD exceeds control limits
*: LCS and/or LCS outside of control limits
H: Sample analyzed beyond method holding time
MCL: Maximum Containment Level

TABLE 10C-1 - UNCONFINED
Event 3: GW Sampling Results Table
May 18 - May 22, 2020

Sample Location				MW-25D	MW-27	MW-29	MW-30	PMW-6	PMW-28	EB-01-051820	EB-02-051920	EB-03-052020	EB-04-052120	EB-05-052220	TB-01-051820	TB-02-051820														
Lab ID				460-209270-05	460-209516-03	460-209657-29	460-209270-03	460-209329-09	460-209329-04	460-209192-04	460-209270-08	460-209329-08	460-209451-03	460-209516-05	460-209329-21	460-209657-36														
Sample Date				460-209329-17	460-209657-33		460-209329-15	460-209329-22	460-209657-17	460-209329-12	460-209329-20	460-209657-21	460-209657-24	460-209657-35																
Matrix				460-209657-09				460-209657-13		460-209657-04	460-209657-12																			
Remarks				5/19/2020	5/22/2020	5/21/2020	5/19/2020	5/19/2020	5/20/2020	5/18/2020	5/19/2020	5/20/2020	5/21/2020	5/22/2020	5/18/2020	5/18/2020														
Parameter	EPA MCL Criteria	Screening Criteria	Units	FD of MW-25	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Trip Blank	Trip Blank														
Parameter	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL												
Volatiles																														
1,1,1,2-Tetrachloroethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
1,1,1-Trichloroethane	200	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
1,1,2,2-Tetrachloroethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
1,1,2-Trichloroethane	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
1,1-Dichloroethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
1,1-Dichloroethene	7	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
1,2,3-Trichloropropane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02													
1,2-Dibromomethane	0.05	P	ug/L	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02													
1,2-Dichlorobenzene	600	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
1,2-Dichloroethane	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
1,2-Dichloropropane	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
1,4-Dichlorobenzene	75	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
2-Butanone (MEK)	NS		ug/L	U	5	U	5	U	5	U	5	U	5	U	5	U	5													
2-Hexanone	NS		ug/L	U	5	U	5	U	5	U	5	U	5	U	5	U	5													
4-Methyl-2-pentanone (MIBK)	NS		ug/L	U	5	U	5	U	5	U	5	U	5	U	5	U	5													
Acetone	NS		ug/L	U	5	U	5	U	5	U	5	U	5	U	5	U	5													
Acrylonitrile	NS		ug/L	U	2	U	2	U	2	U	2	U	2	U	2	U	2													
Benzene	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Bromochloromethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Bromodichloromethane	80	TTHM	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Bromoform	80	TTHM	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Bromomethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Carbon disulfide	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Carbon tetrachloride	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Chlorobenzene	100	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Chloroethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Chloroform	80	TTHM	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Chloromethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
cis-1,2-Dichloroethene	70	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
cis-1,3-Dichloropropene	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Dibromochloromethane	80	TTHM	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Dibromomethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Ethylbenzene	700	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Iodomethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Methyl tert-butyl ether	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Methylene Chloride	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Styrene	100	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Tetrachloroethene	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Toluene	1000	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
trans-1,2-Dichloroethene	100	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
trans-1,3-Dichloropropene	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
trans-1,4-Dichloro-2-butene	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Trichloroethene	5	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Trichlorofluoromethane	NS		ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Vinyl acetate	NS		ug/L	U	2	U	2	U	2	U	2	U	2	U	2	U	2													
Vinyl chloride	2	P	ug/L	U	1	U	1	U	1	U	1	U	1	U	1	U	1													
Xylenes, Total	10000	P	ug/L	U	2	U	2	U	2	U	2	U	2	U	2	U	2													
Total Metals																														
Antimony	6	P	ug/L	U	2	0.4	J	2	U	2	U	2	U	2	NA	NA														
Arsenic	10	P	ug/L	U	2	U	2	U	2	U	2	U	2	U	2	NA	NA													
Barium	2000	P	ug/L	21.9	4	42.3	4	20.7	4	23.9	4	29.6	4	40.9	4	NA	NA													
Beryllium	4	P	ug/L	U	0.8	U	0.8	0.76	J	0.8	U	0.8	U	0.8	U	0.8	NA	NA												
Cadmium	5	P	ug/L	U	2	U	2	U	2	U	2	U	2	U	2	NA	NA													
Calcium	NS		ug/L	2480	200	1740	200	2950	200	3510	200	2390	200	1790	200	111	J	200												
Chromium	100	P	ug/L	U	4	U	4	U	4	U	4	U	4	U	4	U	4	NA	NA											
Cobalt	NS		ug/L	U	4	U	4	6	U	4	U	4	U	4	U	4	U	4	NA	NA										
Copper	1300	AL	ug/L	U	4	4.2	4	4	U	4	2.7	J	4	5.7	U	4	U	4	NA	NA										
Iron	300	S	ug/L	146	120	3000	120	597	120	1780	120	138	120	194	120	120	120	120	NA	NA										
Lead	15	AL	ug/L	0.56	J	1.2	U	1.2	U	1.2	1.1	J	1.2	U	1.2	U	1.2	U	1.2	NA	NA									
Magnesium	NS		ug/L	1370	200	960	200	786	200	2630	200	1800	200	1470	200	200	200	200	NA	NA										
Manganese	50	S	ug/L	11.7	8	71.9	8	22	8	28.4	8	17.7	8	19.6	8	U	8	U	8	NA	NA									
Mercury	2	P	ug/L	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	NA	NA									
Nickel	100	RE	ug/L	2.9	J	4	5.1	4	10	4	U	4	U	4	U	4	U	4	U	4	NA	NA								
Potassium	NS		ug/L	1140	200	814	200	1110	200	1510	200	852	200	1040	200	200	200	200	200	NA	NA									
Selenium	50	P	ug/L	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	NA	NA									
Silver	100	S	ug/L	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	NA	NA									
Sodium	NS		ug/L	2400	200	1920	200	4710	200	2760	200	2800	200	4270	200	364	200	382	200	319	200	414	200	407	200	NA	NA			
Thallium	2	P	ug/L	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	NA	NA	
Vanadium	NS		ug/L	U	4	U	4	U	4	2.6	J	4	U	4	U	4	U	4	U	4	U	4	U	4	U	4	U	4	NA	NA
Zinc	5000	S	ug/L	U	16	17.7	16	103	16	42.8	16	16	U	16	26.8	16	U	16	U	16	U	16	U	16	U	16	U	16	NA	NA

TABLE 10C-1 - UNCONFINED
Event 3: GW Sampling Results Table
May 18 - May 22, 2020

Sample Location				MW-25D	MW-27	MW-29	MW-30	PMW-6	PMW-28	EB-01-051820	EB-02-051920	EB-03-052020	EB-04-052120	EB-05-052220	TB-01-051820	TB-02-051820																					
Lab ID				460-209270-05	460-209516-03	460-209657-29	460-209270-03	460-209270-09	460-209329-04	460-209192-04	460-209270-08	460-209329-08	460-209451-03	460-209516-05	460-209329-21	460-209657-36																					
Sample Date				460-209329-17	460-209657-33		460-209329-15	460-209329-22	460-209657-17	460-209329-12	460-209329-20	460-209657-21	460-209657-24	460-209657-35																							
Matrix				460-209657-09				460-209657-13		460-209657-04	460-209657-12																										
Remarks	EPA MCL	Screening		5/19/2020	5/22/2020	5/21/2020	5/19/2020	5/19/2020	5/20/2020	5/18/2020	5/19/2020	5/20/2020	5/21/2020	5/22/2020	5/18/2020	5/18/2020																					
Parameter	Criteria	Criteria	Units	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous																					
				FD of MW-25						Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Trip Blank	Trip Blank																					
				Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL				
Dissolved Metals																																					
Antimony, Dissolved	6	P	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Arsenic, Dissolved	10	P	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Barium, Dissolved	2000	P	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Beryllium, Dissolved	4	P	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Cadmium, Dissolved	5	P	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Calcium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Chromium, Dissolved	100	P	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Cobalt, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Copper, Dissolved	1300	AL	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Iron, Dissolved	300	S	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Lead, Dissolved	15	AL	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Magnesium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Manganese, Dissolved	50	S	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Mercury, Dissolved	2	P	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Nickel, Dissolved	100	RE	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Potassium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Selenium, Dissolved	50	P	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Silver, Dissolved	100	S	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Sodium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Thallium, Dissolved	2	P	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Vanadium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Zinc, Dissolved	5000	S	ug/L	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Conventionals																																					
Alkalinity	NS		mg/L	6.2	5	U	5		U	5	12.6		5		U	5		U	5		U	5		U	5		U	5		U	5		U	5	NA		NA
Ammonia	NS		mg/L		U	0.1	U	0.1		U	F1	0.1		U	0.1		U	F1	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1	NA		NA
Chemical Oxygen Demand	NS		mg/L		U	10	U	10		U	10			U	10		U	10		U	10		U	10		U	10		U	10		U	10		NA		NA
Chloride	250	S	mg/L	3.22		0.12	1.99		0.12	2.75		0.12	1.54		0.12	3.16		0.12	4.29		0.12		U	0.12		U	0.12		U	0.12		U	0.12		NA		NA
Hardness as calcium carbonate	NS		mg/L	10		5	12		5	12		5	18		5	16		5	10		5		U	5		U	5		U	5		U	5		NA		NA
Nitrate as N	10	P	mg/L	0.16		0.1	U	0.1	0.12	F1	0.1	0.12		0.1	0.15		0.1	0.2		0.1		U	0.1		U	0.1		U	H	0.1		U	0.1		NA		NA
Sulfate	250	S	mg/L	4.87		0.6	22.3		0.6	13.4		0.6	10		0.6	14.8		0.6	15		0.6		U	0.6		U	0.6		U	0.6		U	0.6		NA		NA
Total Dissolved Solids	500	S	mg/L	39		10	65		10	52		10	48		10	47		10	67		10		U	10		U	10		U	10		U	10		NA		NA

Notes:
Shading exceeds EPA MCL screening criteria
P: EPA Primary MCL
S: EPA Secondary MCL
AL: EPA Action Level
RE: No MCL but recommended level by EPA
TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,
RL: Reporting Limit
Q: Qualifier
U: Compound not detected
J: The concentration is an estimated value.
B: Compound detected in sample and blank
ug/L: micrograms per liter
mg/L: milligram per liter
NS: No Standard
NA: Not analyzed
F1: MS and/or MSD exceeds control limits
*: LCS and/or LCSD outside of control limits
H: Sample analyzed beyond method holding time
MCL: Maximum Containment Level

TABLE 10C-2 - CONFINED
Event 3: GW Sampling Results Table
May 18 - May 22, 2020

Sample Location				MW-10			MW-14			MW-28			PMW-11			PMW-12			PMW-13			PMW-13D			PMW-18			PMW-18-D			PMW-19			PMW-23				
Lab ID				460-209192-03			460-209451-07			460-209516-02			460-209329-07			460-209451-02			460-209329-01			460-209329-03			460-209451-06			460-209451-09			460-209516-01			460-209329-02				
Sample Date				460-209329-11			460-209657-28			460-209657-32			460-209657-20			460-209657-23			460-209657-14			460-209657-16			460-209657-27			460-209657-30			460-209657-31			460-209329-14				
Matrix				460-209657-03																														460-209657-06				
Remarks				5/18/2020			5/21/2020			5/22/2020			5/20/2020			5/21/2020			5/20/2020			5/20/2020			5/21/2020			5/21/2020			5/22/2020			5/19/2020				
Parameter	EPA MCL Criteria	Screening Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL		
Volatiles																																						
1,1,1,2-Tetrachloroethane	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1,1-Trichloroethane	200	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1,2,2-Tetrachloroethane	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1,2-Trichloroethane	5	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1-Dichloroethane	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1-Dichloroethene	7	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2,3-Trichloropropane	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L				U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
1,2-Dibromomethane	0.05	P	ug/L				U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
1,2-Dichlorobenzene	600	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2-Dichloroethane	5	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2-Dichloropropane	5	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,4-Dichlorobenzene	75	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
2-Butanone (MEK)	NS		ug/L				U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
2-Hexanone	NS		ug/L				U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
4-Methyl-2-pentanone (MIBK)	NS		ug/L				U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
Acetone	NS		ug/L				U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
Acrylonitrile	NS		ug/L				U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Benzene	5	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Bromochloromethane	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Bromodichloromethane	80	TTHM	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Bromoform	80	TTHM	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Bromomethane	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Carbon disulfide	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Carbon tetrachloride	5	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Chlorobenzene	100	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Chloroethane	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Chloroform	80	TTHM	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Chloromethane	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
cis-1,2-Dichloroethene	70	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
cis-1,3-Dichloropropene	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Dibromochloromethane	80	TTHM	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Dibromomethane	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Ethylbenzene	700	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Iodomethane	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Methyl tert-butyl ether	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Methylene Chloride	5	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Styrene	100	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Tetrachloroethene	5	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Toluene	1000	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
trans-1,2-Dichloroethene	100	P	ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
trans-1,3-Dichloropropene	NS		ug/L				U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
trans-1,4-Dichloro-2-butene	NS		ug/L																																			

TABLE 10C-2 - CONFINED
Event 3: GW Sampling Results Table
May 18 - May 22, 2020

Sample Location				MW-10			MW-14			MW-28			PMW-11			PMW-12			PMW-13			PMW-13D			PMW-18			PMW-18-D			PMW-19			PMW-23					
Lab ID				460-209192-03			460-209451-07			460-209516-02			460-209329-07			460-209451-02			460-209329-01			460-209329-03			460-209451-06			460-209451-09			460-209516-01			460-209270-02					
				460-209329-11			460-209657-28			460-209657-32			460-209657-20			460-209657-23			460-209657-14			460-209657-16			460-209657-27			460-209657-30			460-209657-31			460-209329-14					
				460-209657-03																														460-209657-06					
Sample Date				5/18/2020			5/21/2020			5/22/2020			5/20/2020			5/21/2020			5/20/2020			5/20/2020			5/21/2020			5/21/2020			5/22/2020			5/19/2020					
Matrix				Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater					
Remarks																						FD of PMW-13						FD of PMW-18											
Parameter	EPA MCL Criteria	Screening Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL			
Dissolved Metals																																							
Antimony, Dissolved	6	P	ug/L			NA			NA			NA			U	2			U	2		NA			NA			NA			NA			NA		U	2		
Arsenic, Dissolved	10	P	ug/L			NA			NA			NA			U	2			U	2		NA			NA			NA			NA			NA		U	2		
Barium, Dissolved	2000	P	ug/L			NA			NA			NA			3.5	J	4	21		4		NA			NA			NA			NA			3.6	J	4			
Beryllium, Dissolved	4	P	ug/L			NA			NA			NA			U	0.8	0.35	J	0.8		NA			NA			NA			NA			NA		U	0.8			
Cadmium, Dissolved	5	P	ug/L			NA			NA			NA			U	2			U	2		NA			NA			NA			NA			NA		U	2		
Calcium, Dissolved	NS		ug/L			NA			NA			NA			484		200	2990		200		NA			NA			NA			NA			632		200			
Chromium, Dissolved	100	P	ug/L			NA			NA			NA			U	4			U	4		NA			NA			NA			NA			NA		U	4		
Cobalt, Dissolved	NS		ug/L			NA			NA			NA			2	J	4			U	4		NA			NA			NA			NA			NA		U	4	
Copper, Dissolved	1300	AL	ug/L			NA			NA			NA			U	4			U	4		NA			NA			NA			NA			NA		U	4		
Iron, Dissolved	300	S	ug/L			NA			NA			NA			U	120	6100		120		NA			NA			NA			NA			NA		U	120			
Lead, Dissolved	15	AL	ug/L			NA			NA			NA			U	1.2			U	1.2		NA			NA			NA			NA			NA		U	1.2		
Magnesium, Dissolved	NS		ug/L			NA			NA			NA			196	J	200	1200		200		NA			NA			NA			NA			272		200			
Manganese, Dissolved	50	S	ug/L			NA			NA			NA			4.7	J	8	58.1		8		NA			NA			NA			NA			7.4	J	8			
Mercury, Dissolved	2	P	ug/L			NA			NA			NA			U	0.2			U	0.2		NA			NA			NA			NA			NA		U	0.2		
Nickel, Dissolved	100	RE	ug/L			NA			NA			NA			3.3	J	4			U	4		NA			NA			NA			NA			NA		U	4	
Potassium, Dissolved	NS		ug/L			NA			NA			NA			471		200	1040		200		NA			NA			NA			NA			466		200			
Selenium, Dissolved	50	P	ug/L			NA			NA			NA			U	10			U	10		NA			NA			NA			NA			NA		U	10		
Silver, Dissolved	100	S	ug/L			NA			NA			NA			U	2			U	2		NA			NA			NA			NA			NA		U	2		
Sodium, Dissolved	NS		ug/L			NA			NA			NA			1140		200	1220		200		NA			NA			NA			NA			1390		200			
Thallium, Dissolved	2	P	ug/L			NA			NA			NA			U	0.8			U	0.8		NA			NA			NA			NA			NA		U	0.8		
Vanadium, Dissolved	NS		ug/L			NA			NA			NA			U	4			U	4		NA			NA			NA			NA			NA		U	4		
Zinc, Dissolved	5000	S	ug/L			NA			NA			NA			U	16	27.9		16		NA			NA			NA			NA			NA		U	16			
Conventionals																																							
Alkalinity	NS		mg/L	7.4		5	50.8		5	32.9		5			U	5			U	5		U	5		U	5		U	5		U	5	5.9		5		U	5	
Ammonia	NS		mg/L		U F1	0.1	0.2		0.1	0.15		0.1			U	0.1			U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1	
Chemical Oxygen Demand	NS		mg/L		U	10	44.8		10	22.2		10			U	10			U	10		U	10		U	10		U	10		U	10	6.1		J	10		U	10
Chloride	250	S	mg/L	2.35		0.12	0.83		0.12	0.95		0.12	1.62		0.12	1			0.12	2.08		0.12	2.01		0.12	1.4		0.12	1.41		0.12	1.78		0.12	2.43		0.12		
Hardness as calcium carbonate	NS		mg/L	10		5	56		5	32		5			U	5	16		5	6		5		U	5		U	5		U	5	8		5		U	5		
Nitrate as N	10	P	mg/L	0.11	F1	0.1	0.12		0.1	1.4		0.1	0.24		0.1	U H	0.1		U	0.1	0.11		0.1	0.37		0.1	0.38		0.1	0.38		U	0.1	0.45		0.1			
Sulfate	250	S	mg/L	3.82		0.6	0.61		0.6	0.6		0.6	5.38		0.6	15.5			0.6	17.8		0.6	17.7		0.6	3.98		0.6	2.85		0.6	2		0.6	1.85		0.6		
Total Dissolved Solids	500	S	mg/L	26		10	90		10	103		10	18		10	53			10	28		10	44		10	26		10	33		10	55		10	21		10		

Notes:

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,

Bromoform, Dibromochloromethane and Chloroform

RL: Reporting Limit

Q: Qualifier

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

ug/L: micrograms per liter

mg/L: milligram per liter

NS: No Standard

NA: Not analyzed

F1: MS and/or MSD exceeds control limits

*: LCS and/or LCSD outside of control limits

H: Sample analyzed beyond method holding time

MCL: Maximum Containment Level

TABLE 10C-2 - CONFINED
Event 3: GW Sampling Results Table
May 18 - May 22, 2020

Sample Location				EB-01-051820	EB-02-051920	EB-03-052020	EB-04-052120	EB-05-052220	TB-01-051820	TB-02-051820								
Lab ID				460-209192-04	460-209270-08	460-209329-08	460-209451-03	460-209516-05	460-209329-21	460-209657-36								
				460-209329-12	460-209329-20	460-209657-21	460-209657-24	460-209657-35										
				460-209657-04	460-209657-12													
Sample Date				5/18/2020	5/19/2020	5/20/2020	5/21/2020	5/22/2020	5/18/2020	5/18/2020								
Matrix				Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous								
Remarks	EPA MCL	Screening		Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Trip Blank	Trip Blank								
Parameter	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatiles																		
1,1,1,2-Tetrachloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
1,1,1-Trichloroethane	200	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,1,2,2-Tetrachloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
1,1,2-Trichloroethane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,1-Dichloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
1,1-Dichloroethene	7	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,2,3-Trichloropropane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
1,2-Dibromoethane	0.05	P	ug/L		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
1,2-Dichlorobenzene	600	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,2-Dichloroethane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,2-Dichloropropane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
1,4-Dichlorobenzene	75	P	ug/L		U	1		U	1		U	1		U	1		U	1
2-Butanone (MEK)	NS		ug/L		U	5		U	5		U	5		U	5		U	5
2-Hexanone	NS		ug/L		U	5		U	5		U	5		U	5		U	5
4-Methyl-2-pentanone (MIBK)	NS		ug/L		U	5		U	5		U	5		U	5		U	5
Acetone	NS		ug/L		U	5		U	5		U	5	8.4	U	5		U	5
Acrylonitrile	NS		ug/L		U	2		U	2		U	2		U	2		U	2
Benzene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
Bromochloromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Bromodichloromethane	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1
Bromoform	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1
Bromomethane	NS		ug/L		U *	1		U *	1		U	1		U	1		U	1
Carbon disulfide	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Carbon tetrachloride	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
Chlorobenzene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1
Chloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Chloroform	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1
Chloromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
cis-1,2-Dichloroethene	70	P	ug/L		U	1		U	1		U	1		U	1		U	1
cis-1,3-Dichloropropene	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Dibromochloromethane	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1
Dibromomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Ethylbenzene	700	P	ug/L		U	1		U	1		U	1		U	1		U	1
Iodomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Methyl tert-butyl ether	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Methylene Chloride	5	P	ug/L		U	1		U	1		U	1	0.51	U	1		U	1
Styrene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1
Tetrachloroethene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
Toluene	1000	P	ug/L		U	1		U	1		U	1		U	1		U	1
trans-1,2-Dichloroethene	100	P	ug/L	0.27	J	1	0.24	J	1		U	1		U	1		U	1
trans-1,3-Dichloropropene	NS		ug/L		U	1		U	1		U	1		U	1		U	1
trans-1,4-Dichloro-2-butene	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Trichloroethene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1
Trichlorofluoromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1
Vinyl acetate	NS		ug/L		U	2		U	2		U	2		U	2		U	2
Vinyl chloride	2	P	ug/L		U	1		U	1		U	1		U	1		U	1
Xylenes, Total	10000	P	ug/L		U	2		U	2		U	2		U	2		U	2
Total Metals																		
Antimony	6	P	ug/L		U	2		U	2		U	2		U	2		NA	
Arsenic	10	P	ug/L		U	2		U	2		U	2		U	2		NA	
Barium	2000	P	ug/L		U	4		U	4		U	4		U	4		NA	
Beryllium	4	P	ug/L		U	0.8		U	0.8		U	0.8		U	0.8		NA	
Cadmium	5	P	ug/L		U	2		U	2		U	2		U	2		NA	
Calcium	NS		ug/L		U	200	111	J	200		U	200	100	J	200	135	J	200
Chromium	100	P	ug/L		U	4		U	4		U	4		U	4		NA	
Cobalt	NS		ug/L		U	4		U	4		U	4		U	4		NA	
Copper	1300	AL	ug/L		U	4		U	4		U	4		U	4		NA	
Iron	300	S	ug/L		U	120		U	120		U	120		U	120		NA	
Lead	15	AL	ug/L		U	1.2		U	1.2		U	1.2		U	1.2		NA	
Magnesium	NS		ug/L		U	200		U	200		U	200		U	200		NA	
Manganese	50	S	ug/L		U	8		U	8		U	8		U	8		NA	
Mercury	2	P	ug/L		U	0.2		U	0.2		U	0.2		U	0.2		NA	
Nickel	100	RE	ug/L		U	4		U	4		U	4		U	4		NA	
Potassium	NS		ug/L		U	200		U	200		U	200		U	200		NA	
Selenium	50	P	ug/L		U	10		U	10		U	10		U	10		NA	
Silver	100	S	ug/L		U	2		U	2		U	2		U	2		NA	
Sodium	NS		ug/L	364		200	382		200	319		200	414		200	407		200
Thallium	2	P	ug/L		U	0.8		U	0.8		U	0.8		U	0.8		NA	
Vanadium	NS		ug/L		U	4		U	4		U	4		U	4		NA	
Zinc	5000	S	ug/L		U	16		U	16		U	16		U	16		NA	

TABLE 10C-2 - CONFINED
Event 3: GW Sampling Results Table
May 18 - May 22, 2020

Sample Location				EB-01-051820	EB-02-051920	EB-03-052020	EB-04-052120	EB-05-052220	TB-01-051820	TB-02-051820								
Lab ID				460-209192-04	460-209270-08	460-209329-08	460-209451-03	460-209516-05	460-209329-21	460-209657-36								
				460-209329-12	460-209329-20	460-209657-21	460-209657-24	460-209657-35										
				460-209657-04	460-209657-12													
Sample Date				5/18/2020	5/19/2020	5/20/2020	5/21/2020	5/22/2020	5/18/2020	5/18/2020								
Matrix				Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous								
Remarks	EPA MCL	Screening		Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Trip Blank	Trip Blank								
Parameter	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Dissolved Metals																		
Antimony, Dissolved	6	P	ug/L	NA			NA			NA			NA			NA		
Arsenic, Dissolved	10	P	ug/L	NA			NA			NA			NA			NA		
Barium, Dissolved	2000	P	ug/L	NA			NA			NA			NA			NA		
Beryllium, Dissolved	4	P	ug/L	NA			NA			NA			NA			NA		
Cadmium, Dissolved	5	P	ug/L	NA			NA			NA			NA			NA		
Calcium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA		
Chromium, Dissolved	100	P	ug/L	NA			NA			NA			NA			NA		
Cobalt, Dissolved	NS		ug/L	NA			NA			NA			NA			NA		
Copper, Dissolved	1300	AL	ug/L	NA			NA			NA			NA			NA		
Iron, Dissolved	300	S	ug/L	NA			NA			NA			NA			NA		
Lead, Dissolved	15	AL	ug/L	NA			NA			NA			NA			NA		
Magnesium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA		
Manganese, Dissolved	50	S	ug/L	NA			NA			NA			NA			NA		
Mercury, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA		
Nickel, Dissolved	100	RE	ug/L	NA			NA			NA			NA			NA		
Potassium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA		
Selenium, Dissolved	50	P	ug/L	NA			NA			NA			NA			NA		
Silver, Dissolved	100	S	ug/L	NA			NA			NA			NA			NA		
Sodium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA		
Thallium, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA		
Vanadium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA		
Zinc, Dissolved	5000	S	ug/L	NA			NA			NA			NA			NA		
Conventionals																		
Alkalinity	NS		mg/L	U	5		U	5		U	5		U	5		U	5	
Ammonia	NS		mg/L	U	0.1		U	0.1		U	0.1		U	0.1		U	0.1	
Chemical Oxygen Demand	NS		mg/L	U	10		U	10		U	10		U	10		U	10	
Chloride	250	S	mg/L	U	0.12		U	0.12		U	0.12		U	0.12		U	0.12	
Hardness as calcium carbonate	NS		mg/L	U	5		U	5		U	5		U	5		U	5	
Nitrate as N	10	P	mg/L	U	0.1		U	0.1		U	0.1		U	0.1		U	0.1	
Sulfate	250	S	mg/L	U	0.6		U	0.6		U	0.6		U	0.6		U	0.6	
Total Dissolved Solids	500	S	mg/L	U	10		U	10	15		10	36		10		U	10	

Notes:

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,

Bromoform, Dibromochloromethane and Chloroform

RL: Reporting Limit

Q: Qualifier

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

ug/L: micrograms per liter

mg/L: milligram per liter

NS: No Standard

NA: Not analyzed

FI: MS and/or MSD exceeds control limits

*: LCS and/or LCSD outside of control limits

H: Sample analyzed beyond method holding time

MCL: Maximum Containment Level

TABLE 10D-1 - UNCONFINED
Event 4: GW Sampling Results Table
July 6 - July 10, 2020

Sample Location				MW-4	MW-5	MW-6	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-24	MW-24D	MW-25	
Lab ID				460-212997-09 460-213318-27	460-212997-08 460-213318-26	460-212997-06 460-213318-24	460-212898-03 460-213318-14	460-212898-02 460-213318-13	460-212898-06 460-213318-17	460-212898-09 460-213318-02	460-212898-08 460-212685-01 460-213318-01	460-212774-07 460-213318-10 460-212898-16	460-213318-09 460-212774-06 460-212898-15	460-212997-01 460-213318-19	460-212997-04 460-213318-22	460-213318-23 460-212997-05	460-213318-07 460-212898-14 460-212774-04	
Sample Date				7/9/2020	7/9/2020	7/9/2020	7/8/2020	7/8/2020	7/8/2020	7/6/2020	7/6/2020	7/7/2020	7/7/2020	7/9/2020	7/9/2020	7/9/2020	7/7/2020	
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	
Remarks																		
Parameter	EPA MCL Criteria	Screening Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatiles																		
1,1,1,2-Tetrachloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,1-Trichloroethane	200	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,2,2-Tetrachloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,2-Trichloroethane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,1-Dichloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1-Dichloroethene	7	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2,3-Trichloropropane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L	U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	
1,2-Dibromoethane	0.05	P	ug/L	U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	
1,2-Dichlorobenzene	600	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dichloroethane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dichloropropane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,4-Dichlorobenzene	75	P	ug/L	U	1		U	1		U	1		U	1		U	1	
2-Butanone (MEK)	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
2-Hexanone	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
4-Methyl-2-pentanone (MIBK)	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
Acetone	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
Acrylonitrile	NS		ug/L	U	2		U	2		U	2		U	2		U	2	
Benzene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromochloromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Bromodichloromethane	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromoform	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Carbon disulfide	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Carbon tetrachloride	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Chlorobenzene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Chloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Chloroform	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Chloromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
cis-1,2-Dichloroethene	70	P	ug/L	U	1		U	1		U	1		U	1		U	1	
cis-1,3-Dichloropropene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Dibromochloromethane	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Dibromomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Ethylbenzene	700	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Iodomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Methyl tert-butyl ether	NS		ug/L	1.2		0.65	J	1		U	1		U	1		U	1	
Methylene Chloride	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Styrene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Tetrachloroethene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Toluene	1000	P	ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,2-Dichloroethene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,3-Dichloropropene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,4-Dichloro-2-butene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Trichloroethene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Trichlorofluoromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Vinyl acetate	NS		ug/L	U	2		U	2		U	2		U	2		U	2	
Vinyl chloride	2	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Xylenes, Total	10000	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Total Metals																		
Antimony	6	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Arsenic	10	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Barium	2000	P	ug/L	39.4	4	8.5	4	21.1	4	107	4	22.3	4	20.3	4	65.4	4	29.7
Beryllium	4	P	ug/L	0.15	J	0.8		U	0.8		U	0.8	2.8	0.8	0.19	J	0.8	
Cadmium	5	P	ug/L	0.17	J	2		U	2		U	2	0.28	J	2	0.29	J	2
Calcium	NS		ug/L	1940	200	2180	200	2530	200	3360	200	5160	200	1340	200	3930	200	571
Chromium	100	P	ug/L	1.9	J	4	1.2	J	4		U	4	7.9	4	0.88	J	4	5.6
Cobalt	NS		ug/L	3.9	J	4	1.6	J	4	0.56	J	4	0.54	J	4	19.8	4	4.1
Copper	1300	AL	ug/L	U	4		U	4		U	4		7.1	4	6.6	4	7.6	4
Iron	300	S	ug/L	83.1	J	120	182	120		U	120	2490	120	74.9	J	120	5850	120
Lead	15	AL	ug/L	U	1.2	1.8	1.2		U	1.2	1	1.2	0.17	J	1.2	3.4	1.2	0.29
Magnesium	NS		ug/L	3260	200	1620	200	2020	200	711	200	1190	200	709	200	7870	200	908
Manganese	50	S	ug/L	22.7	8	13.7	8	9.2	8	66.7	8	57.4	8	56.7	8	12.6	8	134
Mercury	2	P	ug/L	U	0.2		U	0.2		U	0.2		U	0.2		U	0.2	
Nickel	100	RE	ug/L	6	4	3.9	J	4	1.9	J	4	3.2	J	4	23.2	4	7.5	4
Potassium	NS		ug/L	983	200	865	200	1200	200	1350	200	822	200	348	200	1420	200	551
Selenium	50	P	ug/L	0.52	J	2.5	0.62	J	2.5		U	2.5		U	2.5		U	2.5
Silver	100	S	ug/L	U	2		U	2		U	2		U	2		U	2	
Sodium	NS		ug/L	3260	200	4730	200	3040	200	661	B	200	1770	B	200	1760	B	200
Thallium	2	P	ug/L	U	0.8		U	0.8		U	0.8		U	0.8		U	0.8	
Vanadium	NS		ug/L	U	4		U	4		U	4		5.7	4		U	4	
Zinc	5000	S	ug/L	8.4	J	16	7.4	J	16		U	16	37.7	16	102	16	33.7	16

TABLE 10D-1 - UNCONFINED
Event 4: GW Sampling Results Table
July 6 - July 10, 2020

Sample Location				MW-4			MW-5			MW-6			MW-15			MW-16			MW-17			MW-18			MW-19			MW-20			MW-21			MW-22			MW-24			MW-24D			MW-25				
Lab ID				460-212997-09			460-212997-08			460-212997-06			460-212898-03			460-212898-02			460-212898-06			460-212898-09			460-212898-08			460-212774-07			460-213318-09			460-212997-01			460-212997-04			460-213318-23			460-213318-07				
				460-213318-27			460-213318-26			460-213318-24			460-213318-14			460-213318-13			460-213318-17			460-213318-02			460-212685-01			460-213318-10			460-212774-06			460-213318-19			460-213318-22			460-212997-05			460-212898-14				
Sample Date				7/9/2020			7/9/2020			7/9/2020			7/8/2020			7/8/2020			7/8/2020			7/6/2020			7/6/2020			7/7/2020			7/7/2020			7/9/2020			7/9/2020			7/9/2020			7/7/2020				
Matrix				Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater				
Remarks																																															
Parameter	EPA MCL Criteria	Screening Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL		
Dissolved Metals																																															
Antimony, Dissolved	6	P	ug/L	NA			NA			NA			NA			NA			U	2		NA			NA			U	2		NA			NA			NA			NA			NA				
Arsenic, Dissolved	10	P	ug/L	NA			NA			NA			NA			NA			1.7	J	2		NA			NA			U	2		NA			NA			NA			NA			NA			
Barium, Dissolved	2000	P	ug/L	NA			NA			NA			NA			NA			23.6	J	4		NA			NA			64.8	J	4		NA			NA			NA			NA			NA		
Beryllium, Dissolved	4	P	ug/L	NA			NA			NA			NA			NA			0.26	J	0.8		NA			NA			1.8	J	0.8		NA			NA			NA			NA			NA		
Cadmium, Dissolved	5	P	ug/L	NA			NA			NA			NA			NA			U	2		NA			NA			0.18	J	2		NA			NA			NA			NA			NA			
Calcium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			1570	J	200		NA			NA			813	J	200		NA			NA			NA			NA			NA		
Chromium, Dissolved	100	P	ug/L	NA			NA			NA			NA			NA			2	J	4		NA			NA			U	4		NA			NA			NA			NA			NA			
Cobalt, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			4.3	J	4		NA			NA			17.7	J	4		NA			NA			NA			NA			NA		
Copper, Dissolved	1300	AL	ug/L	NA			NA			NA			NA			NA			4.3	J	4		NA			NA			8	J	4		NA			NA			NA			NA			NA		
Iron, Dissolved	300	S	ug/L	NA			NA			NA			NA			NA			3300	J	120		NA			NA			12	J	120		NA			NA			NA			NA			NA		
Lead, Dissolved	15	AL	ug/L	NA			NA			NA			NA			NA			2.8	J	1.2		NA			NA			1.5	J	1.2		NA			NA			NA			NA			NA		
Magnesium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			661	J	200		NA			NA			697	J	200		NA			NA			NA			NA			NA		
Manganese, Dissolved	50	S	ug/L	NA			NA			NA			NA			NA			62	J	8		NA			NA			83.2	J	8		NA			NA			NA			NA			NA		
Mercury, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			U	0.2		NA			NA			U	0.2		NA			NA			NA			NA			NA			NA	
Nickel, Dissolved	100	RE	ug/L	NA			NA			NA			NA			NA			7.4	J	4		NA			NA			11.4	J	4		NA			NA			NA			NA			NA		
Potassium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			183	J	200		NA			NA			841	J	200		NA			NA			NA			NA			NA		
Selenium, Dissolved	50	P	ug/L	NA			NA			NA			NA			NA			U	2.5		NA			NA			U	2.5		NA			NA			NA			NA			NA			NA	
Silver, Dissolved	100	S	ug/L	NA			NA			NA			NA			NA			U	2		NA			NA			U	2		NA			NA			NA			NA			NA			NA	
Sodium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			1720	J	200		NA			NA			1330	J	200		NA			NA			NA			NA			NA		
Thallium, Dissolved	2	P	ug/L	NA			NA			NA			NA			NA			U	0.8		NA			NA			U	0.8		NA			NA			NA			NA			NA			NA	
Vanadium, Dissolved	NS		ug/L	NA			NA			NA			NA			NA			3.1	J	4		NA			NA			U	4		NA			NA			NA			NA			NA			NA
Zinc, Dissolved	5000	S	ug/L	NA			NA			NA			NA			NA			22.5	J	16		NA			NA			54.3	J	16		NA			NA			NA			NA			NA		
Conventional																																															
Alkalinity	NS		mg/L	U	5		U	5	5.5		5	14		5	11		5		U	5	21		10			U	10		U	5	6		5	9.2		5	8		5	7.5		5	11		5		
Ammonia	NS		mg/L	U	0.1		U	0.1		U	0.1	0.058	J	0.1		U	0.1		U	0.1		U	0.1			U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		
Chemical Oxygen Demand	NS		mg/L	4.1	J	10		U	10		U	10	46.8	J	10		U	10		U	10	10.7		U	10		U	10		U	10		U	10		U	10		U	10		U	10		U	10	
Chloride	250	S	mg/L	4.81		0.12	5.36		0.12	4.65		0.12	0.45		0.12	2.22		0.12	1.27		0.12	2.01		0.12	2.72		0.12	1.91		0.12	3.04		0.12	1.82		0.12	2.13		0.12	2.22		0.12	3.3		0.12		
Hardness as calcium carbonate	NS		mg/L	14		5	10		5	12		5	16		5	16		5	10		5	34		5	6		5	8		5	14		5	12		5	26		5	26		5	10		5		
Nitrate as N	10	P	mg/L	0.18		0.1	0.45		0.1	0.25		0.1	0.093	J	0.1	0.095	J	0.1	0.089	J	0.1	1.46		0.1	0.096	J	0.1	0.1		0.1	0.37		0.1	0.13		0.1	0.76		0.1	0.76		0.1	0.13		0.1		
Sulfate	250	S	mg/L	14.7		0.6	5.83		0.6	7.61		0.6	1.73		0.6	17.9		0.6	15.2		0.6	23.2		0.6	37.3		0.6	15.3		0.6	13.5		0.6	11.1	F1	0.6	14.5		0.6	13.8		0.6	3.82		0.6		
Total Dissolved Solids	500	S	mg/L	57		10	49		10	45		10	48		10	51		10	21		10	56		10	17		10	20		10	48		10	35		10	65		10	72		10	35		10		

Notes:

MCL: Maximum Containment Level

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,

Bromoform, Dibromochloromethane and Chloroform

ug/L: micrograms per liter

mg/L: milligram per liter

RL: Reporting Limit

Q: Qualifier

NS: No Standard

NA: Not analyzed

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

H: Sample analyzed beyond method holding time

F1/F2: MS and/or MSD exceeds control limits

TABLE 10D-1 - UNCONFINED
Event 4: GW Sampling Results Table
July 6 - July 10, 2020

Sample Location				MW-25D	MW-27	MW-29	MW-29D	MW-30	PMW-6	PMW-28	EB-01-070620	EB-02-070720	EB-03-070820	EB-04-070920	EB-05-071020	TB-01-070620	TB-02-070920	
Lab ID				460-212898-19	460-212898-05	460-213077-03	460-213318-31	460-212774-03	460-213077-02	460-213318-28	460-212685-03	460-212774-08	460-213318-18	460-213318-21	460-213318-33	460-212898-18	460-213318-36	
Sample Date				460-212774-05	460-213318-16	460-213318-30	460-213077-04	460-213318-06	460-213318-29	460-213077-01	460-213318-03	460-212898-17	460-212898-07	460-212997-03	460-213077-06			
Matrix				7/7/2020	7/8/2020	7/10/2020	7/10/2020	7/7/2020	7/10/2020	7/10/2020	7/6/2020	7/7/2020	7/8/2020	7/9/2020	7/10/2020	7/6/2020	7/9/2020	
Remarks				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Trip Blank	Trip Blank	
Parameter	EPA MCL	Screening		FD of MW-25			FD of MW-29				Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank			
	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatiles																		
1,1,1,2-Tetrachloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,1-Trichloroethane	200	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,2,2-Tetrachloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,2-Trichloroethane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,1-Dichloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1-Dichloroethene	7	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2,3-Trichloropropane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L	U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	
1,2-Dibromoethane	0.05	P	ug/L	U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	
1,2-Dichlorobenzene	600	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dichloroethane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dichloropropane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,4-Dichlorobenzene	75	P	ug/L	U	1		U	1		U	1		U	1		U	1	
2-Butanone (MEK)	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
2-Hexanone	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
4-Methyl-2-pentanone (MIBK)	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
Acetone	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
Acrylonitrile	NS		ug/L	U	2		U	2		U	2		U	2		U	2	
Benzene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromochloromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Bromodichloromethane	80	THM	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromoform	80	THM	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Carbon disulfide	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Carbon tetrachloride	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Chlorobenzene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Chloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Chloroform	80	THM	ug/L	U	1		U	1		U	1		U	1		U	1	
Chloromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
cis-1,2-Dichloroethene	70	P	ug/L	U	1		U	1		U	1		U	1		U	1	
cis-1,3-Dichloropropene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Dibromochloromethane	80	THM	ug/L	U	1		U	1		U	1		U	1		U	1	
Dibromomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Ethylbenzene	700	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Iodomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Methyl tert-butyl ether	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Methylene Chloride	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Styrene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Tetrachloroethene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Toluene	1000	P	ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,2-Dichloroethene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,3-Dichloropropene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,4-Dichloro-2-butene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Trichloroethene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Trichlorofluoromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Vinyl acetate	NS		ug/L	U	2		U	2		U	2		U	2		U	2	
Vinyl chloride	2	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Xylenes, Total	10000	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Total Metals																		
Antimony	6	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Arsenic	10	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Barium	2000	P	ug/L	21.5	4	33	4	20.3	4	22.1	4	14.5	4	23.5	4	4	NA	NA
Beryllium	4	P	ug/L	U	0.8	0.16	J	0.8	0.69	J	0.8	0.71	J	0.8	U	0.8	NA	NA
Cadmium	5	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Calcium	NS		ug/L	2350	200	1340	200	2000	200	2060	200	5500	200	2330	200	2620	200	143
Chromium	100	P	ug/L	2.7	J	4	1.9	J	4	0.81	J	4	0.77	J	4	4.2	4	4
Cobalt	NS		ug/L	1.3	J	4	2.9	J	4	6.9	4	7.1	4	0.42	J	4	4	4
Copper	1300	AL	ug/L	29.1	4	3.1	J	4	U	4	U	4	5.6	4	U	4	U	4
Iron	300	S	ug/L	1190	120	2890	120	1800	120	1890	120	1700	120	22.5	J	120	130	120
Lead	15	AL	ug/L	2.2	1.2	1.3	1.2	0.11	J	1.2	1.6	1.2	U	1.2	0.18	J	1.2	U
Magnesium	NS		ug/L	1360	200	873	200	871	200	909	200	1130	200	2100	200	2030	200	U
Manganese	50	S	ug/L	20.9	8	65.3	8	26.2	8	22.4	8	14.6	8	10	8	17.3	8	U
Mercury	2	P	ug/L	U	0.2		U	0.2		U	0.2		U	0.2		U	0.2	
Nickel	100	RE	ug/L	3.3	J	4	2.9	J	4	12.1	4	12.3	4	1.6	J	4	2.9	J
Potassium	NS		ug/L	1220	200	902	200	1350	200	1390	200	1290	200	1080	200	1230	200	U
Selenium	50	P	ug/L	U	2.5		U	2.5		U	2.5		U	2.5		U	2.5	
Silver	100	S	ug/L	U	2		U	2		U	2		U	2		U	2	
Sodium	NS		ug/L	2500	B	200	1690	B	200	5310	200	5600	200	1060	B	200	3470	200
Thallium	2	P	ug/L	U	0.8		U	0.8		U	0.8		U	0.8		U	0.8	
Vanadium	NS		ug/L	3.2	J	4	2	J	4	U	4	4.2	4	U	4	U	4	
Zinc	33.4	S	ug/L	33.4	16	9.9	J	16	76.9	16	76	16	96.9	16	U	16	44.1	16

TABLE 10D-1 - UNCONFINED
Event 4: GW Sampling Results Table
July 6 - July 10, 2020

Sample Location				MW-25D			MW-27			MW-29			MW-29D			MW-30			PMW-6			PMW-28			EB-01-070620			EB-02-070720			EB-03-070820			EB-04-070920			EB-05-071020			TB-01-070620			TB-02-070920				
Lab ID				460-212898-19	460-212898-05	460-213077-03	460-213318-31	460-212774-03	460-213318-28	460-213077-01	460-213318-03	460-212898-17	460-213318-18	460-213318-21	460-213318-33	460-212898-18	460-213077-06							460-212898-10	460-213318-11																						
Sample Date				7/7/2020	7/8/2020	7/10/2020	7/10/2020	7/7/2020	7/10/2020	7/10/2020	7/6/2020	7/7/2020	7/8/2020	7/9/2020	7/10/2020	7/6/2020	7/9/2020																														
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous																														
Remarks	EPA MCL	Screening		FD of MW-25							FD of MW-29													Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Trip Blank	Trip Blank																
Parameter	Criteria	Criteria	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL		
Dissolved Metals																																															
Antimony, Dissolved	6	P	ug/L	NA		NA		NA		NA		NA		NA		U	2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
Arsenic, Dissolved	10	P	ug/L	NA		NA		NA		NA		NA		NA		U	2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
Barium, Dissolved	2000	P	ug/L	NA		NA		NA		NA		NA		NA		10.1		4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Beryllium, Dissolved	4	P	ug/L	NA		NA		NA		NA		NA		NA		U	0.8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
Cadmium, Dissolved	5	P	ug/L	NA		NA		NA		NA		NA		NA		U	2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
Calcium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		5850		200		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chromium, Dissolved	100	P	ug/L	NA		NA		NA		NA		NA		NA		U	4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		
Cobalt, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		0.32	J	4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Copper, Dissolved	1300	AL	ug/L	NA		NA		NA		NA		NA		NA		3.7	J	4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Iron, Dissolved	300	S	ug/L	NA		NA		NA		NA		NA		NA		126		120		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Lead, Dissolved	15	AL	ug/L	NA		NA		NA		NA		NA		NA		0.23	J	1.2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Magnesium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		1080		200		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Manganese, Dissolved	50	S	ug/L	NA		NA		NA		NA		NA		NA		16.7		8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Mercury, Dissolved	2	P	ug/L	NA		NA		NA		NA		NA		NA		U	0.2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
Nickel, Dissolved	100	RE	ug/L	NA		NA		NA		NA		NA		NA		0.87	J	4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Potassium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		1100		200		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Selenium, Dissolved	50	P	ug/L	NA		NA		NA		NA		NA		NA		U	2.5		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
Silver, Dissolved	100	S	ug/L	NA		NA		NA		NA		NA		NA		U	2		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
Sodium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		1120		200		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Thallium, Dissolved	2	P	ug/L	NA		NA		NA		NA		NA		NA		U	0.8		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
Vanadium, Dissolved	NS		ug/L	NA		NA		NA		NA		NA		NA		U	4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
Zinc, Dissolved	5000	S	ug/L	NA		NA		NA		NA		NA		NA		88.7		16		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Conventional																																															
Alkalinity	NS		mg/L	11		5		U	5		U	5		U	5	21		5	5.9		5		U	5		U	10		U	5		U	5		U	5		U	5		NA		NA		NA		
Ammonia	NS		mg/L		U	0.1		U	0.1		U	0.1		U	F1	0.1		U	0.1		U	F1	0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	0.1		NA		NA		NA			
Chemical Oxygen Demand	NS		mg/L		U	10		U	10		U	10		U	10	18.6		10		U	10	4.1		J	10		U	10		U	10		U	10		U	10		U	10		NA		NA		NA	
Chloride	250	S	mg/L	3.29		0.12	1.76		0.12	2.86		0.12	2.82		0.12	0.72		0.12	3.06		0.12	6.98		0.12		U	0.12		U	0.12		U	0.12		U	0.12		U	0.12		NA		NA		NA		
Hardness as calcium carbonate	NS		mg/L	10		5	10		5	10		5	10		5	20		5	12		5	12		5		U	5		U	5		U	5		U	5		U	5		NA		NA		NA		
Nitrate as N	10	P	mg/L	0.13		0.1	1.47		0.1		U	0.1		U	0.1	0.089	J	0.1	0.12		H	0.1	0.23		H	0.1		U	0.1		U	0.1		U	0.1		U	0.1		NA		NA		NA			
Sulfate	250	S	mg/L	4.38		0.6	31.3		0.6	16.8		0.6	19.1		0.6	1.99		0.6	14.1		F1	0.6	11.6		0.6		U	0.6		U	0.6		U	0.6		U	0.6		U	0.6		NA		NA			
Total Dissolved Solids	500	S	mg/L	39		10	45		10	39		10	95		10	48		10	36		10	41		10		U	10		U	10		U	10		U	10		U	10		NA		NA		NA		

Notes:

MCL: Maximum Containment Level

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,

Bromoform, Dibromochloromethane and Chloroform

ug/L: micrograms per liter

mg/L: milligram per liter

RL: Reporting Limit

Q: Qualifier

NS: No Standard

NA: Not analyzed

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

H: Sample analyzed beyond method holding time

F1/F2: MS and/or MSD exceeds control limits

TABLE 10D-2 - CONFINED
Event 4: GW Sampling Results Table
July 6 - July 10, 2020

Sample Location				MW-10			MW-14			MW-28			PMW-11			PMW-12			PMW-13			PMW-18			PMW-19			PMW-23		
Lab ID				460-213318-35			460-213077-07			460-212774-02			460-213318-25			460-213318-12			460-213318-15			460-213318-32			460-212898-11			460-213318-20		
Sample Date				7/10/2020			7/10/2020			7/7/2020			7/9/2020			7/7/2020			7/8/2020			7/10/2020			7/7/2020			7/9/2020		
Matrix				Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater			Groundwater		
Remarks	EPA MCL	Screening																												
Parameter	Criteria	Criteria Notes	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatiles																														
1,1,1,2-Tetrachloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1,1-Trichloroethane	200	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1,2,2-Tetrachloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1,2-Trichloroethane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1-Dichloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,1-Dichloroethene	7	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2,3-Trichloropropane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
1,2-Dibromothane	0.05	P	ug/L		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02		U	0.02
1,2-Dichlorobenzene	600	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2-Dichloroethane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,2-Dichloropropane	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
1,4-Dichlorobenzene	75	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
2-Butanone (MEK)	NS		ug/L		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
2-Hexanone	NS		ug/L		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
4-Methyl-2-pentanone (MIBK)	NS		ug/L		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
Acetone	NS		ug/L		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5		U	5
Acrylonitrile	NS		ug/L		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Benzene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Bromochloromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Bromodichloromethane	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Bromoform	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Bromomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Carbon disulfide	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Carbon tetrachloride	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Chlorobenzene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Chloroethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Chloroform	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Chloromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
cis-1,2-Dichloroethene	70	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
cis-1,3-Dichloropropene	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Dibromochloromethane	80	TTHM	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Dibromomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Ethylbenzene	700	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Iodomethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Methyl tert-butyl ether	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Methylene Chloride	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Styrene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Tetrachloroethene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Toluene	1000	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
trans-1,2-Dichloroethene	100	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
trans-1,3-Dichloropropene	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
trans-1,4-Dichloro-2-butene	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Trichloroethene	5	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Trichlorofluoromethane	NS		ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Vinyl acetate	NS		ug/L		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Vinyl chloride	2	P	ug/L		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1		U	1
Xylenes, Total	10000	P	ug/L		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Total Metals																														
Antimony	6	P	ug/L		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Arsenic	10	P	ug/L	1.1	J	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2		U	2
Barium	2000	P	ug/L	3.8	J	4	15.8		U	4	38.4		U	4	7.9		U	4	7		U	4	6.3		U	4	14.9		U	4
Beryllium	4	P	ug/L	0.16	J	0.8		U	0.8		U	0.8		U	0.8	0.64	J	0.8		U	0.8	0.12	J	0.8	0.18	J	0.8		U	0.8
Cadmium	5	P	ug/L		U	2		U	2		U	2		U	2		U	2	0.51	J	2		U	2		U	2		U	2
Calcium	NS		ug/L	4100		200	130																							

TABLE 10D-2 - CONFINED
Event 4: GW Sampling Results Table
July 6 - July 10, 2020

Sample Location				MW-10			MW-14			MW-28			PMW-11			PMW-12			PMW-13			PMW-18			PMW-19			PMW-23				
Lab ID				460-213318-35	460-213077-07	460-212774-02	460-213318-25	460-213318-12	460-213318-15	460-213318-32	460-212898-11	460-212997-02	460-213077-08	460-213318-34	460-212898-12	460-212997-07	460-212898-01	460-212898-04	460-213077-05	460-213318-04	460-213318-15	460-213318-20										
Sample Date				7/10/2020	7/10/2020	7/7/2020	7/9/2020	7/7/2020	7/8/2020	7/10/2020	7/7/2020	7/9/2020	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater										
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Remarks	EPA MCL	Screening																	
Parameter	Criteria	Criteria Notes	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL		
Dissolved Metals																																
Antimony, Dissolved	6	P	ug/L	NA			NA			NA			U	2		U	2		NA			NA			NA			U	2			
Arsenic, Dissolved	10	P	ug/L	NA			NA			NA			U	2		U	2		NA			NA			NA			U	2			
Barium, Dissolved	2000	P	ug/L	NA			NA			NA	4.7	4	20.3		4	NA	NA		NA			NA			NA			4.2		4		
Beryllium, Dissolved	4	P	ug/L	NA			NA			NA	0.15	J	0.8	0.49	J	0.8	NA	NA		NA			NA			NA	0.1	J	0.8			
Cadmium, Dissolved	5	P	ug/L	NA			NA			NA			U	2		U	2		NA			NA			NA			U	2			
Calcium, Dissolved	NS		ug/L	NA			NA			NA	555		200	2940		200	NA	NA		NA			NA			NA	731		200			
Chromium, Dissolved	100	P	ug/L	NA			NA			NA			U	4		U	4		NA			NA			NA			U	4			
Cobalt, Dissolved	NS		ug/L	NA			NA			NA	2.1	J	4	0.53	J	4	NA	NA		NA			NA			NA	1.2		J	4		
Copper, Dissolved	1300	AL	ug/L	NA			NA			NA			U	4		U	4		NA			NA			NA			U	4			
Iron, Dissolved	300	S	ug/L	NA			NA			NA			U	120	4660		120	NA	NA			NA			NA			U	120			
Lead, Dissolved	15	AL	ug/L	NA			NA			NA			U	1.2		U	1.2		NA			NA			NA			U	1.2			
Magnesium, Dissolved	NS		ug/L	NA			NA			NA	220		200	1140		200	NA	NA			NA			NA			317		200			
Manganese, Dissolved	50	S	ug/L	NA			NA			NA	5.7	J	8	59.1		8	NA	NA		NA			NA			NA	8		8			
Mercury, Dissolved	2	P	ug/L	NA			NA			NA	0.092	J	0.2		U	0.2	NA	NA		NA			NA			NA		U	0.2			
Nickel, Dissolved	100	RE	ug/L	NA			NA			NA	3.6	J	4	2.6	J	4	NA	NA		NA			NA			NA	2.2	J	4			
Potassium, Dissolved	NS		ug/L	NA			NA			NA	498		200	1110		200	NA	NA		NA			NA			NA	478		200			
Selenium, Dissolved	50	P	ug/L	NA			NA			NA	1.1	J	2.5		U	2.5	NA	NA		NA			NA			NA			U	2.5		
Silver, Dissolved	100	S	ug/L	NA			NA			NA			U	2		U	2		NA			NA			NA			U	2			
Sodium, Dissolved	NS		ug/L	NA			NA			NA	1380		200	1680		200	NA	NA		NA			NA			NA	1690		200			
Thallium, Dissolved	2	P	ug/L	NA			NA			NA			U	0.8		U	0.8		NA			NA			NA			U	0.8			
Vanadium, Dissolved	NS		ug/L	NA			NA			NA			U	4		U	4		NA			NA			NA			U	4			
Zinc, Dissolved	5000	S	ug/L	NA			NA			NA	7.9	J	16	197		16	NA	NA		NA			NA			NA			U	16		
Conventionals																																
Alkalinity	NS		mg/L		U	5	48.6		5	32.3		5		U	5		U	5		U	5		U	5	11.9		5		U	5		
Ammonia	NS		mg/L		U	0.1			U	0.1	0.15		0.1		U	0.1		U	0.1		U	0.1		U	0.1		U	F1	0.1		U	0.1
Chemical Oxygen Demand	NS		mg/L		U	10	19.9		10	11.4		10		U	10		U	10		U	10		U	10	7.8		J	10		U	10	
Chloride	250	S	mg/L	2.36		0.12	0.57		0.12	0.93		0.12	1.46		0.12	1.08		0.12	2.11		0.12	1.42		0.12	1.61		0.12	2.41		0.12		
Hardness as calcium carbonate	NS		mg/L	16		5	36		5	36		5	6		5	12		5	8		5	6		5	12		5	10		5		
Nitrate as N	10	P	mg/L	0.085		0.1	0.2		0.1			U	0.1	0.19		0.1		U	0.1		U	0.1	0.32		0.1		U	0.1	0.39		0.1	
Sulfate	250	S	mg/L	2.62		0.6	0.52		0.6	1.62		0.6	3.78		0.6	18.2		0.6	18.1		0.6	6.55		0.6	5.33		F1	0.6	1.76		0.6	
Total Dissolved Solids	500	S	mg/L	33		10	70		10	73		10	14		10	50		10	40		10	22		10	14		10	31		10		

Notes:

MCL: Maximum Containment Level

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane,

Bromoform, Dibromochloromethane and Chloroform

ug/L: micrograms per liter

mg/L: milligram per liter

RL: Reporting Limit

Q: Qualifier

NS: No Standard

NA: Not analyzed

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

H: Sample analyzed beyond method holding time

F1/F2: MS and/or MSD exceeds control limits

TABLE 10D-2 - CONFINED
Event 4: GW Sampling Results Table
July 6 - July 10, 2020

Sample Location				EB-01-070620	EB-02-070720	EB-03-070820	EB-04-070920	EB-05-071020	TB-01-070620	TB-02-070920								
Lab ID				460-212685-03	460-212774-08	460-213318-18	460-213318-21	460-213318-33	460-212898-18	460-213318-36								
Sample Date				7/6/2020	7/7/2020	7/8/2020	7/9/2020	7/10/2020	7/6/2020	7/9/2020								
Matrix				Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous								
Remarks	EPA MCL	Screening		Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Trip Blank	Trip Blank								
Parameter	Criteria	Criteria Notes	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Volatiles																		
1,1,1,2-Tetrachloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,1-Trichloroethane	200	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,2,2-Tetrachloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1,2-Trichloroethane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,1-Dichloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,1-Dichloroethene	7	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2,3-Trichloropropane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dibromo-3-Chloropropane	0.2	P	ug/L	U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	
1,2-Dibromoethane	0.05	P	ug/L	U	0.02		U	0.02		U	0.02		U	0.02		U	0.02	
1,2-Dichlorobenzene	600	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dichloroethane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,2-Dichloropropane	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
1,4-Dichlorobenzene	75	P	ug/L	U	1		U	1		U	1		U	1		U	1	
2-Butanone (MEK)	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
2-Hexanone	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
4-Methyl-2-pentanone (MIBK)	NS		ug/L	U	5		U	5		U	5		U	5		U	5	
Acetone	NS		ug/L	U	5		U	5		25	5		U	5		U	5	
Acrylonitrile	NS		ug/L	U	2		U	2		U	2		U	2		U	2	
Benzene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromochloromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Bromodichloromethane	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromoform	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Bromomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Carbon disulfide	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Carbon tetrachloride	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Chlorobenzene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Chloroethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Chloroform	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Chloromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
cis-1,2-Dichloroethene	70	P	ug/L	U	1		U	1		U	1		U	1		U	1	
cis-1,3-Dichloropropene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Dibromochloromethane	80	TTHM	ug/L	U	1		U	1		U	1		U	1		U	1	
Dibromomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Ethylbenzene	700	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Iodomethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Methyl tert-butyl ether	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Methylene Chloride	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Styrene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Tetrachloroethene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Toluene	1000	P	ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,2-Dichloroethene	100	P	ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,3-Dichloropropene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
trans-1,4-Dichloro-2-butene	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Trichloroethene	5	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Trichlorofluoromethane	NS		ug/L	U	1		U	1		U	1		U	1		U	1	
Vinyl acetate	NS		ug/L	U	2		U	2		U	2		U	2		U	2	
Vinyl chloride	2	P	ug/L	U	1		U	1		U	1		U	1		U	1	
Xylenes, Total	10000	P	ug/L	U	2		U	2		U	2		U	2		U	2	
Total Metals																		
Antimony	6	P	ug/L	U	2		U	2		U	2		U	2		NA		NA
Arsenic	10	P	ug/L	U	2		U	2		U	2		U	2		NA		NA
Barium	2000	P	ug/L	U	4		U	4		U	4		U	4		NA		NA
Beryllium	4	P	ug/L	U	0.8		U	0.8		U	0.8		U	0.8		NA		NA
Cadmium	5	P	ug/L	U	2		U	2		U	2		U	2		NA		NA
Calcium	NS		ug/L	143	J	200	157	J	200	164	J	200	142	J	200	150	J	200
Chromium	100	P	ug/L	U	4		U	4		U	4		U	4		U	4	
Cobalt	NS		ug/L	U	4		U	4		U	4		U	4		U	4	
Copper	1300	AL	ug/L	U	4		U	4		U	4		U	4		U	4	
Iron	300	S	ug/L	U	120	20.8	J	120	U	120	U	120	U	120	U	120	NA	NA
Lead	15	AL	ug/L	U	1.2		U	1.2		U	1.2		U	1.2		U	1.2	NA
Magnesium	NS		ug/L	U	200		U	200		U	200		U	200		U	200	NA
Manganese	50	S	ug/L	U	8		U	8		U	8		U	8		U	8	NA
Mercury	2	P	ug/L	U	0.2		U	0.2		U	0.2		U	0.2		U	0.2	NA
Nickel	100	RE	ug/L	U	4		U	4		U	4		U	4		U	4	NA
Potassium	NS		ug/L	U	200		U	200		U	200		U	200		U	200	NA
Selenium	50	P	ug/L	U	2.5		U	2.5		U	2.5		U	2.5		U	2.5	NA
Silver	100	S	ug/L	U	2		U	2		U	2		U	2		U	2	NA
Sodium	NS		ug/L	536	B	200	535	B	200	606	B	200	557	U	200	577	200	NA
Thallium	2	P	ug/L	U	0.8		U	0.8		U	0.8		U	0.8		U	0.8	NA
Vanadium	NS		ug/L	U	4		U	4		U	4		U	4		U	4	NA
Zinc	5000	S	ug/L	U	16		U	16		U	16		U	16		U	16	NA

TABLE 10D-2 - CONFINED
Event 4: GW Sampling Results Table
July 6 - July 10, 2020

Sample Location				EB-01-070620	EB-02-070720	EB-03-070820	EB-04-070920	EB-05-071020	TB-01-070620	TB-02-070920								
Lab ID				460-212685-03	460-212774-08	460-213318-18	460-213318-21	460-213318-33	460-212898-18	460-213318-36								
				460-213318-03	460-212898-17	460-212898-07	460-212997-03	460-213077-06										
				460-212898-10	460-213318-11													
Sample Date				7/6/2020	7/7/2020	7/8/2020	7/9/2020	7/10/2020	7/6/2020	7/9/2020								
Matrix				Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous								
Remarks	EPA MCL	Screening		Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank	Trip Blank	Trip Blank								
Parameter	Criteria	Criteria Notes	Units	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL	Result	Q	RL
Dissolved Metals																		
Antimony, Dissolved	6	P	ug/L		NA		NA		NA		NA		NA		NA		NA	
Arsenic, Dissolved	10	P	ug/L		NA		NA		NA		NA		NA		NA		NA	
Barium, Dissolved	2000	P	ug/L		NA		NA		NA		NA		NA		NA		NA	
Beryllium, Dissolved	4	P	ug/L		NA		NA		NA		NA		NA		NA		NA	
Cadmium, Dissolved	5	P	ug/L		NA		NA		NA		NA		NA		NA		NA	
Calcium, Dissolved	NS		ug/L		NA		NA		NA		NA		NA		NA		NA	
Chromium, Dissolved	100	P	ug/L		NA		NA		NA		NA		NA		NA		NA	
Cobalt, Dissolved	NS		ug/L		NA		NA		NA		NA		NA		NA		NA	
Copper, Dissolved	1300	AL	ug/L		NA		NA		NA		NA		NA		NA		NA	
Iron, Dissolved	300	S	ug/L		NA		NA		NA		NA		NA		NA		NA	
Lead, Dissolved	15	AL	ug/L		NA		NA		NA		NA		NA		NA		NA	
Magnesium, Dissolved	NS		ug/L		NA		NA		NA		NA		NA		NA		NA	
Manganese, Dissolved	50	S	ug/L		NA		NA		NA		NA		NA		NA		NA	
Mercury, Dissolved	2	P	ug/L		NA		NA		NA		NA		NA		NA		NA	
Nickel, Dissolved	100	RE	ug/L		NA		NA		NA		NA		NA		NA		NA	
Potassium, Dissolved	NS		ug/L		NA		NA		NA		NA		NA		NA		NA	
Selenium, Dissolved	50	P	ug/L		NA		NA		NA		NA		NA		NA		NA	
Silver, Dissolved	100	S	ug/L		NA		NA		NA		NA		NA		NA		NA	
Sodium, Dissolved	NS		ug/L		NA		NA		NA		NA		NA		NA		NA	
Thallium, Dissolved	2	P	ug/L		NA		NA		NA		NA		NA		NA		NA	
Vanadium, Dissolved	NS		ug/L		NA		NA		NA		NA		NA		NA		NA	
Zinc, Dissolved	5000	S	ug/L		NA		NA		NA		NA		NA		NA		NA	
Conventional																		
Alkalinity	NS		mg/L		U	10		U	5		U	5		U	5		NA	
Ammonia	NS		mg/L		U	0.1		U	0.1		U	0.1		U	0.1		NA	
Chemical Oxygen Demand	NS		mg/L		U	10		U	10		U	10		U	10		NA	
Chloride	250	S	mg/L		U	0.12		U	0.12		U	0.12		U	0.12		NA	
Hardness as calcium carbonate	NS		mg/L		U	5		U	5		U	5		U	5		NA	
Nitrate as N	10	P	mg/L		U	0.1		U	0.1		U	0.1		U	0.1		NA	
Sulfate	250	S	mg/L		U	0.6		U	0.6		U	0.6		U	0.6		NA	
Total Dissolved Solids	500	S	mg/L		U	10		U	10		U	10		U	10		NA	

Notes:

MCL: Maximum Containment Level

Shading exceeds EPA MCL screening criteria

P: EPA Primary MCL

S: EPA Secondary MCL

AL: EPA Action Level

RE: No MCL but recommended level by EPA

TTHM: Total Trihalomethanes includes the sum of Bromodichloromethane, Bromoform, Dibromochloromethane and Chloroform

ug/L: micrograms per liter

mg/L: milligram per liter

RL: Reporting Limit

Q: Qualifier

NS: No Standard

NA: Not analyzed

U: Compound not detected

J: The concentration is an estimated value.

B: Compound detected in sample and blank

H: Sample analyzed beyond method holding time

F1/F2: MS and/or MSD exceeds control limits