State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
401 East State Street
P.O. Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

BOB MARTIN
Commissioner

January 26, 2016

William R. Colvin
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Approval

Re: *Annual (Fourth Quarter) 2014 Groundwater Sampling Report* dated *December 2015*
Fort Monmouth
Oceanport, Monmouth County
PI G000000032

Dear Mr. Colvin:

The New Jersey Department of Environmental Protection (NJDEP) has completed review of the referenced report, received December 7, 2015, prepared by Parsons to support the Remedial Investigation (RI), Feasibility Study (FS), and Decision Documents project at Fort Monmouth. An annual ground water sampling event was conducted at fourteen (14) FTMM sites between September 29, 2014 and December 19, 2014. Sampling methodologies used included low-flow and passive diffusion bag samplers (PDBS). Comments on each FTMM site are as follows:

FTMM-02 Landfill

Historic sampling at this parcel has revealed Ground Water Quality Standard (GWQS) exceedances of VOCs. Results from the annual sampling event confirmed the exceedance of the GWQS for benzene. The report recommends one additional sampling round for wells M2MW11, M2MW21, M2MW22 and M2MW24. The report recommends continued annual VOC monitoring for M2MW03 and M2MW10. The NJDEP finds the recommendations acceptable. As indicated in the submittal, and as previously requested, as this round may be a final sampling round for select monitoring wells at FTMM-02, sampling will be conducted using low-flow purging (LFPS).

FTMM-03 Landfill

Historic sampling at this parcel revealed GWQS exceedances of vinyl chloride. Results from the annual sampling event for well 3MW02 were below GWQS. The GWQS for vinyl chloride was exceeded in well

3MW07. The presence of vinyl chloride is attributed to leaching of PVC piping from well 3MW07 and does not represent ground water conditions at the parcel. The report recommends the abandonment of 3MW07 and discontinuing ground water sampling at FTMM-03. The NJDEP finds the recommendations acceptable.

FTMM-05 Landfill

Historic sampling at this parcel revealed GWQS exceedances of PCE, TCE and vinyl chloride. Results from the annual sampling event exceeded GWQS for PCE and TCE. The report recommends continued annual VOC sampling of wells M5MW11, M5MW16, M5MW20 and M5MW23. The NJDEP finds the recommendations acceptable. At any point where a decision is made to terminate ground water sampling at this parcel, the NJDEP 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. Results from the annual sampling event exceeded the GWQS for PCE and pesticides. The report recommends continued annual ground water sampling of well M8MW11 for VOCs and lead, M8MW12 for VOCs and 697MW01 for pesticides and VOCs. The report recommends discontinuing the sampling of M8MW15, M8MW16, M8MW17, M8MW21 and RM8MW24. The NJDEP finds the recommendations acceptable.

FTMM-18 Landfill

Historic sampling at this parcel revealed GWQS exceedances of benzene and 1,2-DCA. Results from the annual sampling event exceeded the GWQS for benzene and 1,2-DCA. The report recommends continued annual ground water sampling of wells M18MW22, M18MW23, 296MW04 and 296MW06 for VOCs using PDBS methodology. The NJDEP finds the recommendations acceptable.

FTMM-22 Former Wastewater Treatment Lime Pit

Historic sampling at this parcel revealed GWQS exceedances of TCE. Results from the annual sampling event exceeded the GWQS for TCE and vinyl chloride. The report recommends continued quarterly VOC sampling of wells CW1MW27, CW1MW28, CW1MW29, CW1MW31, CW1MW37 and CW1MW281. The NJDEP finds the recommendation acceptable. However, due to the increase of VOC concentrations in deep well CW1MW281, the NJDEP requires the quarterly sampling of deep well CW1MW40, which is located hydraulically downgradient of CW1MW281. At any point where a decision is made to terminate ground water sampling at this parcel, the NJDEP will require confirmatory sampling using low-flow methodology due to PDBS results biasing low compared to low-flow results at the Fort Monmouth site.

FTMM-53 Former Gas Station at Building 699

Historic sampling at this parcel revealed GWQS exceedances of benzene, PCE, TCE, TBA, VOC TICs and lead. Results from the annual sampling event exceeded the GWQS for benzene, PCE, 1,2,4-Trimethylbenzene, and VOC TICs. The report recommends continued quarterly VOC sampling of wells 699MW01, 699MW04, 699MW06, 699MW09, 699MW16, 699RW03, 699RW05 and 699RW11

using PDBS. The NJDEP finds the recommendation acceptable. At any point where a decision is made to terminate ground water sampling at this parcel, the NJDEP will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.

FTMM-57 Building 108 UST Gasoline Release

Historic sampling at this parcel revealed GWQS exceedances of lead. Results from the annual sampling event were below the GWQS for lead. The report recommends one additional annual sampling of well 108MW04 for lead. The NJDEP finds the recommendation acceptable.

FTMM-58 Building 2567 UST Gasoline

Historic sampling at this parcel revealed GWQS exceedances of TBA. Results from the annual sampling event exceeded the GWQS for TBA. The report recommends continued annual sampling events of wells 2567MW01 and 2567MW03 for TBA. The NJDEP finds the recommendation acceptable.

FTMM-59 Building 1122 Unknown Discharge

Historic sampling at this parcel revealed no GWQS exceedances for VOCs. Results from the annual sampling event were below GWQS for VOCs. The report recommends evaluating the ground water results as part of the approved RI/FS for this parcel. The NJDEP finds the recommendation acceptable.

FTMM-61 Building 283 Gasoline Storage

Historic sampling revealed GWQS exceedances of benzene and VOC TICs. Results from the 2013 and 2014 annual sampling events were below GWQS for VOCs. The report recommends discontinuing the monitoring program at this parcel. The NJDEP finds the recommendation acceptable.

FTMM-64 Building 812 UST Gasoline

Historic sampling at this parcel revealed GWQS exceedances of benzene, vinyl chloride and metals. Results from the 2014 annual sampling event exceeded the GWQS for vinyl chloride. The report recommends continued annual VOC sampling of well 812MW04. The NJDEP finds the recommendation acceptable. If a decision is made to terminate ground water sampling at this parcel, the NJDEP 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 Former AST

Historic sampling revealed GWQS exceedances of benzene, VOC TICs, arsenic and lead. The August 2013 sampling results from wells at this parcel showed exceedances of the GWQS for SVOC TICs. Results from the 2014 annual sampling event did not exceed the GWQS for SVOC TICs. The report recommends one additional sampling round from wells 886RW01, 886RW06 and 886RW08 to confirm that ground water is in compliance with the GWQS. The NJDEP finds the recommendation acceptable.

FTMM-68 Building 700 Former Dry Cleaners

Historic sampling results from August 2013 showed exceedances of the GWQS for PCE, TCE, cis-1,2-DCE and vinyl chloride in wells 565MW01 and 565MW01D. Results from the 2014 annual sampling event confirmed that chlorinated VOCs exceed GWQS in ground water. The report recommends continued quarterly ground water sampling for VOCs. The report also references the RI proposed for implementation in 2015 (the March '15 Revision 1 RIFS WP was approved April 27, 2015), to fully characterize the nature and extent of contamination at this parcel. The NJDEP finds the recommendation of continued quarterly sampling acceptable, and looks forward to receipt of the RI findings.

Miscellaneous

Ground water sample contaminant concentrations (exceedances) should be plotted on future submittal maps as required by the Technical Regulations for Site Remediation and guidance documents.

Finally, please ensure all reports submitted to this office are accompanied by a properly completed certification form, a copy of which is attached.

Please contact this office if you have any questions.

Sincerely,

Linda S. Range

Linda S. Range

C: James Moore, USACE
Cris Grill, Parsons
Joe Pearson, Calibre
Rick Harrison, FMERA
Joe Fallon, FMERA
Frank Barricelli, RAB
Daryl Clark, BGWPA