



New Jersey Department of Environmental Protection
Site Remediation Program

Report Certifications for RCRA GPRA 2020, CERCLA, and Federal Facility Sites

These certifications are to be used for reports submitted for RCRA GPRA 2020, CERCLA, and Federal Facility Sites. The Department has developed guidance for report certifications for RCRA GPRA 2020, CERCLA, and Federal Facility Sites under traditional oversight. The "Person Responsible for Conducting the Remediation Information and Certification" is required to be submitted with each report. For those sites that are required or opt to use a Licensed Site Remediation Professional (LSRP) the report must also be certified by the LSRP using the "Licensed Site Remediation Professional Information and Statement". For additional guidance regarding the requirement for LSRPs at RCRA GPRA 2020, CERCLA and Federal Facility Sites see http://www.nj.gov/dep/srp/srra/training/matrix/quick_ref/rcra_cercla_fed_facility_sites.pdf.

Document: "Request for No Further Action Determination for Groundwater at FTMM-14"

PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: William R. Colvin

Representative First Name: William Representative Last Name: Colvin

Title: BRAC Environmental Coordinator

Phone Number: (732) 380-7064

Ext: _____

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Mailing Address: P.O. Box 148

City/Town: Oceanport

State: NJ

Zip Code: 07757

Email Address: william.r.colvin18.civ@mail.mil

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: _____

Date: 04/19/2017

Name/Title: William R. Colvin / BRAC Environmental Coordinator



DEPARTMENT OF THE ARMY

OFFICE OF ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
U.S. ARMY FORT MONMOUTH
P.O. 148
OCEANPORT, NEW JERSEY 07757

19 April 2017

Ms. Linda Range
New Jersey Department of Environmental Protection
Bureau of Case Management
401 East State Street
PO Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028

**SUBJECT: Request for No Further Action Determination for Groundwater at FTMM-14
Fort Monmouth, Oceanport, Monmouth County, New Jersey
PI G000000032**

Attachments:

- A. Previous Correspondence (see list below)
- B. Figure 1 - FTMM-14 Location and Figure 2 - Layout of FTMM-14

Previous Correspondence (provided in Attachment A)

- 1. NJDEP letter to U.S. Army dated 5 February 2015, re: Approval 26 November 2014 Response to Comments on the Final Baseline Groundwater Sampling Report (August 2013)
- 2. NJDEP letter to U.S. Army dated 3 July 2014, re: Final Baseline Groundwater Sampling Report (August 2013)
- 3. Tables 2 and 3 Historical Groundwater Analytical Results and August 2013 Groundwater Data from August 2013 Baseline Groundwater Analytical Detections

Dear Ms. Range:

The Army is requesting a No Further Action (NFA) determination by the New Jersey Department of Environmental Protection (NJDEP) for groundwater at FTMM-14. This request is based on the groundwater data results presented in the Final August 2013 Baseline Groundwater Sampling Report (Baseline Report) submitted to NJDEP in March 2014. NJDEP agreed with the report's recommendations to discontinue groundwater sampling at FTMM-14 (**Attachment A.1**). The following summarizes the information provided in the Baseline Report that supports our request.

Background

FTMM-14 is a landfill (approximately 6.9-acres) located in the central portion of Fort Monmouth's (FTMM's) Main Post (MP) in an area west of Murphy Drive and on the north bank of Husky Brook (**Attachment B**). FTMM-14 is bordered by houses along Gosselin Avenue to the north, by Husky Brook to the south and by Murphy Drive to the east. FTMM-14 was used from 1965 to 1966 as a general-purpose disposal area for building rubble and was later covered with dredged material from Husky Brook.

A long-term groundwater monitoring program began in February 1995. Groundwater sampling was conducted quarterly from June 1997 through August 2011 using a network of up to nine monitoring wells. Groundwater samples collected from May 1997 to August 2004 were analyzed for Target Analyte List (TAL) metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides and PCBs. As agreed with NJDEP, from February 2005 to August 2011 samples were analyzed for VOCs and TAL metals only (12 November 2004 email).

In August 2013, groundwater sampling was conducted at FTMM-14 to re-establish baseline groundwater conditions following temporary suspension of groundwater sampling in late 2011. Groundwater samples were collected from six monitoring wells using passive diffusion bag samplers (PDBS) and analyzed for VOCs. The results indicated that VOCs were not detected above the NJDEP Groundwater Quality Standards (GWQS). These results are documented in the August 2013 Baseline Report.

Groundwater Chemistry

Groundwater data results from November 2009 through August 2011 and the August 2013 sampling event are presented in the tables in **Attachment A.3**. VOCs were not detected above NJDEP GWQS in the samples collected during these sampling events.

Aluminum, antimony, arsenic, cadmium, iron, lead, manganese, nickel, selenium, sodium, and zinc were detected above their respective NJDEP GWQS in the most recent eight quarters of November 2009 through August 2011. These metal exceedances are attributed to background conditions and not to historical site use. The NJDEP agreed to discontinuing groundwater monitoring at FTMM-14 (**Attachment A.2**).

Summary

The 2013 groundwater results demonstrate that VOCs are below the NJDEP GWQS. Although several metals were detected above their respective NJDEP GWQS, the metal concentrations were attributed to background conditions and not historical site use. Based on the groundwater chemistry and the NJDEP's 2014 approval to discontinue sampling at FTMM-14, the Army requests a NFA determination by NJDEP for groundwater at FTMM-14.

The technical point of contact for this matter is Cris Grill who can be reached at 617-449-1583 or cris.grill@parsons.com. I can be reached at (732) 380-7064 or by email at william.r.colvin18.civ@mail.mil.

Sincerely,



William R. Colvin, PMP, CHMM, PG
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth

cc: Linda Range, NJDEP (3 hard copies)
Delight Balducci, HQDA ACSIM (e-mail)
Joseph Pearson, Calibre (e-mail)
James Moore, USACE (e-mail)
Jim Kelly, USACE (e-mail)
Cris Grill, Parsons (e-mail)

Attachment A

**NJDEP letter to U.S. Army dated 5 February 2015, *re: Approval 26 November 2014*
Response to Comments on the Final Baseline Groundwater Sampling Report (August 2013);
NJDEP letter to U.S. Army dated 3 July 2014, re: Final Baseline Groundwater Sampling
Report (August 2013); and Table 2 and Table 3 of Final Baseline Groundwater Sampling
Report (August 2013)**



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
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CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

February 5, 2015

Wanda Green
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Approval

Re: *November 26, 2014 Response to Comments –on the Final Baseline Ground Water Sampling Report (August 2013)*
Fort Monmouth
Monmouth County
PI # G000000032
Activity Number: RPC000001

Dear Ms. Green:

The New Jersey Department of Environmental Protection (Department) has completed a review of the referenced Response to Comments dated November 26, 2014, submitted in response to the Department's comment letter dated July 3, 2014 regarding the Final Baseline Ground Water Sampling Report.

The *Response to Comments* agrees with or acknowledges the Department's comments for areas FTMM-03, FTMM-04, FTMM-05, FTMM-08, FTMM-12, FTMM-14, FTMM-22, FTMM-25, FTMM-53, FTMM-54, FTMM-55, FTMM-56, FTMM-57, FTMM-58, FTMM-59, FTMM-61, FTMM-64, and FTMM-66.

FTMM-18

The Department had indicated low-flow sampling must also be performed if Passive Diffusion Bag Sampling (PDBS) is conducted, for comparison purposes. The *Response to Comments* submittal contends as low-flow sampling has been historically conducted at this area, PDBS sampling only is appropriate. Based upon this reasoning, the Department agrees the performance via PDBS only is acceptable for the ensuing round of ground water sampling. The PDBS results are to be compared to the previous low-flow sampling results and presented in the forthcoming sampling report.

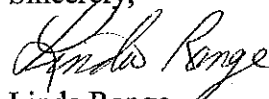
FTMM-68

The Department had expressed concern regarding the use of PDBS for long-term monitoring. FTMM-68 has not been fully characterized, and the use of PDBS for longer term monitoring is acceptable only for well characterized sites, as per the DEP's Field Sampling Procedures

Manual. As per information provided in the *Response to Comments* submittal, a Remedial Investigation to fully characterize the area is to be conducted in the near future using low-flow sampling methodology, and request approval for the use of PDBS to characterize contaminant concentrations in the interim. This is acceptable based on the stipulation that a full remedial investigation is to be performed. The November '14 *Response to Comments* (Section V), however, indicated the Remedial Investigation Workplan for FTMM-68 was awaiting DEP approval. Although some clarification was requested, the proposed remedial activities, soil and ground water, were approved for the FTMM-68 area via letter dated *January 8, 2014*, which addressed the RI/FS Workplan for FTMM-22, FTMM-53, FTMM-59 & FTMM-68.

If you have any questions, please contact me at (609)984-6606, or via email at Linda.Range@dep.nj.gov.

Sincerely,



Linda Range
Bureau of Case Management

cc: Joe Pearson, Calibre
Rick Harrison, FMERA
Joe Fallon, FMERA
Frank Barricelli, RAB



State of New Jersey

CHRIS CHRISTIE
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BOB MARTIN
Commissioner

July 3, 2014

Wanda Green
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Re: Final Baseline Groundwater Sampling Report (August 2013)
Remedial Investigation/Feasibility Study/Decision Documents
Fort Monmouth
Oceanport, Monmouth County
PI G000000032

Dear Ms. Green:

The New Jersey Department of Environmental Protection (Department) has completed review of the referenced report, dated March 2014, received on April 7, 2014. The report was prepared by Parsons Government Services Inc. (Parsons), in support of the Remedial Investigation (RI), Feasibility Study (FS), and Decision Documents project at Fort Monmouth.

A baseline ground water sampling event was conducted at 21 "sites" at the Fort Monmouth property in August 2013. The purpose of the sampling event was to re-establish baseline conditions following suspension of ground water sampling in late 2011, as well as to evaluate Fort Monmouth's long-term ground water sampling program, and the current analytical conditions of the ground water at each site. Sampling methodologies used included low-flow and passive diffusion bag samplers (PDBS). At four sites (FTMM-14, 18, 59, 68), only PDBS sampling was conducted. At three sites (FTMM-05, 22, 58) both low-flow and PDBS samples were obtained for comparison purposes. Fourteen (14) sites were only sampled using low-flow. The report states that PDBS concentrations were consistently biased somewhat low compared to the low-flow concentrations. The report concludes, however, that the PDBS results were still similar to the low-flow results and are considered representative of ground water conditions at the sites. Based on this conclusion, the report states that for future ground water sampling, PDBS will be used for all sites where volatile organic compounds (VOCs) are the sole contaminants of concern. Comments are presented below.

Section 3.1; Table 6; Appendices & associated Tables - *The "background concentrations" submitted in the 1995 Weston report were not accepted by the Department as representative of background conditions for Fort Monmouth. The study was not performed in accordance with Departmental protocol and is not a consideration in our evaluations/determinations. As indicated in Section 3.1, background concentrations are evaluated on a site by site basis.*

FTMM-02 Landfill

Historic sampling at this parcel indicated levels of VOCs above the Ground Water Quality Standard (GWQS); metals were previously determined to be reflective of naturally occurring conditions. The August 2013 sampling of wells using low-flow confirmed the continued exceedance of the GWQS for VOCs. The report recommends VOC sampling of wells M2MW03, M2MW11, M2MW21, M2MW22 and M2MW24 for two additional rounds using PDBS. Well M2MW10 will be monitored as a downgradient sentinel well. Although the proposal is acceptable, for wells in which the saturated screen length exceeds 10 feet, the deployment of multiple PDBS will be required. At any point where a decision is made to terminate ground water sampling at this site, confirmatory sampling using low-flow due to PDBS biasing low as compared to low-flow results at the Fort Monmouth site will be required.

FTMM-03 Landfill

Historic sampling at this parcel revealed GWQS exceedances of vinyl chloride and metals. The August 2013 sampling of wells using low-flow confirmed the continued exceedance of the GWQS for vinyl chloride in well 3MW07. Well 3MW02 was not sampled due to low water column and silty conditions, however, Table 4 of Appendix B recommends sampling of 3MW02 for VOCs and metals. The report attributes the presence of vinyl chloride to leaching of PVC piping from well 3MW07. A temporary well point investigation was conducted in 2009 to delineate the vinyl chloride, the results were non-detect, and abandonment of 3MW07 is recommended. The recommendations are acceptable. However, a figure presenting the locations and sampling results from the 2009 temporary well point investigation must be provided to the Department.

FTMM-04 Landfill

Historic sampling at this parcel revealed GWQS exceedances of various metals. The August 2013 sampling of wells using low-flow confirmed the continued exceedance of the GWQS for metals. The metals are attributed to background conditions, and cessation of ground water sampling is recommended. The recommendation is acceptable. Monitoring wells at this parcel shall be properly abandoned if they are no longer subject to sampling or gaging for water elevation data.

FTMM-05 Landfill

Historic sampling at this parcel revealed GWQS exceedances of PCE, TCE and vinyl chloride, which the August 2013 sampling, using low-flow and PDBS, confirmed. The report recommends annual VOC sampling of wells M5MW11, M5MW16, M5MW20 and M5MW23 using PDBS. The Department finds the proposal to be acceptable. At any point where a decision is made to terminate ground water sampling at this parcel, the Department will require confirmatory sampling using low-flow due to PDBS results at this parcel biased low compared to the low-flow results.

FTMM-08 Landfill

Historic sampling at this parcel revealed GWQS exceedances of pesticides, benzene, PCE and lead. The August 2013 sampling of wells using low-flow confirmed the exceedance of the GWQS for PCE and lead. The well with historic pesticide exceedances (697MW01) could not be located and was not sampled. The report recommends annual ground water sampling of well M8MW11 for VOCs and lead, M8MW12, 15, 16 and 24 for VOCs and M8MW17 and 21 for lead only. Monitoring well 697MW01 will be located and sampled for pesticides, lead and VOCs. The recommendation is acceptable.

FTMM-12 Landfill

Historic sampling at this parcel revealed GWQS exceedances of various metals, including arsenic and lead. Historic exceedances of metals except for lead are attributed to background quality. The August 2013 sampling was conducted for lead analysis only. Lead was not detected. The report recommends discontinuing ground water sampling at this parcel. The Department finds the recommendation to be acceptable. Monitoring wells at this parcel shall be properly abandoned if they are no longer subject to sampling or gaging for water elevation data.

FTMM-14 Landfill

Historic sampling at this parcel revealed no GWQS exceedances of VOCs. The August 2013 sampling of wells using PDBS confirmed that there was no exceedance of the GWQS. The report recommends discontinuing ground water sampling at this parcel. The Department finds the recommendation to be acceptable. Monitoring wells at this parcel shall be properly abandoned if they are no longer subject to sampling or gaging for water elevation data. The Department also notes that on Table 1, well M14MW19 is listed as having 10 feet of total screen length. However, the table also lists the saturated screen length as 13.35 feet. This discrepancy should be clarified.

FTMM-18 Landfill

Historic sampling at this parcel revealed GWQS exceedances of benzene and 1,2-DCA. The August 2013 sampling results of wells using PDBS showed the exceedance of the GWQS for 1,2-DCA in well M18MW22. Well M18MW23 could not be located and was not sampled. The report recommends annual ground water sampling using PDBS for M18MW22 and M18MW23 if it can be located. Every reasonable effort, such as reviewing the NJ State Plane Coordinates of the well, must be made to locate M18MW23. The use of M18MW22 as the sole monitoring well at this parcel will not be acceptable due to the vast difference in historical concentrations between M18MW22 and M18MW23. Historic 2011 benzene concentrations for M18MW23 were 775 ppb and 664 ppb while 2011 concentrations for M18MW22 were 1.81 ppb and 1.65 ppb. The Department cannot approve the use of PDBS sampling only for this parcel. Once M18MW23 is located, the Department can approve the use of both PDBS and low-flow sampling for comparison purposes.

FTMM-22 Former Wastewater Treatment Lime Pit

Historic sampling at this parcel revealed GWQS exceedances of TCE. The August 2013 sampling of wells using low-flow and PDBS confirmed the continued exceedance of the GWQS for TCE in ground water. The report recommends quarterly VOC sampling of wells CW1MW27, CW1MW29, CW1MW31 and CW1MW281 using PDBS. The Department finds the proposal to be acceptable. At any point where a decision is made to terminate ground water sampling at this parcel, the Department will require confirmatory sampling using low-flow due to PDBS results biasing low compared to low-flow results at the Fort Monmouth site.

FTMM-25 Landfill

Historic sampling at this parcel revealed GWQS exceedances of various metals. The August 2013 sampling of wells using low-flow confirmed the continued exceedance of the GWQS for metals. The metals are attributed to background conditions. The report recommends discontinuing ground water sampling at this parcel. The Department finds the recommendation to be acceptable. Monitoring wells at this parcel shall be properly abandoned if they are no longer subject to sampling or gaging for water elevation data.

FTMM-53 Building 699

Historic sampling at this parcel revealed GWQS exceedances of benzene, PCE, TCE, TBA, VOC TICs and lead. The August 2013 sampling of wells using low-flow showed the exceedance of the GWQS for benzene, xylenes, PCE, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene and VOC TICs. The report recommends quarterly VOC sampling of wells 699MW01, 699MW04, 699MW06, 699MW09, 699MW16, 699RW03, 699RW05 and 699RW11 using PDBS. The Department finds the proposal to be acceptable. For wells in which the saturated screen length exceeds 10 feet, the deployment of multiple PDBS will be required. At any point where a

decision is made to terminate ground water sampling at this parcel, the Department will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.

FTMM-54 Building 296

Historic sampling at this parcel revealed GWQS exceedances of benzene, lead and arsenic. The metals are attributed to background conditions. The August 2013 sampling of wells using low-flow showed an exceedance of the GWQS for benzene. The report recommends annual VOC sampling of wells 269MW04 and 296MW06 using PDBS. The Department finds the proposal to be acceptable. For wells in which the saturated screen length exceeds 10 feet, the deployment of multiple PDBS will be required. At any point where a decision is made to terminate ground water sampling at this parcel, the Department will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.

FTMM-55 Building 290

Historic sampling at this parcel revealed GWQS exceedances of arsenic and lead. The August 2013 sampling of wells using low-flow confirmed the continued exceedance of the GWQS for lead. The metals are attributed to background conditions. The report recommends discontinuing ground water sampling at this parcel. The Department finds the recommendation to be acceptable. Monitoring wells at this parcel shall be properly abandoned if they are no longer subject to sampling or gaging for water elevation data.

FTMM-56 Building 80

Historic sampling at this parcel revealed GWQS exceedances of chlordane, arsenic, lead and cadmium. The August 2013 sampling of wells was conducted for lead only using low-flow. There were no exceedances of lead. The report recommends one additional sampling round of well 80MW02 for chlordane and 80MW05 for lead. The Department finds the recommendation for well 80MW02 to be acceptable. The Department disagrees with the recommendation to sample well 80MW05 for lead only. The last low-flow sampling event in August 2011 had lead, arsenic and cadmium exceeding both the GWQS and background concentrations. Well 80MW05 shall be sampled during the next round for TAL metals.

FTMM-57 Building 108

Historic sampling at this parcel revealed GWQS exceedances of lead. In the August 2013 sampling event, there were no exceedances of lead in ground water. The report recommends two additional sampling rounds of well 108MW04 for lead. The Department finds the recommendation acceptable.

FTMM-58 Building 2567

Historic sampling at this parcel revealed GWQS exceedances of TBA in wells 2567MW01 and 2567MW03. The August 2013 sampling results using low-flow and PDBS were below the GWQS for TBA. The report recommends two annual sampling events for TBA analyses of wells 2567MW01 and 2567MW03 using low-flow. The Department finds the proposal to be acceptable.

FTMM-59 Building 1122

Historic sampling at this parcel revealed no GWQS exceedances for VOCs. The August 2013 sampling results of wells using PDBS showed no exceedance of VOCs. The text of the report recommends VOC sampling of well 1122MW07 for one additional sampling round to confirm the 2013 results because August 2013 was the first time this well was sampled. The Department finds the proposal to be acceptable. The Department also notes that there is a discrepancy between the recommendation in the text and the recommendation in Table 7. Table 7 recommends that sampling at this parcel be discontinued. Table 7 shall be amended to indicate well 1122MW07 will be sampled for VOCs using PDBS methodology.

FTMM-61 Building 283

Historic sampling at this parcel revealed GWQS exceedances of metals, benzene and VOC TICs in 283MW02. The August 2013 sampling of wells using low-flow for VOCs and lead showed no exceedances. The report recommends VOC sampling of well 283MW02 for one additional sampling round using PDBS methodology to confirm the 2013 results. The Department finds the proposal to be conditionally acceptable. If the saturated screen length exceeds 10 feet, the deployment of multiple PDBS will be required. If a decision is made to terminate ground water sampling at this parcel based on PDBS results, the Department will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.

FTMM-64 Building 812

Historic sampling at this parcel revealed GWQS exceedances of benzene, vinyl chloride and metals. The August 2013 sampling of wells using low-flow for VOCs and lead showed no exceedances. The report recommends VOC sampling of well 812MW04 for one additional sampling round using PDBS methodology to confirm the 2013 results (however Section 5.0 recommends sampling be continued on an annual basis). The Department finds the proposal to be conditionally acceptable. If the saturated screen length exceeds 10 feet, the deployment of multiple PDBS will be required. If a decision is made to terminate ground water sampling at this

parcel based on PDBS results, the Department will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.

FTMM-66 Building 886

Historic sampling at this parcel revealed GWQS exceedances of benzene, VOC TICs, arsenic and lead. The August 2013 sampling results from wells using low-flow showed the exceedance of the GWQS for SVOC TICs. The report recommends that sampling at this parcel be discontinued. The Department finds the recommendation unacceptable. Total SVOC TICs exceeded the GWQS of 500 ppb in wells 886RW01 and 886RW06. Ground water monitoring of wells 886RW01, 886RW06 and 886RW08 shall continue for SVOC+TICs using low-flow methodology.

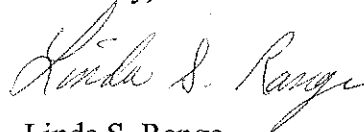
FTMM-68 Building 700

There are no historic sampling results for this parcel. The August 2013 sampling results of wells using PDBS showed the exceedance of the GWQS for PCE, TCE, cis-1,2-DCE and vinyl chloride in wells 565MW01 and 565MW01D. The report recommends quarterly ground water sampling for VOC+TICs using PDBS for these 2 wells. The Department agrees with the recommendation of quarterly sampling, however, has concerns regarding the use of PDBS for long-term monitoring at this parcel. Unlike the other Fort Monmouth parcels, there are no historical ground water sampling data for comparison with the PDBS results. The DEP's Field Sampling Procedures Manual states that "the intended application of Passive Diffusion Bag Samplers (PDBS) is for long-term monitoring of volatile organic compounds (VOCs) in ground water at well-characterized sites." The Department would find long-term sampling of the wells using PDBS acceptable if low-flow sampling is conducted concurrently once or twice for comparison.

Finally, each of the above comments speak only to the ground water findings and recommendations included in the referenced submittal, rather than to the ground water at the entire site.

Please contact this office if you have any questions.

Sincerely,



Linda S. Range

C: Joe Pearson, Calibre
Rick Harrison, FMERA
Julie Carver, Matrix
Frank Barricelli
Daryl Clark, BGWPA

Table 2
Historical Groundwater Analytical Results
Site FTMM-14
Fort Monmouth, New Jersey

				M14MW18			M14MW19																							
Round No.	NJDEP GWQS	USEPA MCL	Weston 1995 Background (Main Post)	LF1	LF2	LF3	46	47	48	48 Dup	49	49 Dup	50	51	51 Dup	52	52 Dup	52												
Date Collected				3/3/2011	5/11/2011	8/2/2011	3/18/2008	5/19/2008	8/14/2008	8/14/2008	10/30/2008	10/30/2008	3/31/2009	6/17/2009	6/17/2009	9/10/2009	9/10/2009	11/20/2009												
ANALYTE/Lab ID				1108005	1120111	1132005	80089.04	80167.04	80299.04	80299.03	80395.04	80395.03	90139.04	90242.04	90242.03	90375.03	90375.02	90452.04												
Volatile Organic Compounds (µg/L)																														
1,4-Dichlorobenzene	75	75	--	<0.15	<0.15	<0.26	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Acetone	6000	NLE	--	<0.32	<0.32	<7.6	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Carbon disulfide	700	NLE	--	<0.12	<0.12	<0.18	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Chlorobenzene	50	100	--	<0.12	<0.12	<0.22	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Cyclohexane	100.0	NLE	--	NA	NA	<0.29	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Methylcyclohexane	NLE	NLE	--	NA	NA	<0.18	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA			
Methylene chloride	3	5	--	<0.26	<0.26	<0.20	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
TICs*	500	NLE	--	ND	ND	0	ND		6	J	ND		ND		ND		ND		ND		ND		ND		ND		ND			
Metals (µg/L)																														
Aluminum	200	NLE	121000	<200	209	2650	94.7	ER	1450		ND		263		192		ND		85.1	ER	95.9	ER	60.6		96.4	ER	36.1	ER		
Antimony	6	6	20.70	<6.0	<6.0	<6.0	ND		ND		ND		ND		ND		12		3.05	ER	1.67	ER	ND		ND		ND			
Arsenic	3	10	89.30	11.2	<3.0	9.2	ND		ND		2.97	ER	ND		ND		32.4		14.6		16.3		11.2		9.69		1.03	ER		
Barium	6000	2000	699.00	<200	<200	<200	32.5		25.3		16.8		17.5		61.1		61.2		47.7		52.4		58.1		45		55.7		72.2	
Beryllium	1	4	2.10	<1.0	<1.0	<1.0	ND		0.253	ER	ND		ND		0.112	ER	ND		ND		ND		ND		ND		ND			
Cadmium	4	5	9.50	<3.0	<3.0	<3.0	ND		1.08	ER	1.51	ER	1.42	ER	ND		ND		ND		ND		0.227	ER	0.573	ER	1.08	ER	ND	
Calcium	NLE	NLE	45400.00	6830	<5000	5270	18900		11700		17500		18000		16100		16100		21700		15300		14900		20600		21200		18900	
Chromium	70	100	191.00	<10	<10	35.2	ND		17.8		0.372	ER	0.511	ER	2.08	ER	1.49	ER	1.32	ER	2.23	ER	2.36	ER	ND		ND		1.81	ER
Cobalt	NLE	NLE	18.30	<50	<50	<50	ND		0.198	ER	ND		ND		0.594	ER	0.63	ER	ND		ND		ND		ND		ND		ND	
Copper	1300	1300	65.60	<10	<10	<10	7.19		4.4	ER	ND		ND		6.21		4.79	ER	ND		7.03		7.5		ND		ND		ND	
Iron	300	NLE	431000	5490	5420	12300	19800		8680		11200		11600		12200		11500		19000		14500		14600		13900		14600		11500	
Lead	5	15	22.70	<3.0	<3.0	4.8	ND		10.2		ND		ND		2.73	ER	2.01	ER	6.67		3.97	ER	6.79		ND		4.72	ER	ND	
Magnesium	NLE	NLE	62700	<5000	<5000	<5000	2580		2120		2510		2620		2450		2460		2970		2310		2260		2800		2840		2970	
Manganese	50	NLE	331	26.1	<15	27.3	98.9		74.3		84.1		88.9		182		185		151		115		116		126		133		132	
Mercury	2	2	0.26	<0.20	<0.20	<0.20	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Nickel	100	NLE	187	<10	<10	<10	ND		1.71	ER	0.506	ER	ND		1	ER	0.729	ER	ND		3.55	ER	3.62	ER	ND		ND		2.62	ER
Potassium	NLE	NLE	137000	<10000	<10000	<10000	6320		5230		6410		6640		4150		4290		5470		4410		4210		6380		6300		4890	
Selenium	40	50	29.60	<10	<10	<10	ND		ND		ND		ND		ND		ND		33.6		ND		7.08	ER	12.7		10.2		ND	
Silver	40	NLE	ND	<10	<10	<10	ND		ND		2.41	ER	2.25	ER	ND		ND		ND		0.591		0.604	ER	ND		ND		ND	
Sodium	50000	NLE	21500	<10000	<10000	<10000	5300		3330		6790		7240		4750	ER	4230	ER	5840		3880		3950	ER	5860		5300		5500	
Thallium	2	2	5.50	<2.0	<2.0	<2.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Vanadium	NLE	NLE	108	<50	<50	<50	ND		8.06		0.731	ER	0.894	ER	2.17	ER	1.69	ER	0.8		0.909	ER	0.992	ER	1.98	ER	2.03		2.6	ER
Zinc	2000	NLE	233	<20	<20	<20	53.9		44.7		ND		ND		22.3	ER	21.4	ER	13.2		103		112		7.67	ER	11.8		70.3	

Notes:

Shaded cells= concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP GWQS = Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

USEPA MCL = U.S.Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low flow sampling method used to collect sample

< = Analyte does not exceed the detection limit shown

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)

NA = Not analyzed

ND = Not detected

NLE = No limit established

ER = Estimated Result

Table 2
Historical Groundwater Analytical Results
Site FTMM-14
Fort Monmouth, New Jersey

Round No.	NJDEP GWQS	USEPA MCL	Weston 1995 Background (Main Post)	52 Dup	LF1		LF2		LF2 Dup		LF3		LF4		LF4 Dup		LF5	LF6	LF6 Dup		LF7	46	47	48	49				
Date Collected				11/20/2009	3/31/2010		6/4/2010		6/4/2010		8/26/2010		12/9/2010		12/9/2010		3/3/2011	5/11/2011	5/11/2011	8/2/2011	3/18/2008	5/19/2008	8/14/2008	10/30/2008					
ANALYTE/Lab ID				90452.03	10114.07		10237.04		10237.03		1036304		1054104		1054103		1108008	1120104	1120103	1132006	80089.05	80167.05	80299.05	80395.05					
Volatile Organic Compounds (µg/L)																													
1,4-Dichlorobenzene	75	75	--	ND		ND		ND		ND		<0.15		<0.15		<0.15		<0.15	<0.15	<0.15	<0.26	ND		ND		ND		ND	
Acetone	6000	NLE	--	ND		ND		ND		ND		<0.32		<0.32		<0.32		<0.32	<0.32	<0.32	<7.6	ND		ND		2.8		ND	
Carbon disulfide	700	NLE	--	ND		ND		ND		ND		<0.12		<0.12		<0.12		<0.12	<0.12	<0.12	<0.18	ND		ND		ND		ND	
Chlorobenzene	50	100	--	ND		ND		ND		ND		<0.12		<0.12		<0.12		<0.12	<0.12	<0.12	<0.22	ND		ND		ND		ND	
Cyclohexane	100.0	NLE	--	NA		NA		ND		ND		NA		NA		NA		NA	NA	NA	<0.29	NA		NA		NA		NA	
Methylcyclohexane	NLE	NLE	--	NA		NA		NA		NA		NA		NA		NA		NA	NA	NA	<0.18	NA		NA		NA		NA	
Methylene chloride	3	5	--	ND		ND		ND		ND		<0.26		<0.26		<0.26		<0.26	<0.26	<0.26	<0.20	ND		ND		ND		ND	
TICs*	500	NLE	--	ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	0	ND		4	J	ND		ND	
Metals (µg/L)																													
Aluminum	200	NLE	121000	47.2	ER	319		15.4	ER	ND		<100		<100		<100		<200	<200	<200	<200	78.5	ER	ND		1050		51.3	ER
Antimony	6	6	20.70	ND		4.94	ER	ND		8.64	ER	<10		<10		<10		<6.0	<6.0	<6.0	<6.0	ND		ND		ND		ND	
Arsenic	3	10	89.30	0.68	ER	0.89	ER	ND		ND		1.83	ER	0.77	ER	1.06	ER	<3.0	<3.0	<3.0	<3.0	2.74	ER	4.5	ER	6.1		3.27	ER
Barium	6000	2000	699.00	90.7		12.1		9.41		8.56		13.1		12.8		13.2		<200	<200	<200	<200	18.8		ND		92.1		19.8	
Beryllium	1	4	2.10	ND		0.047	ER	0.108	ER	0.086	ER	<0.5		<0.5		<0.5		<1.0	<1.0	<1.0	<1.0	ND		1.2	ER	0.145	ER	ND	
Cadmium	4	5	9.50	ND		ND		ND		0.527	ER	0.663	ER	<2		0.431	ER	<3.0	<3.0	<3.0	<3.0	0.902	ER	0.586	ER	2.13		ND	
Calcium	NLE	NLE	45400.00	21400		12700		13700		12400		19700		15800		16400		15500	17800	19200	27400	30800		27.6		35500		36600	
Chromium	70	100	191.00	1.09	ER	3.64	ER	ND		ND		<5		<5		0.69	ER	<10	<10	<10	<10	0.315	ER	ND		4.07	ER	ND	
Cobalt	NLE	NLE	18.30	ND		ND		ND		ND		<2		<2		<2		<50	<50	<50	<50	ND		0.898	ER	ND		ND	
Copper	1300	1300	65.60	ND		1.09	ER	ND		ND		1.6	ER	<5		<5		<10	<10	<10	<10	4.99	ER	ND		ND		ND	
Iron	300	NLE	431000	13600		8110		10900		9950		14400		11900		12200		11900	19000	19100	21300	2850		335	ER	8760		8210	
Lead	5	15	22.70	3.11	ER	3.65	ER	ND		ND		<5		<5		2.79	ER	<3.0	<3.0	<3.0	<3.0	ND		ND		ND		ND	
Magnesium	NLE	NLE	62700	3170		1950		1970		1810		2930		2090		2170		<5000	<5000	<5000	<5000	1850		13.9	ER	2440		3240	
Manganese	50	NLE	331	154		58.9		57.7		53.5		98.7		70.4		73		69.6	115	128	213	123		ND		59.7		47.7	
Mercury	2	2	0.26	ND		ND		0.08	ER	0.06	ER	<0.5		<0.5		<0.5		<0.20	<0.20	<0.20	<0.20	ND		ND		ND		ND	
Nickel	100	NLE	187	2.42	ER	1.61	ER	ND		ND		0.828	ER	<5		<5		<10	<10	<10	<10	1.92	ER	ND		1.68	ER	ND	
Potassium	NLE	NLE	137000	4890		5890		5610		5010		6340		7260		7450		<10000	<10000	<10000	<10000	3360		ND		5490		5840	
Selenium	40	50	29.60	ND		17.8	ER	NR		NR		41.2		<5		<5		<10	<10	<10	<10	ND		6.8	ER	ND		ND	
Silver	40	NLE	ND	ND		ND		2.13	ER	2.39		2.46	ER	1.75	ER	0.896	ER	<10	<10	<10	<10	1.47	ER	ND		2.01	ER	ND	
Sodium	50000	NLE	21500	5870		4160	ER	5120		4120		6210		2440	ER	5010		<10000	<10000	<10000	<10000	5670		838	ER	6720		6050	
Thallium	2	2	5.50	ND		ND		ND		ND		<5		<5		<5		<2.0	<2.0	<2.0	<2.0	ND		4.94	ER	ND		ND	
Vanadium	NLE	NLE	108	2.8	ER	1.32	ER	ND		ND		<5		0.583	ER	0.789	ER	<50	<50	<50	<50	0.754	ER	ND		2.57	ER	0.566	ER
Zinc	2000	NLE	233	65.4		53		ND		ND		1.54	ER	<50		<50		<20	20.8	21.3	<20	8.04	ER	ND		4.87	ER	3.92	ER

Notes:

Shaded cells= concentrations exceed the NJDEP GWQS

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LF = Low flow sampling method used to collect sample

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Table 2
Historical Groundwater Analytical Results
Site FTMM-14
Fort Monmouth, New Jersey

				M14MW20																													
Round No.	NJDEP GWQS	USEPA MCL	Weston 1995 Background (Main Post)	50		50 Dup		51		52		53		LF1		LF2		LF2 Dup		LF3		LF4		LF5		LF6		LF7		46		47	
Date Collected				3/31/2009		3/31/2009		6/17/2009		9/10/2009		11/20/2009		3/31/2010		6/7/2010		6/7/2010		8/26/2010		12/9/2010		3/3/2011		5/11/2011		8/2/2011		3/18/2008		5/19/2008	
ANALYTE/Lab ID				90139.05		90139.03		90242.05		90375.04		90452.05		10114.08		10240.04		10240.03		1036305		1054105		1108008		1120105		1132007		80089.06		80167.06	
Volatile Organic Compounds (µg/L)																																	
1,4-Dichlorobenzene	75	75	--	ND		ND		ND		ND		ND		ND		ND		<0.15		<0.15		<0.15		<0.15		<0.26		ND		ND			
Acetone	6000	NLE	--	ND		ND		ND		ND		ND		ND		ND		<0.32		<0.32		<0.32		<0.32		<7.6		ND		ND			
Carbon disulfide	700	NLE	--	ND		ND		ND		ND		ND		ND		ND		<0.12		<0.12		<0.12		<0.12		<0.18		ND		ND			
Chlorobenzene	50	100	--	ND		ND		ND		ND		ND		ND		ND		<0.12		<0.12		<0.12		<0.12		<0.22		ND		ND			
Cyclohexane	100.0	NLE	--	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		<0.29		NA		NA			
Methylcyclohexane	NLE	NLE	--	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		<0.18		NA		NA			
Methylene chloride	3	5	--	ND		ND		ND		ND		ND		ND		ND		<0.26		<0.26		<0.26		<0.26		<0.20		ND		ND			
TICs*	500	NLE	--	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0		ND		ND			
Metals (µg/L)																																	
Aluminum	200	NLE	121000	ND		ND		ND		56.5	ER	ND		23.5	ER	ND		ND		<100		<100		<200		<200		<200		60.8	ER	ND	
Antimony	6	6	20.70	9.38	ER	8.68	ER	1.88	ER	ND		ND		6.67	ER	4.97	ER	7.12	ER	<10		5.38	ER	<6.0		<6.0		<6.0		ND		ND	
Arsenic	3	10	89.30	54.2		47.5		24.6		22.7		1.92	ER	ND		ND		ND		1.75	ER	2.5	ER	<3.0		3.8		8.7		ND		2.88	ER
Barium	6000	2000	699.00	25.4		42.3		15.9		18.9		96.9		8.84		10.2		10.3		11.3		8.1		<200		<200		<200		39.7		34.8	
Beryllium	1	4	2.10	ND		ND		ND		ND		ND		ND		0.065	ER	0.058	ER	<0.5		<0.5		<1.0		<1.0		<1.0		ND		ND	
Cadmium	4	5	9.50	ND		ND		0.621	ER	ND		ND		ND		ND		ND		<2		<2		<3.0		<3.0		<3.0		0.227	ER	0.307	ER
Calcium	NLE	NLE	45400.00	27900		28800		30200		33700		83600		29100		30400		31000		30600		29200		33600		26100		31000		54100		40200	
Chromium	70	100	191.00	1.22	ER	0.873	ER	0.476	ER	ND		ND		ND		ND		ND		<5		<5		<10		<10		<10		ND		0.692	ER
Cobalt	NLE	NLE	18.30	ND		ND		0.445	ER	ND		0.458	ER	ND		ND		ND		<2		<2		<50		<50		<50		ND		ND	
Copper	1300	1300	65.60	2.9	ER	2.18	ER	11.8		ND		ND		ND		ND		ND		2.51	ER	<5		<10		12.5		<10		0.908	ER	ND	
Iron	300	NLE	431000	6730		8400		5850		5890		29000		515		532		527		1310		837		588		5140		9230		1330		1760	
Lead	5	15	22.70	5.46		ND		1.79	ER	ND		2.93	ER	ND		ND		ND		<5		<5		<3.0		<3.0		<3.0		ND		ND	
Magnesium	NLE	NLE	62700	2390		2410		2370		3050		18400		1690		1760		1760		1980		1940		<5000		<5000		<5000		7040		5370	
Manganese	50	NLE	331	129		197		68.3		45.3		290		20.9		57.1		57.5		44.2		28.6		<15		128		45.5		122		121	
Mercury	2	2	0.26	ND		ND		ND		ND		ND		ND		0.09	ER	0.08	ER	<0.5		<0.5		<0.20		<0.20		<0.20		ND		ND	
Nickel	100	NLE	187	ND		ND		1.64	ER	ND		8.11		ND		ND		ND		0.471	ER	<5		<10		<10		<10		ND		ND	
Potassium	NLE	NLE	137000	4150		4170		4940		6380		9930		5230		4920		5070		4610		5800		<10000		<10000		<10000		8620		7380	
Selenium	40	50	29.60	51.2		60.2		8.42	ER	24.1		ND		38.1		NR		NR		62.2		<5		<10		<10		<10		ND		4.88	ER
Silver	40	NLE	ND	ND		ND		ND		ND		1.53	ER	ND		ND		ND		<5		<5		<10		<10		<10		2.04	ER	ND	
Sodium	50000	NLE	21500	11400		11500		7840		5890		160000		5140		4820		3510		5720		4720	ER	<10000		10500		<10000		12500		ND	
Thallium	2	2	5.50	ND		ND		ND		ND		ND		ND		ND		ND		<5		<5		<2.0		<2.0		<2.0		ND		ND	
Vanadium	NLE	NLE	108	1.31	ER	1.15	ER	0.213	ER	1.33	ER	6.1		ND		ND		ND		<5		<5		<50		<50		<50		ND		0.482	ER
Zinc	2000	NLE	233	5.84	ER	5.53		ND		3.7	ER	ND		ND		ND		ND		<50		<50		<20		<20		<20		5.76		ND	

Notes:

Shaded cells= concentrations exceed the NJDEP GWQS

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Table 2
Historical Groundwater Analytical Results
Site FTMM-14
Fort Monmouth, New Jersey

				M14MW21																												
Round No.	NJDEP GWQS	USEPA MCL	Weston 1995 Background (Main Post)	47 Dup	48		49		50		51		52		53		LF1		LF2		LF3		LF4		LF5		LF6		LF7		LF7 Dup	46
Date Collected				5/19/2008	8/14/2008		10/30/2008		3/31/2009		6/17/2009		9/10/2009		11/20/2009		3/31/2010		6/7/2010		8/26/2010		12/9/2010		3/4/2011		5/11/2011		8/3/2011		8/3/2011	3/18/2008
ANALYTE/Lab ID				80167.03	80299.06		80395.06		90139.06		90242.06		90375.05		90452.06		10114.05		10240.05		1036306		1054106		1108304		1120106		1132304		1132303	80089.07
Volatile Organic Compounds (µg/L)																																
1,4-Dichlorobenzene	75	75	--	ND		ND		ND		ND		ND		ND		ND		ND		<0.15		<0.15		<0.15		<0.15		<0.26		<0.26	ND	
Acetone	6000	NLE	--	ND		ND		ND		ND		ND		ND		ND		ND		<0.32		<0.32		<0.32		<0.32		<7.6		<7.6	ND	
Carbon disulfide	700	NLE	--	ND		ND		ND		ND		ND		ND		ND		ND		<0.12		<0.12		<0.12		<0.12		<0.18		<0.18	ND	
Chlorobenzene	50	100	--	ND		ND		ND		ND		ND		ND		ND		ND		<0.12		<0.12		<0.12		<0.12		<0.22		<0.22	ND	
Cyclohexane	100.0	NLE	--	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		<0.29		<0.29	NA	
Methylcyclohexane	NLE	NLE	--	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		<0.18		<0.18	NA	
Methylene chloride	3	5	--	ND		ND		ND		ND		ND		ND		ND		ND		<0.26		<0.26		<0.26		<0.26		<0.20		<0.20	ND	
TICs*	500	NLE	--	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	
Metals (µg/L)																																
Aluminum	200	NLE	121000	ND		ND		51.6	ER	ND		ND		55.1		ND		159		ND		<100		<100		<200		<200		<200	<200	65.9
Antimony	6	6	20.70	ND		ND		ND		9.71	ER	ND		ND		ND		12.2		6.5	ER	<10		<10		<6.0		<6.0		<6.0	<6	ND
Arsenic	3	10	89.30	ND		3.87	ER	ND		47.3		21.7		17.8		0.75	ER	1.04	ER	ND		<5		0.67	ER	<3.0		<3.0		<3	<3	ND
Barium	6000	2000	699.00	32.8		27		97.9		71.9		29.3		29		51.9		14.4		26.7		29.3		22.8		<200		<200		<200	<200	33.7
Beryllium	1	4	2.10	ND		ND		ND		ND		ND		ND		ND		ND		0.065	ER	<0.5		<0.5		<1.0		<1.0		<1.0	<1	ND
Cadmium	4	5	9.50	0.381	ER	0.523	ER	ND		ND		0.332	ER	ND		ND		0.622	ER	ND		<2		<2		<3.0		<3.0		<3.0	<3	ND
Calcium	NLE	NLE	45400.00	38000		33600		95000		36500		34400		30800		60200		107000		29100		31900		31900		34800		34400		31500	31100	47100
Chromium	70	100	191.00	1.04	ER	1.16	ER	ND		1.25	ER	ND		ND		ND		ND		ND		<5		<5		<10		<10		<10	<10	ND
Cobalt	NLE	NLE	18.30	ND		ND		0.344	ER	ND		ND		ND		ND		ND		ND		<2		<2		<50		<50		<50	<50	ND
Copper	1300	1300	65.60	ND		ND		ND		ND		ND		ND		ND		3.29	ER	ND		2.14	ER	<5		<10		<10		<10	<10	1.53
Iron	300	NLE	431000	1670		1610		4780		5220		2050		2200		3660		430		2400		2300		959		1730		2370		2420	2590	7840
Lead	5	15	22.70	ND		ND		ND		ND		ND		ND		ND		ND		ND		<5		<5		<3.0		<3.0		<3.0	<3	ND
Magnesium	NLE	NLE	62700	5120		4420		19500		4860		4910		5010		9820		12100		4880		5350		4180		<5000		<5000		<5000	<5000	3760
Manganese	50	NLE	331	114		102		264		115		115		117		198		13.8		102		110		96.5		119		108		105	103	112
Mercury	2	2	0.26	ND		ND		ND		ND		ND		ND		ND		ND		0.12	ER	<0.5		<0.5		<0.20		<0.20		<0.20	<0.2	ND
Nickel	100	NLE	187	ND		ND		ND		ND		ND		ND		0.745	ER	17.3		ND		<5		<5		<10		<10		<10	<10	ND
Potassium	NLE	NLE	137000	7060		7650		11800		6790		8470		8390		10500		2840		7480		7630		7690		<10000		<10000		<10000	<1000	9910
Selenium	40	50	29.60	5.44	ER	3.57	ER	ND		72.6		6.51	ER	31.1		ND		86.7		NR		62.5		<5		<10		<10		<10	<10	ND
Silver	40	NLE	ND	ND		1.17	ER	ND		ND		ND		ND		0.993	ER	6.02		ND		0.778	ER	<5		<10		<10		<10	<10	ND
Sodium	50000	NLE	21500	16900		17800		188000		11800		19600		15600		77500		10600		11300		12500		5700		<10000		<10000		15400	15400	9670
Thallium	2	2	5.50	ND		ND		ND		ND		ND		ND		ND		ND		ND		<5		<5		<2.0		<2.0		<2.0	<2	ND
Vanadium	NLE	NLE	108	0.592	ER	1.28	ER	1.01	ER	0.717	ER	ND		0.911	ER	1.62	ER	0.97	ER	ND		<5		<5		<50		<50		<50	<50	ND
Zinc	2000	NLE	233	ND		ND		5.96	ER	ND		3.67	ER	2.6	ER	ND		19.2	ER	ND		<50		<50		<20		<20		<20	<20	9.45

Notes:

Shaded cells= concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP GWQS = Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

USEPA MCL = U.S.Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low flow sampling method used to collect sample

< = Analyte does not exceed the detection limit shown

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)

NA = Not analyzed

ND = Not detected

NLE = No limit established

ER = Estimated Result

Table 2
Historical Groundwater Analytical Results
Site FTMM-14
Fort Monmouth, New Jersey

				M14MW22																													
Round No.	NJDEP GWQS	USEPA MCL	Weston 1995 Background (Main Post)	47		48		49		50		51		52		53		LF1		LF2		LF3		LF4		LF5		LF6		LF7		35	
Date Collected				5/19/2008		8/14/2008		10/30/2008		3/31/2009		6/17/2009		9/10/2009		11/20/2009		3/31/2010		6/7/2010		8/27/2010		12/9/2010		3/3/2011		5/11/2011		8/3/2011		3/18/2008	
ANALYTE/Lab ID				80167.07		80299.07		80395.07		90139.07		90242.07		90375.06		90452.07		10114.09		10240.08		1036505		1054109		1108007		1120109		1132304		80089.08	
Volatile Organic Compounds (µg/L)																																	
1,4-Dichlorobenzene	75	75	--		ND		0.65	J	0.74	J	ND		ND		ND		0.61		ND		ND		<0.15		<0.15		<0.15		<0.15		0.81	J	ND
Acetone	6000	NLE	--		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.32		<0.32		<0.32		<0.32		<7.6		ND
Carbon disulfide	700	NLE	--		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.12		<0.12		<0.12		<0.12		<0.18		ND
Chlorobenzene	50	100	--		ND		5.56		4.6		1.34	ER	ND		1.84		5.21		0.85		ND		<0.12		<0.12		<0.12		0.23	J	5.8		ND
Cyclohexane	100.0	NLE	--		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		3	J	NA
Methylcyclohexane	NLE	NLE	--		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		1.8	J	NA
Methylene chloride	3	5	--		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.26		<0.26		<0.26		<0.26		<0.2		ND
TICs*	500	NLE	--		ND		16		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
Metals (µg/L)																																	
Aluminum	200	NLE	121000	ER	ND		ND		95.9	ER	22.4	ER	ND		41	ER	ND		26.6	ER	ND		390		710		379		377		<200		261
Antimony	6	6	20.70		ND		ND		2.93	ER	21.8		4.92	ER	ND		ND		14.3		ND		22.5		6.27	ER	<6.0		<6.0		<6		ND
Arsenic	3	10	89.30		3.33	ER	4.02	ER	ND		52.1		28.1		22.7		0.97	ER	ND		ND		1.71	ER	1.46	ER	<3.0		4		<3		7.63
Barium	6000	2000	699.00		41.7		143		346		184		213		156		393		29.4		16.6		219		59.5		<200		<200		<200		203
Beryllium	1	4	2.10		ND		ND		ND		ND		ND		ND		ND		ND		0.052	ER	0.324	ER	0.593		<1.0		<1.0		<1		ND
Cadmium	4	5	9.50		0.665	ER	2.5		ND		ND		0.743	ER	1.21	ER	0.521	ER	ND		ND		145		20.1		<3.0		<3.0		<3		0.777
Calcium	NLE	NLE	45400.00		43400		68300		103000		69300		75700		63600		98300		47500		40100		15500		37500		37600		38600		66100		45000
Chromium	70	100	191.00		0.814	ER	0.561	ER	ND		1.05	ER	ND		ND		ND		ND		ND		<5		<5		<10		<10		<10		0.329
Cobalt	NLE	NLE	18.30		ND		ND		5.05		0.65		0.194	ER	ND		ND		ND		ND		51.2		15.7		<50		<50		<50		1.98
Copper	1300	1300	65.60	ER	ND		ND		ND		ND		1.39	ER	ND		ND		ND		ND		115		47.3		17.5		47.7		<10		60.6
Iron	300	NLE	431000		6110		21800		45800		51100		37300		21300		47300		3450		79.4	ER	166	ER	4050		1930		15500		20500		25300
Lead	5	15	22.70		ND		ND		ND		9.96		ND		ND		2.41	ER	ND		ND		9.32		8.05		4.7		5.9		<3		1.19
Magnesium	NLE	NLE	62700		3620		6060		23600		9700		7770		6030		20800		3470		2780		110000		16500		<5000		5540		8740		7680
Manganese	50	NLE	331		97.8		242		600		520		328		231		550		53.3		13.8		892		396		32.7		196		292		239
Mercury	2	2	0.26		ND		ND		ND		ND		ND		ND		ND		ND		0.09	ER	0.21	ER	<0.5		<0.20		<0.20		<0.2		ND
Nickel	100	NLE	187		1.11	ER	0.643	ER	11.3		ND		0.518	ER	ND		6.02		ND		ND		205		49.6		<10		<10		<10		7.11
Potassium	NLE	NLE	137000		18200		6600		10000		6650		7720		6350		10300		5720		4880		22800		6890		<10000		<10000		<10000		6240
Selenium	40	50	29.60		ND		ND		ND		42.5		9.71	ER	33.2		ND		47.6		NR		107		<5		<10		<10		<10		ND
Silver	40	NLE	ND		0.568	ER	4.08	ER	ND		ND		ND		ND		ND		1.75	ER	ND		<5		2.8	ER	<10		<10		<10		ND
Sodium	50000	NLE	21500		11000		10400		153000		39200		17900		12700		134000		5060		3900		791000		70800		<10000		27900		38000		16700
Thallium	2	2	5.50		ND		ND		ND		ND		ND		ND		ND		1.74	ER	ND		<5		<5		<2.0		<2.0		<2		ND
Vanadium	NLE	NLE	108		0.757	ER	0.786	ER	0.796	ER	4.3	ER	ND		3.05	ER	8.65		ND		ND		0.667	ER	0.948	ER	<50		<50		<50		1.72
Zinc	2000	NLE	233	ER	3.72	ER	ND		376		39.8		11.1	ER	9.71	ER	93.5		8.23	ER	3.73	ER	11800		2460		146		96.5		<20		126

Notes:

Shaded cells= concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP GWQS = Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

USEPA MCL = U.S.Environmental Protection Agency Maximum Contaminant Level (2012)

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< = Analyte does not exceed the detection limit shown

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NLE = No limit established

ER = Estimated Result

Table 2
Historical Groundwater Analytical Results
Site FTMM-14
Fort Monmouth, New Jersey

				M14MW23																														
Round No.	NJDEP GWQS	USEPA MCL	Weston 1995 Background (Main Post)		36		37		38		39		40		41		42		LF1		LF2		LF3		LF4		LF5		LF6		LF7		34	
Date Collected					5/19/2008		8/14/2008		10/30/2008		3/31/2009		6/17/2009		9/10/2009		11/20/2009		3/31/2010		6/7/2010		8/26/2010		12/9/2010		3/3/2011		5/11/2011		8/3/2011		3/18/2008	
ANALYTE/Lab ID					80167.08		80299.08		80395.08		90139.08		90242.08		90375.07		90452.08		10114.06		10240.06		1036307		1054107		1108009		1120107		1132305		80089.09	
Volatile Organic Compounds (µg/L)																																		
1,4-Dichlorobenzene	75	75	--		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.15		<0.15		<0.15		<0.15		<0.26	ND		
Acetone	6000	NLE	--		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.32		<0.32		<0.32		<0.32		<7.6	ND		
Carbon disulfide	700	NLE	--		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.12		<0.12		<0.12		<0.12		<0.18	ND		
Chlorobenzene	50	100	--		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.12		<0.12		<0.12		<0.12		<0.22	ND		
Cyclohexane	100.0	NLE	--		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		<0.29	NA		
Methylcyclohexane	NLE	NLE	--		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		<0.18	NA		
Methylene chloride	3	5	--		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.42	J	<0.26		<0.26		<0.26		<0.20	ND		
TICs*	500	NLE	--		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Metals (µg/L)																																		
Aluminum	200	NLE	121000		ND		ND		2090		475		184		87.6	ER	56		922		ND		<100		<100		<200		406		<200	206		
Antimony	6	6	20.70		ND		ND		ND		17.7		ND		ND		ND		9.93	ER	8.43	ER	16.7		7.04	ER	<6.0		<6.0		<6	3.91	ER	
Arsenic	3	10	89.30		4.2	ER	14.2		4.85	ER	74		29.5		23		2.6	ER	2.85	ER	5.01		3.49	ER	6.42		<3.0		<3.0		<3	44.5		
Barium	6000	2000	699.00		249		59.2		360		73.2		42.9		61.6		208		40.8		22.4		165		14.3		<200		<200		<200	27.8		
Beryllium	1	4	2.10		ND		ND		1.09		0.332	ER	0.182	ER	ND		ND		0.056	ER	0.069	ER	<0.5		<0.5		<1.0		<1.0		<1	ND		
Cadmium	4	5	9.50	ER	1.7	ER	0.971	ER	15.3		1.9	ER	0.502	ER	ND		5.82		ND		ND		9.73		1.36	ER	3.9		<3.0		<3	0.455	ER	
Calcium	NLE	NLE	45400.00		67800		39000		212000		46000		45700		40700		106000		26900		37200		220000		38100		73400		59400		36200	209000		
Chromium	70	100	191.00	ER	1.38	ER	0.861	ER	ND		0.696	ER	ND		ND		ND		7.66		ND		<5		<5		<10		<10		<10	0.213	ER	
Cobalt	NLE	NLE	18.30	ER	1.01	ER	ND		ND		8.32		0.847	ER	ND		4.94		2.02		ND		4.4		<2		<50		<50		<50	2.14		
Copper	1300	1300	65.60		3.59	ER	ND		15.8		20.8		6.94		ND		ND		10.5		ND		6.66		<5		38.6		15.7		<10	1.29	ER	
Iron	300	NLE	431000		16000		7190		20600		10300		6140		7570		4090		2840		938		416	ER	347	ER	1240		8990		2360	856		
Lead	5	15	22.70	ER	2.09	ER	ND		ND		ND		1.3	ER	ND		ND		4.22	ER	ND		3.02	ER	<5		<3.0		<3.0		<3	ND		
Magnesium	NLE	NLE	62700		18800		6620		84800		8620		6500		7880		48000		3800		2750		92500		5970		10600		11700		5010	26800		
Manganese	50	NLE	331		476		120		1190		351		147		179		376		121		30.6		468		15.4		921		552		97.6	108		
Mercury	2	2	0.26		ND		ND		ND		ND		ND		ND		ND		ND		0.11	ER	<0.5		<0.5		<0.20		<0.20		<0.2	ND		
Nickel	100	NLE	187		8.35		ND		50.7		7.03		1.86	ER	0.582	ER	40.1		6.97		0.699	ER	44.2		2.29	ER	77.7		17.8		<10	28.4		
Potassium	NLE	NLE	137000		8260		4930		22900		5170		5730		6290		15300		4880		4730		20000		5590		<10000		<10000		<10000	6380		
Selenium	40	50	29.60		ND		5.75	ER	ND		73.3		9.39	ER	28.6		12.9	ER	37		NR		113		<5		<10		<10		<10	ND		
Silver	40	NLE	ND		1.32	ER	1.98	ER	ND		ND		ND		ND		3.1	ER	1.71	ER	ND		<5		<5		<10		<10		<10	1.25	ER	
Sodium	50000	NLE	21500		117000		17600		642000	E	36100		19200		23200		370000		13100		5650		562000		30900		34300		38900		14900	2.45	ER	
Thallium	2	2	5.50		ND		ND		2.03	ER	ND		ND		ND		ND		ND		ND		<5		<5		<2.0		<2.0		<2	2.45	ER	
Vanadium	NLE	NLE	108	ER	0.935	ER	1.37	ER	1.52	ER	1.92	ER	ND		1.59	ER	2.48	ER	3.64	ER	ND		<5		<5		<50		<50		<50	3.9	ER	
Zinc	2000	NLE	233		29.6		ND		830		175		27.9		13.2	ER	627		120		9.61	ER	1.2		68.9		2420		322		32.8	20.3	ER	

Notes:

Shaded cells= concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP GWQS = Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

USEPA MCL = U.S.Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low flow sampling method used to collect sample

< = Analyte does not exceed the detection limit shown

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)

NA = Not analyzed

ND = Not detected

NLE = No limit established

ER = Estimated Result

Table 2
Historical Groundwater Analytical Results
Site FTMM-14
Fort Monmouth, New Jersey

M14MW24																																
Round No.	NJDEP GWQS	USEPA MCL	Weston 1995 Background (Main Post)	34 Dup	35		36		37		38		39		40		41		LF1		LF1 Dup		LF2		LF3		LF4		LF5		LF6	
Date Collected				3/18/2008	5/19/2008	8/14/2008	10/30/2008	3/31/2009	6/17/2009	9/10/2009	11/20/2009	3/31/2010	3/31/2010	6/7/2010	8/27/2010	12/9/2010	3/4/2011	5/11/2011														
ANALYTE/Lab ID				80089.03	80167.09	80299.09	80395.09	90139.09	90242.09	90375.08	90452.09	10114.04	10114.03	10240.07	1036504	1054108	1108305	1120108														
Volatile Organic Compounds (µg/L)																																
1,4-Dichlorobenzene	75	75	--	NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.15		<0.15		<0.15	<0.15	
Acetone	6000	NLE	--	NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.32		<0.32		<0.32	<0.32	
Carbon disulfide	700	NLE	--	NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.12		<0.12		<0.12	<0.12	
Chlorobenzene	50	100	--	NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.12		<0.12		<0.12	<0.12	
Cyclohexane	100.0	NLE	--	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA	
Methylcyclohexane	NLE	NLE	--	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA	
Methylene chloride	3	5	--	NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		<0.26		<0.26		<0.26	<0.26	
TICs*	500	NLE	--	NA		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	
Metals (µg/L)																																
Aluminum	200	NLE	121000	217		ND		ND		310		123		ND		56.4		35.1	ER	30.2	ER	123		41.7	ER	<100		<100		239	<200	
Antimony	6	6	20.70	5.93	ER	ND		ND		ND		23.1		4.81	ER	6.59	ER	4.9	ER	6.94	ER	13.9		13.2		13.5		6.59	ER	<6.0	<6.0	
Arsenic	3	10	89.30	43.1		8.43		4.64	ER	ND		95.6		21.3		30.9		3.41	ER	ND		0.9	ER	4.74	ER	1.58	ER	2.88	ER	<3.0	6.1	
Barium	6000	2000	699.00	28.9		25		32.7		35.6		23.7		28.4		20.9		25.9		30.9		13.9		21.8		19.6		28.3		<200	<200	
Beryllium	1	4	2.10	ND		0.165	ER	0.136	ER	ND		ND		0.103	ER	ND		ND		ND		ND		0.135	ER	<0.5		0.416	ER	<1.0	<1.0	
Cadmium	4	5	9.50	0.613	ER	ND		ND		1.63	ER	1.05	ER	0.891	ER	ND		ND		ND		0.713	ER	0.624	ER	<2		1.75	ER	<3.0	<3.0	
Calcium	NLE	NLE	45400.00	209000		200000		240000		239000		198000		240000		157000		220000	E	30600		104000		162000		151000		221000		187000	206000	
Chromium	70	100	191.00	0.561	ER	0.424	ER	0.508	ER	ND		0.629	ER	ND		ND		ND		ND		ND		ND		<5		<5		<10	<10	
Cobalt	NLE	NLE	18.30	1.95	ER	ND		ND		1.27	ER	0.196	ER	0.431	ER	ND		ND		ND		ND		ND		<2		1.33	ER	<50	<50	
Copper	1300	1300	65.60	2.11	ER	ND		ND		ND		11.8		ND		ND		ND		ND		2.96	ER	ND		3.02	ER	3.58	ER	<10	27.1	
Iron	300	NLE	431000	887		1400		133		5390		481	ER	2610		ND		705		2460		282		2830		78	ER	649		924	2860	
Lead	5	15	22.70	ND		ND		ND		ND		5.41		ND		ND		ND		ND		ND		ND		<5		<5		<3.0	<3.0	
Magnesium	NLE	NLE	62700	27500		25800		34900		31200		28700		31700		36100		35100		4300		11600		26500		29800		23100		17700	22100	
Manganese	50	NLE	331	107		106		123		392		93.6		280		142		169		98.9		12.8		90.7		54.8		90.5		164	211	
Mercury	2	2	0.26	ND		ND		ND		ND		ND		ND		ND		ND		ND		0.12	ER	0.1	ER	0.19	ER	<0.5		<0.20	<0.20	
Nickel	100	NLE	187	25.6		6.2		1.72	ER	6.15		7.79		3.94	ER	1.25	ER	2.61	ER	ND		16.2		2.05	ER	2.14	ER	28.3		34.4	21.2	
Potassium	NLE	NLE	137000	6840		5040		11100		8660		7660		8850		19800		12800		7260		2760		10000		13300		5460		<10000	<10000	
Selenium	40	50	29.60	ND		15.5		16.4		ND		62.7		4.42	ER	58		10.7	ER	49.5		85.8		NR		119		<5		<10	<10	
Silver	40	NLE	ND	1.47		ND		ND		ND		ND		6.31		10.5		1.25	ER	5.49		ND		ND		<5		<5		<10	<10	
Sodium	50000	NLE	21500	38000		26500		63100		42300		44300		46200		95700		63400		7620		9170		50300		81300		18800		13900	25800	
Thallium	2	2	5.50	1.73	ER	ND		ND		4.02	ER	ND		ND		ND		ND		ND		ND		ND		<5		<5		<2.0	<2.0	
Vanadium	NLE	NLE	108	3.96	ER	1.47	ER	2.91		2.12	ER	2.69	ER	0.956	ER	3.14	ER	3.16		ND		0.861	ER	2.28	ER	2.98	ER	0.903	ER	<50	<50	
Zinc	2000	NLE	233	21.1	ER	ND		ND		41.9		58.1		8.77	ER	4.74	ER	4.63		ND		17.6	ER	ND		<50		8.76	ER	31.8	<20	

Notes:
Shaded cells= concentrations exceed the NJDEP GWQS
*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for VOCs and SVOCs. No individual compound can exceed 100 µg/L.
NJDEP GWQS = Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)
USEPA MCL = U.S.Environmental Protection Agency Maximum Contaminant Level (2012)
LF = Low flow sampling method used to collect sample
< = Analyte does not exceed the detection limit shown

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)
NA = Not analyzed
ND = Not detected
NLE = No limit established
ER = Estimated Result

Table 2
Historical Groundwater Analytical Results
Site FTMM-14
Fort Monmouth, New Jersey

					M14MW25							M14MW26									
Round No.	NJDEP GWQS	USEPA MCL	Weston 1995 Background (Main Post)	LF7	LF1	LF1 Dup	LF2		LF3		LF1	LF2	LF3	LF4	LF5	LF6	LF6 Dup				
Date Collected				8/3/2011	8/12/2010	8/12/2010	8/27/2010	12/9/2010	10/29/2010	11/12/2010	12/9/2010	3/3/2011	5/11/2011	8/2/2011	8/2/2011						
ANALYTE/Lab ID				1132306	1034104	1034103	10366.01	1054110	1046801	1048301	1054111	1108004	1120110	1132004	1132003						
Volatile Organic Compounds (µg/L)																					
1,4-Dichlorobenzene	75	75	--	<0.26	<0.15		<0.15	<0.15		<0.15		<0.15		<0.15		<0.15	<0.26	<0.26			
Acetone	6000	NLE	--	<7.6	<0.32		<0.32	<0.32		<0.32		4.29		<0.32		<0.32	<7.6	<7.6			
Carbon disulfide	700	NLE	--	<0.18	0.63		0.6	<0.12		<0.12		1.03		<0.12		<0.12	<0.18	<0.18			
Chlorobenzene	50	100	--	<0.22	<0.12		<0.12	<0.12		<0.12		<0.12		<0.12		<0.12	<0.22	<0.22			
Cyclohexane	100.0	NLE	--	<0.29	NA		NA	NA		NA		NA		NA		NA	<0.29	<0.29			
Methylcyclohexane	NLE	NLE	--	<0.18	NA		NA	NA		NA		NA		NA		NA	<0.18	<0.18			
Methylene chloride	3	5	--	<0.20	<0.26		<0.26	<0.26		<0.26		<0.26		<0.26		<0.26	<0.20	<0.20			
TICs*	500	NLE	--	ND	ND		ND	ND		ND		ND		ND		ND	ND	ND			
Metals (µg/L)																					
Aluminum	200	NLE	121000	<200	139		157	174		48.3	ER	32.9	ER	41.8	ER	21.2	ER	<200	702	626	1060
Antimony	6	6	20.70	<6	<4.8		<10	<4.8		<4.70		5.03	ER	<4.70		<10		<6.0	<6.0	<6.0	<6
Arsenic	3	10	89.30	7.2	2.74	ER	3.15	10.25		9.86		3.16	ER	3.97	ER	9.2		<3.0	4.6	10	19.6
Barium	6000	2000	699.00	<200	33.3		35.8	10.1		7.51		22.9		28.1		20.1		<200	<200	<200	<200
Beryllium	1	4	2.10	<1	0.072	ER	0.071	<0.04		<0.40		<0.40		<0.40		<0.5		<1.0	<1.0	<1.0	<1
Cadmium	4	5	9.50	<3	<0.500		<2	<0.500		<0.40		<0.40		<0.40		<2		<3.0	<3.0	<3.0	<3
Calcium	NLE	NLE	45400.00	200000	8020		8560	7980		6480		30200		15400		16000		5610	<5000	6940	8920
Chromium	70	100	191.00	<10	<1.0		<5	1.05	ER	<0.60		0.883	ER	<0.60		<5		<10	<10	<10	10.6
Cobalt	NLE	NLE	18.30	<50	2.54		2.72	<0.400		<0.30		2.8		3.24		1.75	ER	<50	<50	<50	<50
Copper	1300	1300	65.60	<10	2.45	ER	2.81	3.94	ER	<0.80		<0.80		<0.80		<5		<10	29.4	<10	<10
Iron	300	NLE	431000	8490	574		497	6240		5080		217	ER	617		928		407	1860	3910	6620
Lead	5	15	22.70	<3	<2.4		<5	<2.4		<2.10		<2.10		<2.10		<5		<3.0	<3.0	<3.0	<3
Magnesium	NLE	NLE	62700	31200	1670		1760	1640		1320		2970		2240		1730		<5000	<5000	<5000	<5000
Manganese	50	NLE	331	286	50.3		54.3	42.3		25.6		62.1		54.9		47		21.3	15	30.7	37.9
Mercury	2	2	0.26	<0.2	<0.050		<0.5	0.1	ER	<0.254		<0.254		<0.254		<0.5		<0.20	<0.20	<0.20	<0.2
Nickel	100	NLE	187	<10	9.75		9.81	3.8	ER	<0.70		4.31	ER	5.76		3.14	ER	<10	<10	<10	<10
Potassium	NLE	NLE	137000	13300	6300		6740	6250		6480		4250		5410		5360		<10000	<10000	<10000	<10000
Selenium	40	50	29.60	<10	18.7	ER	21.9	30.1		<1.36		<1.36		<1.36		<5		<10	<10	<10	<10
Silver	40	NLE	ND	<10	<0.500		<5	1.7	ER	0.981	ER	<0.60		<0.60		<5		<10	<10	<10	<10
Sodium	50000	NLE	21500	65600	6840		7720	7150		4100	ER	7030		7920		4690	ER	<10000	<10000	<10000	<10000
Thallium	2	2	5.50	<2	<0.53		<5	<0.53		<0.53		<0.53		<0.53		<5		<2.0	<2.0	<2.0	<2
Vanadium	NLE	NLE	108	<50	<0.600		<5	0.726	ER	0.629	ER	0.713	ER	0.957	ER	<5		<50	<50	<50	<50
Zinc	2000	NLE	233	<20	21.1	ER	23.6	9.58	ER	<2.50		5.27	ER	12.6	ER	9.27	ER	<20	<20	22.3	<20

Notes:

Shaded cells= concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP GWQS = Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

USEPA MCL = U.S.Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low flow sampling method used to collect sample

< = Analyte does not exceed the detection limit shown

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)

NA = Not analyzed

ND = Not detected

NLE = No limit established

ER = Estimated Result

Table 3
2013 Baseline Groundwater Analytical Detections
Site FTMM-14
Fort Monmouth, New Jersey

SAMPLE ID:			STANDARDS VALUES		FTMM-14-GW-M14MW19-10.5	FTMM-14-GW-M14MW19-15.5	FTMM-14-GW-M14MW20-11.42	FTMM-14-GW-M14MW21-10.3	FTMM-14-GW-M14MW21-13.5	FTMM-14-GW-M14MW22-12.18	FTMM-14-GW-M14MW22-19.13	
DATE SAMPLED:			NJDEP GWQS ^[1]	USEPA MCL ^[2]	27-Aug-2013	27-Aug-2013	27-Aug-2013	27-Aug-2013	27-Aug-2013	27-Aug-2013	27-Aug-2013	
LAB SAMPLE ID:					R1306281-010	R1306281-011	R1306281-012	R1306281-013	R1306281-014	R1306281-015	R1306281-016	
SAMPLE DEPTH (ft bgs):					10.5	15.5	11.42	10.3	13.5	12.18	19.13	
	CAS No.	Unit										
Volatile Organics - SW8260C												
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	1	NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	71-55-6	µg/L	30	200	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	1	NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	79-00-5	µg/L	3	5	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	75-34-3	µg/L	50	NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethene	75-35-4	µg/L	1	7	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloropropene	563-58-6	µg/L	5	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichlorobenzene	87-61-6	µg/L	5	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,2,3-Trichloropropane	96-18-4	µg/L	0.03	NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,2,4-Trichlorobenzene	120-82-1	µg/L	9	70	1.0	U	1.0	U	1.0	U	1.0	U
1,2,4-Trimethylbenzene	95-63-6	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.02	0.2	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dibromoethane (EDB)	106-93-4	µg/L	0.03	NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	95-50-1	µg/L	600	NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethane	107-06-2	µg/L	2	NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloropropane	78-87-5	µg/L	1	NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,3,5-Trimethylbenzene	108-67-8	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,3-Dichlorobenzene	541-73-1	µg/L	600	NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,3-Dichloropropane	142-28-9	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
1,4-Dichlorobenzene	106-46-7	µg/L	75	NLE	1.0	U	1.0	U	1.0	U	1.0	U
2,2-Dichloropropane	594-20-7	µg/L	100	^[3] NLE	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ
2-Butanone (MEK)	78-93-3	µg/L	300	NLE	1.0	U	1.0	U	1.0	U	1.0	U
2-Chlorotoluene	95-49-8	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
2-Hexanone	591-78-6	µg/L	300	^[4] NLE	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorotoluene	106-43-4	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
Acetone	67-64-1	µg/L	6,000	NLE	1.8	BJ	7.3	BJ	2.2	BJ	1.5	BJ
Benzene	71-43-2	µg/L	1	5	1.0	U	1.0	U	1.0	U	1.0	U
Bromobenzene	108-86-1	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
Bromochloromethane	74-97-5	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	75-27-4	µg/L	1	NLE	1.0	U	1.0	U	1.0	U	1.0	U
Bromoform	75-25-2	µg/L	4	NLE	1.0	U	1.0	U	1.0	U	1.0	U
Bromomethane	74-83-9	µg/L	10	NLE	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ
Carbon tetrachloride	56-23-5	µg/L	1	NLE	1.0	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	108-90-7	µg/L	50	100	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	75-00-3	µg/L	5	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
Chloroform	67-66-3	µg/L	70	NLE	1.0	U	1.0	U	1.0	U	1.0	U
Chloromethane	74-87-3	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	156-59-2	µg/L	70	70	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	10061-01-5	µg/L	5	^[3] NLE	1.0	U	1.0	U	1.0	U	1.0	U
Dibromochloromethane	124-48-1	µg/L	1	NLE	1.0	U	1.0	U	1.0	U	1.0	U
Dichlorodifluoromethane (Freon 12)	75-71-8	µg/L	1,000	NLE	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	100-41-4	µg/L	700	700	1.0	U	1.0	U	1.0	U	1.0	U
Hexachlorobutadiene	87-68-3	µg/L	1	NLE	1.0	U	1.0	U	1.0	U	1.0	U
Isopropylbenzene	98-82-8	µg/L	700	NLE	1.0	U	1.0	U	1.0	U	1.0	U

Table 3
2013 Baseline Groundwater Analytical Detections
Site FTMM-14
Fort Monmouth, New Jersey

SAMPLE ID:			STANDARDS VALUES		FTMM-14-GW-M14MW19-10.5		FTMM-14-GW-M14MW19-15.5		FTMM-14-GW-M14MW20-11.42		FTMM-14-GW-M14MW21-10.3		FTMM-14-GW-M14MW21-13.5		FTMM-14-GW-M14MW22-12.18		FTMM-14-GW-M14MW22-19.13	
DATE SAMPLED:			NJDEP GWQS ^[1]	USEPA MCL ^[2]	27-Aug-2013		27-Aug-2013		27-Aug-2013		27-Aug-2013		27-Aug-2013		27-Aug-2013		27-Aug-2013	
LAB SAMPLE ID:					R1306281-010		R1306281-011		R1306281-012		R1306281-013		R1306281-014		R1306281-015		R1306281-016	
SAMPLE DEPTH (ft bgs):					10.5		15.5		11.42		10.3		13.5		12.18		19.13	
	CAS No.	Unit																
Methylene chloride	75-09-2	µg/L	3	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Methyl-tert-butyl ether (MTBE)	1634-04-4	µg/L	70	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Naphthalene	91-20-3	µg/L	300	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
n-Butylbenzene	104-51-8	µg/L	100	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
n-Propylbenzene	103-65-1	µg/L	100	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
p-Isopropyltoluene	99-87-6	µg/L	100	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
sec-Butylbenzene	135-98-8	µg/L	100	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Styrene	100-42-5	µg/L	100	100	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
tert-Butylbenzene	98-06-6	µg/L	100	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene (PCE)	127-18-4	µg/L	1	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	108-88-3	µg/L	600	1,000	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	100	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	10061-02-6	µg/L	5	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene (TCE)	79-01-6	µg/L	1	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane (Freon 11)	75-69-4	µg/L	2,000	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	75-01-4	µg/L	1	2	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Xylene (Total)	1330-20-7	µg/L	1,000	10,000	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U

QA NOTES AND DATA QUALIFIERS:

U - Analyte was not detected above the indicated limit of detection (LOD).
UJ - Analyte not detected, reported LOD may be inaccurate or imprecise.
BJ - Analyte detected, estimated concentration. Analyte also found in an associated blank at concentration above one half the LOQ.
* - Field duplicate of sample on left.
Detections are bolded.
Detections above the NJDEP GWQS are highlighted.
For Detections above the USEPA MCL, the cell border is bolded.

NOTES:

[1] New Jersey Department of Environmental Protection Ground Water Quality Standards Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels.
http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm).
[2] USEPA 2012 Edition of the Drinking Water Standards and Health Advisories, Spring 2012.
(<http://water.epa.gov/action/advisories/drinking/upload/dwstandards2012.pdf>).
[3] Interim generic groundwater quality criteria.
[4] Interim specific groundwater quality criteria.
NLE - No screening level established.

Table 3
2013 Baseline Groundwater Analytical Detections
Site FTMM-14
Fort Monmouth, New Jersey

SAMPLE ID:			STANDARDS VALUES		FTMM-14-GW-M14MW23-9.59	FTMM-14-GW-M14MW23-17.31	FTMM-14-GW-M14MW24-10.74	FTMM-14-GW-M14MW124-10.74*	FTMM-14-GW-M14MW24-14.24
DATE SAMPLED:			NJDEP GWQS ^[1]	USEPA MCL ^[2]	27-Aug-2013	27-Aug-2013	27-Aug-2013	27-Aug-2013	27-Aug-2013
LAB SAMPLE ID:					R1306281-017	R1306281-018	R1306281-019	R1306281-001	R1306281-020
SAMPLE DEPTH (ft bgs):					9.59	17.31	10.74	10.74	14.24
	CAS No.	Unit							
Volatile Organics - SW8260C									
1,1,1,2-Tetrachloroethane	630-20-6	µg/L	1	NLE	1.0	U	1.0	U	1.0
1,1,1-Trichloroethane	71-55-6	µg/L	30	200	1.0	U	1.0	U	1.0
1,1,2,2-Tetrachloroethane	79-34-5	µg/L	1	NLE	1.0	U	1.0	U	1.0
1,1,2-Trichloroethane	79-00-5	µg/L	3	5	1.0	U	1.0	U	1.0
1,1-Dichloroethane	75-34-3	µg/L	50	NLE	1.0	U	1.0	U	1.0
1,1-Dichloroethene	75-35-4	µg/L	1	7	1.0	U	1.0	U	1.0
1,1-Dichloropropene	563-58-6	µg/L	5	^[3] NLE	1.0	U	1.0	U	1.0
1,2,3-Trichlorobenzene	87-61-6	µg/L	5	^[3] NLE	1.0	U	1.0	U	1.0
1,2,3-Trichloropropane	96-18-4	µg/L	0.03	NLE	1.0	U	1.0	U	1.0
1,2,4-Trichlorobenzene	120-82-1	µg/L	9	70	1.0	U	1.0	U	1.0
1,2,4-Trimethylbenzene	95-63-6	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0
1,2-Dibromo-3-chloropropane	96-12-8	µg/L	0.02	0.2	1.0	U	1.0	U	1.0
1,2-Dibromoethane (EDB)	106-93-4	µg/L	0.03	NLE	1.0	U	1.0	U	1.0
1,2-Dichlorobenzene	95-50-1	µg/L	600	NLE	1.0	U	1.0	U	1.0
1,2-Dichloroethane	107-06-2	µg/L	2	NLE	1.0	U	1.0	U	1.0
1,2-Dichloropropane	78-87-5	µg/L	1	NLE	1.0	U	1.0	U	1.0
1,3,5-Trimethylbenzene	108-67-8	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0
1,3-Dichlorobenzene	541-73-1	µg/L	600	NLE	1.0	U	1.0	U	1.0
1,3-Dichloropropane	142-28-9	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0
1,4-Dichlorobenzene	106-46-7	µg/L	75	NLE	1.0	U	1.0	U	1.0
2,2-Dichloropropane	594-20-7	µg/L	100	^[3] NLE	1.0	UJ	1.0	UJ	1.0
2-Butanone (MEK)	78-93-3	µg/L	300	NLE	1.0	U	1.0	U	1.0
2-Chlorotoluene	95-49-8	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0
2-Hexanone	591-78-6	µg/L	300	^[4] NLE	5.0	U	5.0	U	5.0
4-Chlorotoluene	106-43-4	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0
Acetone	67-64-1	µg/L	6,000	NLE	2.5	BJ	2.2	BJ	1.9
Benzene	71-43-2	µg/L	1	5	1.0	U	1.0	U	1.0
Bromobenzene	108-86-1	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0
Bromochloromethane	74-97-5	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0
Bromodichloromethane	75-27-4	µg/L	1	NLE	1.0	U	1.0	U	1.0
Bromoform	75-25-2	µg/L	4	NLE	1.0	U	1.0	U	1.0
Bromomethane	74-83-9	µg/L	10	NLE	1.0	UJ	1.0	UJ	1.0
Carbon tetrachloride	56-23-5	µg/L	1	NLE	1.0	U	1.0	U	1.0
Chlorobenzene	108-90-7	µg/L	50	100	1.0	U	1.0	U	1.0
Chloroethane	75-00-3	µg/L	5	^[3] NLE	1.0	U	1.0	U	1.0
Chloroform	67-66-3	µg/L	70	NLE	1.0	U	1.0	U	1.0
Chloromethane	74-87-3	µg/L	100	^[3] NLE	1.0	U	1.0	U	1.0
cis-1,2-Dichloroethene	156-59-2	µg/L	70	70	1.0	U	1.0	U	1.0
cis-1,3-Dichloropropene	10061-01-5	µg/L	5	^[3] NLE	1.0	U	1.0	U	1.0
Dibromochloromethane	124-48-1	µg/L	1	NLE	1.0	U	1.0	U	1.0
Dichlorodifluoromethane (Freon 12)	75-71-8	µg/L	1,000	NLE	1.0	U	1.0	U	1.0
Ethylbenzene	100-41-4	µg/L	700	700	1.0	U	1.0	U	1.0
Hexachlorobutadiene	87-68-3	µg/L	1	NLE	1.0	U	1.0	U	1.0
Isopropylbenzene	98-82-8	µg/L	700	NLE	1.0	U	1.0	U	1.0

Table 3
2013 Baseline Groundwater Analytical Detections
Site FTMM-14
Fort Monmouth, New Jersey

SAMPLE ID:			STANDARDS VALUES		FTMM-14-GW-M14MW23-9.59		FTMM-14-GW-M14MW23-17.31		FTMM-14-GW-M14MW24-10.74		FTMM-14-GW-M14MW124-10.74*		FTMM-14-GW-M14MW24-14.24	
DATE SAMPLED:			NJDEP GWQS ^[1]	USEPA MCL ^[2]	27-Aug-2013		27-Aug-2013		27-Aug-2013		27-Aug-2013		27-Aug-2013	
LAB SAMPLE ID:					R1306281-017		R1306281-018		R1306281-019		R1306281-001		R1306281-020	
SAMPLE DEPTH (ft bgs):					9.59		17.31		10.74		10.74		14.24	
	CAS No.	Unit												
Methylene chloride	75-09-2	µg/L	3	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Methyl-tert-butyl ether (MTBE)	1634-04-4	µg/L	70	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Naphthalene	91-20-3	µg/L	300	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
n-Butylbenzene	104-51-8	µg/L	100 ^[3]	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
n-Propylbenzene	103-65-1	µg/L	100 ^[3]	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
p-Isopropyltoluene	99-87-6	µg/L	100 ^[3]	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
sec-Butylbenzene	135-98-8	µg/L	100 ^[3]	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Styrene	100-42-5	µg/L	100	100	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
tert-Butylbenzene	98-06-6	µg/L	100 ^[3]	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene (PCE)	127-18-4	µg/L	1	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	108-88-3	µg/L	600	1,000	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	µg/L	100	100	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	10061-02-6	µg/L	5 ^[3]	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene (TCE)	79-01-6	µg/L	1	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichlorofluoromethane (Freon 11)	75-69-4	µg/L	2,000	NLE	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Vinyl chloride	75-01-4	µg/L	1	2	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Xylene (Total)	1330-20-7	µg/L	1,000	10,000	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U

QA NOTES AND DATA QUALIFIERS:

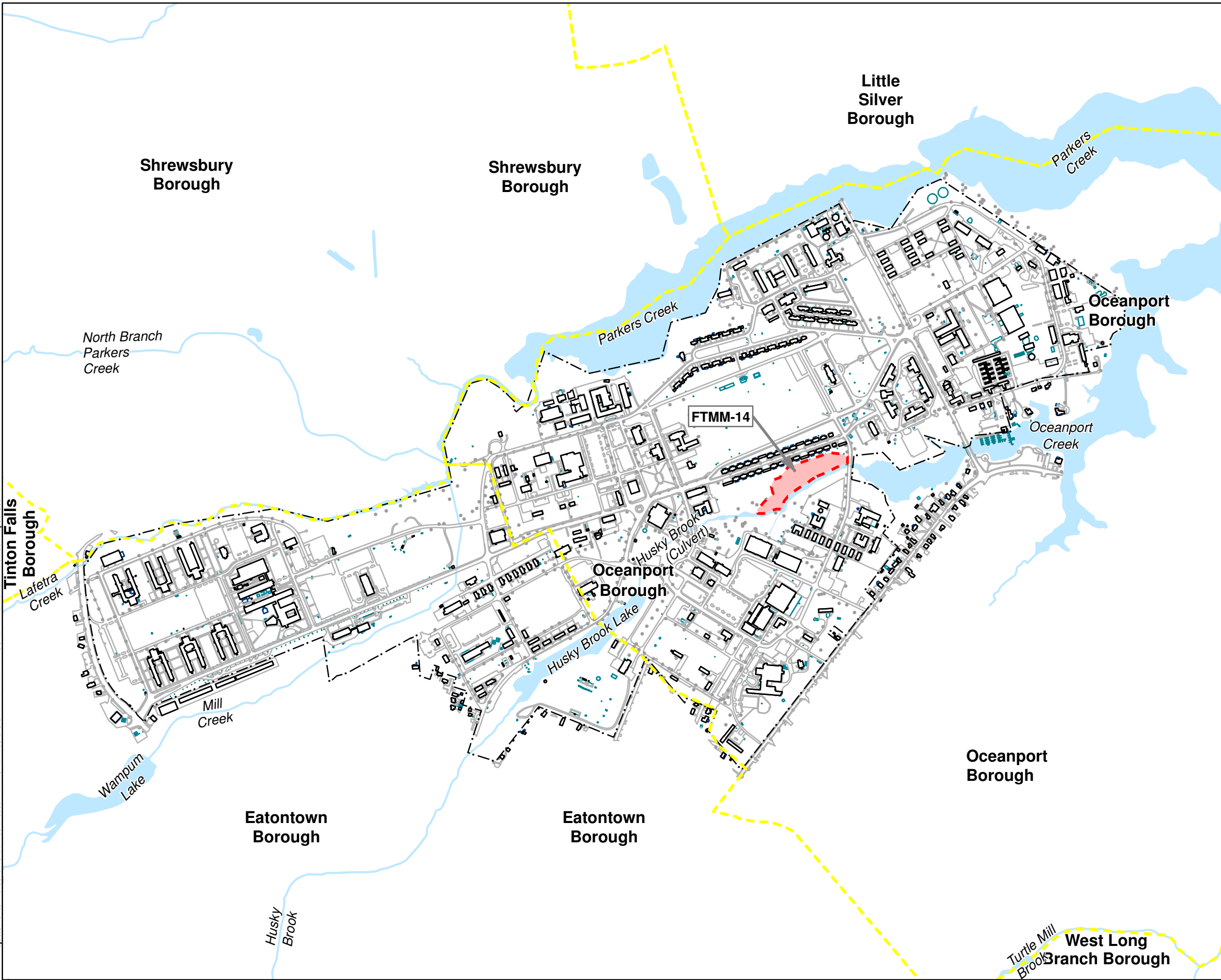
U - Analyte was not detected above the indicated limit of detection (LOD).
UJ - Analyte not detected, reported LOD may be inaccurate or imprecise.
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NOTES:

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http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm).
[2] USEPA 2012 Edition of the Drinking Water Standards and Health Advisories, Spring 2012.
(<http://water.epa.gov/action/advisories/drinking/upload/dwstandards2012.pdf>).
[3] Interim generic groundwater quality criteria.
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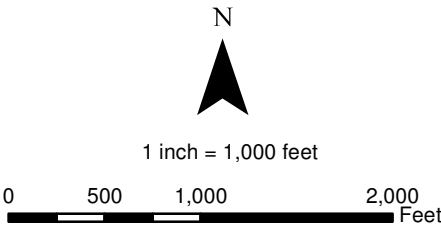
Attachment B
Figure 1 - FTMM-14 Location, and
Figure 2 - Layout of FTMM-14

P:\PT\Projects\Huntsville Cont W912DY-09-D-0062\FTMMCAD Files\GIS\GWN\FTMM-14\FIGURE 1.mxd 2/9/2017 12:52:09 PM p0018397



LEGEND:

- Municipal Boundary
- FTMM-14 Landfill Revised Boundary (2015)
- Installation Boundary
- Surface Water Feature



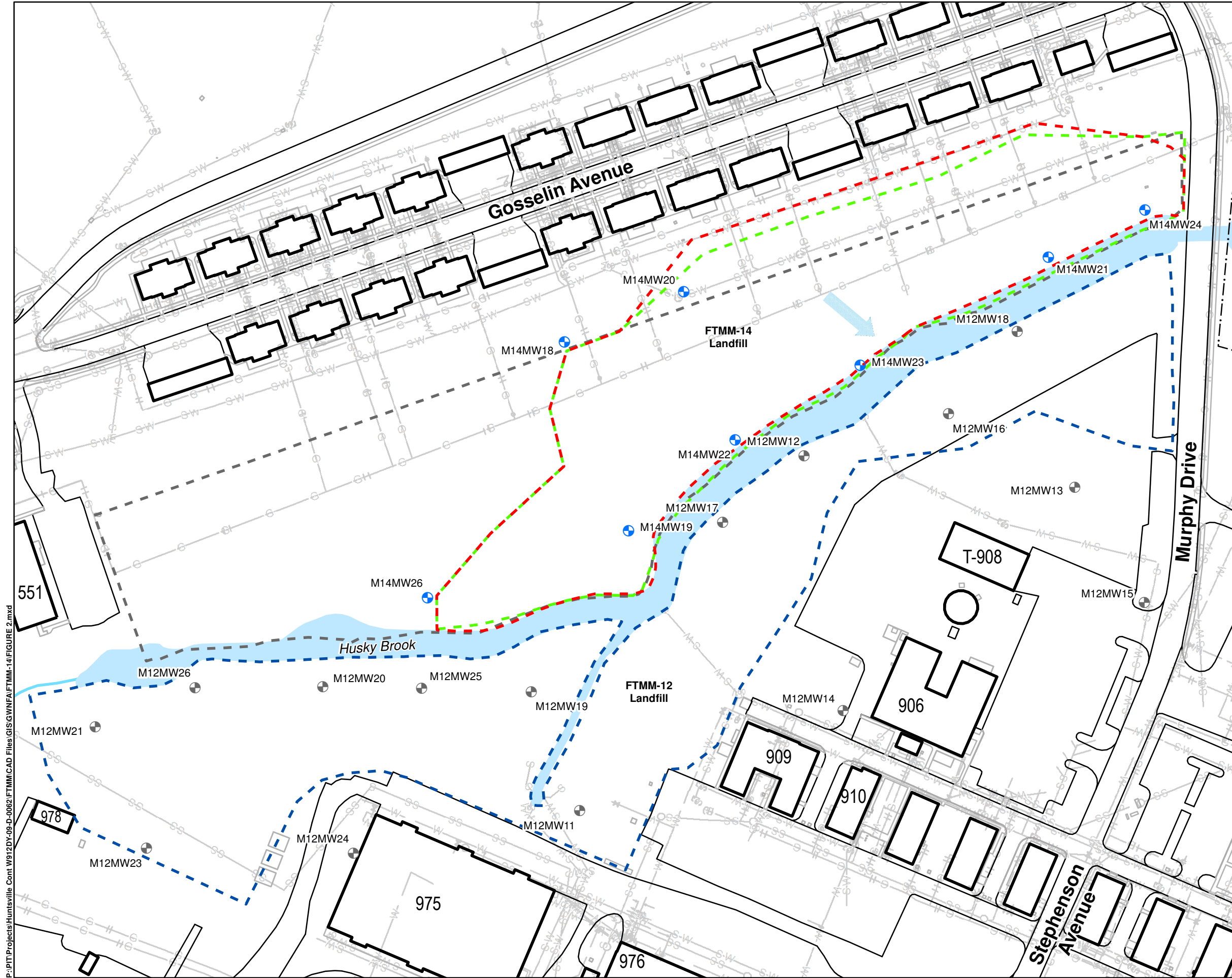
Source: FTMM Supplied CAD, 2013; ESRI Data and Maps, 2011; USGS NHD, 2012.

PARSONS
401 Diamond Drive NW,
Huntsville AL

Fort Monmouth
New Jersey

FTMM-14 LOCATION

CREATED BY: RR	REVIEWED BY: RF
DATE: FEB. 2017	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-03000	FILE: FIGURE 1.mxd

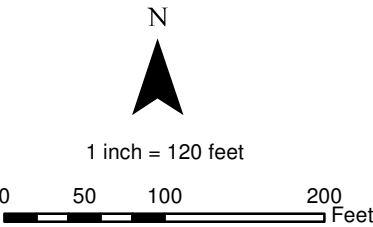


LEGEND:

- Shallow Monitoring Well
- FTMM-12 Shallow Monitoring Well
- FTMM-14 Landfill Revised Boundary (2015)
- FTMM-14 Landfill Revised Boundary (2010)
- FTMM-14 Landfill Original Boundary
- FTMM-12 Landfill Revised Boundary (2015)
- Installation Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Estimated Groundwater Flow Direction

NOTE:

The location of monitoring well M14MW25 is unknown.



Source: FTMM Supplied CAD, 2013.

PARSONS
401 Diamond Drive NW,
Huntsville AL

Fort Monmouth
New Jersey

LAYOUT OF FTMM-14

CREATED BY: RR	REVIEWED BY: JH
DATE: FEB. 2017	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-03000	FILE: FIGURE 2.mxd