



State of New Jersey

Department of Environmental Protection

Water Compliance and Enforcement
Southern Regional Office
2 Riverside Drive, Suite 201
Camden, New Jersey 08103-0137

Bradley M. Campbell
Commissioner

James E. McGreevey
Governor

June 24, 2004

Linda Chominski, Chief
Environmental /Engineering Division
Regional Directorate of Public Works
U.S. Army Fort Dix
Attn: AFTZ-EH
Fort Dix, New Jersey 08640-5501

RE: Compliance Evaluation Inspections

U.S. Army Fort Dix – Remote Transient Non-Community Water Systems
(Bivouac, Range, Recreation and Training Area Potable Water Supply Wells)

New Hanover Township / Burlington County:

- PW ID# 0325305 - Range HQ / Control Offices
- PW ID# 0325307 - Bivouac Training Area #18
- PW ID# 0325308 - Bivouac Training Area #20
- PW ID# 0325315 - Range #14 / Rod & Gun Club

Plumstead Township / Ocean County:

- PW ID# 0325304 - Brindle Lake Recreation/Training Area
- PW ID# 0325309 - Bivouac Training Area #22A

Manchester Township / Ocean County:

- PW ID# 0325306 - Current I/R Site (Former Inactive Strat-Com Site)

Dear Ms.Chominski:

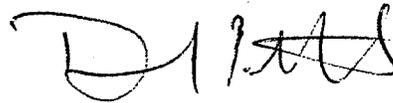
Compliance Evaluation Inspections of Fort Dix's individual remote Transient Non-Community Public Water Systems were performed on February 25, 2004 with the exceptions being Well #0325315 (which was inspected on March 5, 2004) and Well #0325306 (which could not be readily accessed on either date). The specific inspection dates as well as any site-specific compliance issues are all listed on each System's individual inspection report form(s) attached to this letter. In addition to these inspections, a subsequent follow-up inspection along with a meeting at the main water plant was held on May 13, 2004 to obtain additional monitoring information and to discuss any outstanding compliance issues discovered during the various site inspections.

Please be advised that the recently completed intensive records review and evaluation, that this Bureau conducted over the last month, revealed various monitoring and reporting violations that are still outstanding and warrant further enforcement action. Specifically, the records revealed that Fort Dix failed to conduct Nitrate monitoring, and the required Public Notification, during 2001 for each of your remote wells listed above with the exception of #0325306 which was off-line during all of calendar year 2001. These violations were specifically listed in the March 28, 2002 Compliance Evaluation Inspection Report and Cover Letter, and the previously issued Notice of Violation (NOV) dated March 14, 2002.

It is anticipated that these additional violations, which were not previously discussed during the stake-holders enforcement meeting or during our site meeting (at the main water plant) both held on May 13, 2004, will be included in the final penalty settlement expected to be finalized between the DEP and the Department of the Army – Fort Dix within the next few months. It was also noted following the data review that the seven (7) Remote System's listed above all returned to compliance for Nitrate (including #0325306) as of 2002 with sampling also properly performed in 2003 as required.

If you have any questions concerning this letter or the enclosed individual inspection reports (7 total), please contact me at (856) 614-3655 (office) or by letter through this Bureau. You may also reach me at (856) 614-3651 (desk line), (609) 577-2839 (State Cell #) or via e-mail at David.Stewart@dep.state.nj.us.

Very truly yours,



David P. Stewart
Principal Environmental Specialist

Enclosure

c: Bart Cerami, Bureau of Safe Drinking Water
Burlington County Health Department
Joe Pullen, Licensed Operator, Ft. Dix Water System
Nicole Kraft, USEPA, Region 2

Compliance Evaluation Summary

Activity: SCI040001 *Standard Compliance Inspection (0325304)

Start Date/Time: 2/25/2004 00:00 End Date/Time: 5/13/2004 00:00

Lead Investigator: Stewart, David

Other Investigators:

Persons Interviewed: Joe Pullen, Interim Oper./L.O.
Ft. Dix Water Plant
609-562-5040

Witnesses:

Program Interest: 0325304 US ARMY FORT DIX (SAFE DRINKING WATER)
AFRC-FA-PWO, BLDG 0099
New Hanover Twp, Burlington County

Responsible Entities: USDOD DEPT OF THE ARMY

Comments: BRINDLE LAKE RECREATION/TRAINING AREA WELL (Seasonal Usage)

1. Performed an inspection of the well on February 25, 2004 with a follow-up inspection and data review conducted 3/5/04. In addition, further requests for data and evaluations were needed to address EPA & BSDW concerns over possible outstanding reporting and monitoring violations. These final data evaluations were completed between 5/28/04 through 6/2/04. The facility did perform the required monitoring for both Coliform & Nitrate during calendar year 2003.
2. The Well-House appeared to be well maintained with no significant maintenance or operational concerns observed or reported. Only minor or routine maintenance needs were discussed and agreed upon during the inspection.
3. During the course of review the facility's file for any outstanding violations, it was found that the facility's 2001 failure to monitor for Nitrate (annual req.) & perform Public Notification has yet to be resolved formally. As such, it is anticipated that these violations shall be addressed as part of current enforcement actions between the Army and this Dept. concerning the main water supply system (PW #0325001).

Compliance Evaluation Report

Start Date: 2/25/2004 Page 1 of 2

Activity: SCJ040001 *Standard Compliance Inspection

Lead Investigator: Stewart, David

25304 US ARMY FORT DIX, New Hanover Twp (SAFE DRINKING WATER)

Requirement	Status	Results or Comments
Subject Item: WF01 - Water -Storage Unit 1		
STORAGE UNIT 1 INFORMATION.	H	
Location, Type, Capacity. [N.J.A.C. 7:19- 6.7(b)]	DC	1,000 gallon hydro-pneumatic tank in well-house to maintain pressure/volume.
Subject Item: WT37 - Public Notice		
Did the purveyor provide public notice as required by the regulations. [N.J.A.C. 7:10- 5]	OC	Failure to provide public notice as required by the regulations. The facility did fail to provide public notice for the outstanding Nitrate monitoring violation for calendar year 2001 only. This matter shall be addressed under a separate action/settlement as noted in the comments section of the cover page to this inspection.
Subject Item: WTNC - Water - Transient Non-Community		
Form monitoring in accordance with the State Regulations: within 30 days of receipt of this document. [N.J.A.C. 7:10- 5]	NA	Note:The facility did return to compliance for Nitrate monitoring in 2002.
SURFACE/TREATMENT.	H	Well #14 - BRINDLE LAKE RECREATION AREA
Flow Capacity(gpd).	DC	Approx. 20 gpm Permit # 3217705
Flow Depth.	DC	Approx. 359 ft. as per well drillers certif. (Well re-developed in 1999 when new well-house and equip installed).
Flow Diameter.	DC	6" dia.
Flow Location.	DC	Bldg. #9911 (adjacent to club-house/lodge) (Plumstead Twp. / Ocean Co.)
Method of Treatment.	IC	Disinfection only (calcium hypo. solution)
Contaminants Removed.	NA	
Does the water system provide water to at least 25 people for more than 60 days per year?	DC	YES

H - In Compliance
 DC - Out of Compliance
 NI - Not Inspected
 NOC - No Obvious Concern
 H - Heading
 - No

ND - Compliance Not Determined
 NA - Not Applicable
 PV - Potential Violation
 ON - Out of Compliance, Non-referred
 Y - Yes
 DC - Data Collection

Compliance Evaluation Report

Activity: SC1740001 *Standard Compliance Inspection

Lead Investigator: Stewart, David

25304 US ARMY FORT DIX, New Hanover Twp (SAFE DRINKING WATER)

Requirement	Status	Results or Comments
<p>Subject Item: WTNC - Water - Transient Non-Community</p> <p>Does the water system provide water to at least the same 25 people daily for at least 6 months?</p>	DC	<p>NO - Seasonal usage for mainly military personnel using the area for training facilities. Originally, installed to provide water supply for angler, sportsmen, campers, etc. However, not for the same regular customers during any one 60 day period.</p>
<p>STEM MONITORING REQUIREMENTS .</p>	H	
<p>Is Microbiological monitoring performed in accordance with the National Regulations?. [N.J.A.C. 7:10- 5.2(a)2]</p>	IC	
<p>Which monitoring period was reviewed? What were the number of microbiological samples required per quarter and how many were taken?. [N.J.A.C. 7:10- 5.2(a)2]</p>	IC	<p>Calendar Year 2003: (1) sample / quarter required (1) sample / quarter taken Sampled: 1st Qtr. 2003 - Not in use (still winterized)/not sampled 2nd Qtr. 2003 - 5/13/03 3rd Qtr. 2003 - 7/8/03 4th Qtr. 2003 - 10/23/03</p> <p>Also, 1st Qtr. 2004 - Not in use (still winterized)/not sampled 2nd Qtr. 2004 - Data not available</p>
<p>What was the nitrate sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]</p>	IC	<p>Sampled 4/29/03 for 2003 (Annual Req.)</p>
<p>What was the nitrite sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]</p>	NA	<p>Not required at this time as per the BSDW.</p>

I - In Compliance
 C - Out of Compliance
 I - Not Inspected
 C - No Obvious Concern
 - Heading
 - No

ND - Compliance Not Determined
 NA - Not Applicable
 PV - Potential Violation
 ON - Out of Compliance, Non-referred
 Y - Yes
 DC - Data Collection

Compliance Evaluation Summary

Activity: SCI040001 *Standard Compliance Inspection (0325305)

Start Date/Time: 2/25/2004 00:00 End Date/Time: 5/13/2004 00:00

Lead Investigator: Stewart, David

Other Investigators:

Persons Interviewed: Joe Pullen, Interim L.O./Foreman
Ft. Dix Water Plant
609-562-5040

Witnesses:

Program Interest: 0325305 US ARMY FORT DIX (SAFE DRINKING WATER)
AFRC-FA-PWO, BLDG 0099
New Hanover Twp, Burlington County

Responsible Entities: USDOD DEPT OF THE ARMY

Comments: RANGE HEADQUARTERS WELL (Year-Round Use)

1. Performed an initial inspection of the well-house on February 25, 2004 with a follow-up inspection & data review conducted March 5, 2003. In addition, due to various data requests from the BSDW and enforcement concerns, another site visit was performed on May 13, 2004 (following a meeting with Ft. Dix's Environmental staff) with further data submittals and evaluations were completed between May 28, 2004 through June 2, 2004. Accordingly, all monitoring and state data submittal requirements were addressed and verified for calendar years 2001 - 2003 (with the exception of the outstanding Nitrate monitoring & Public Notice violation(s) for calendar year 2001). These violations from 2001 are expected to be addressed as part of the current enforcement actions/settlement negotiations concernign the facility's (Ft. Dix) main water supply system (PW#0325001).
2. The Well-house appeared to be satisfactorily maintained with no significant maintenance or operational concerns observed or reported. Only minor or routine maintenance needs were discussed and agreed upon during the inspection.

Compliance Evaluation Report

Start Date: 2/25/2004 Page 1 of 2

Activity: SCIP040001 *Standard Compliance Inspection

Lead Investigator: Stewart, David

25305 US ARMY FORT DIX, New Hanover Twp (SAFE DRINKING WATER)

Requirement	Status	Results or Comments
Subject Item: WF01 - Water - Storage Unit 1		
STORAGE UNIT 1 INFORMATION.	H	
Location, Type, Capacity. [N.J.A.C. 7:19- 6.7(b)]	DC	5,000 gallon outdoor storage tank (with associated military vehicle & fire-truck fill station)
Subject Item: WT37 - Public Notice		
Does the purveyor provide public notice as required by the regulations. [N.J.A.C. 7:10- 5]	OC	Failure to provide public notice as required by the regulations. The facility did fail to Public Notice for the outstanding 2001 Nitrate monitoring violation. No need for public notice concerning 2003 requirements.
Subject Item: WTNC - Water - Transient Non-Community		
Does the purveyor monitor in accordance with the State Regulations: within 30 days of receipt of this document. [N.J.A.C. 7:10- 5]	NA	Note: the facility did return to compliance for Nitrate in 2002.
Subject Item: WELL #7 - RANGE HEADQUARTERS/CONTROL OFFICES		
Flow Capacity(gpd).	DC	Approx. 125 gpm (submersible pump)
Well Depth.	DC	Approx. 457 ft. (as per well driller's cert.)
Well Diameter.	DC	6 in.
Well Location.	DC	Range HQ Bldg. #3 (Ft. Dix Bldg. #9060A) located off Range Road (New Hanover Twp./Burlington Co.)
Method of Treatment.	IC	Disinfection Only (calcium hypo. solution)
Contaminants Removed.	NA	
Does the water system provide water to at least 25 people for more than 60 days per year?	DC	YES

- In Compliance
- Out of Compliance
- Not Inspected
- No Obvious Concern
- Heading
- No

- ND - Compliance Not Determined
- NA - Not Applicable
- PV - Potential Violation
- ON - Out of Compliance, Non-referred
- Y - Yes
- DC - Data Collection

Compliance Evaluation Report

Activity: SCJ040001 *Standard Compliance Inspection

25305 US ARMY FORT DIX, New Hanover Twp (SAFE DRINKING WATER)

Start Date: 2/25/2004 Page 2 of 2

Lead Investigator: Stewart, David

Requirement	Status	Results or Comments
-------------	--------	---------------------

Subject Item: WTNC - Water - Transient Non-Community

Does the water system provide water to at least the same 25 people daily for at least 6 months?	DC	NO - year-round usage by a limited number of military staff and an undisclosed number of seasonal Military, Coast Guard and/or Police use for training purposes (inconsistent).
---	----	---

STEM MONITORING REQUIREMENTS .	H	
--------------------------------	---	--

Has microbiological monitoring performed in accordance with the National Sanitation Regulations?. [N.J.A.C. 7:10- 5.2(a)2]	IC	YES Lab Cert.: Ft. Dix Environ. Lab (#03156) Henderson Labs (#15083)
--	----	---

Which monitoring period was reviewed? What were the number of microbiological samples required per quarter and how many were taken?. [N.J.A.C. 7:10- 5.2(a)2]	IC	Calendar Year 2003 (also, complete data review back to 2001 as part of active enforcement actions. Facility collected (1) sample/quarter & (1) sample/quarter required by BSDW. Sampling Dates: 1st Qtr. 2003 - 1/21/03 2nd Qtr. 2003 - 5/13/03 3rd Qtr. 2003 - 7/8/03 4th Qtr. 2003 - 10/23/03
---	----	--

What was the nitrate sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]	IC	Annual Sampling performed 4/29/03 (previous monitoring violation as referenced in comments of cover page)
---	----	---

What was the nitrite sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]	NA	Not required at this time as per the BSDW
---	----	---

- In Compliance
- Out of Compliance
- Not Inspected
- No Obvious Concern
- Heading
- No

- ND - Compliance Not Determined
- NA - Not Applicable
- PV - Potential Violation
- ON - Out of Compliance, Non-referred
- Y - Yes
- DC - Data Collection

Compliance Evaluation Summary

Activity: SCI040001 *Standard Compliance Inspection (0325306)

Start Date/Time: 3/5/2004 00:00 End Date/Time: 6/2/2004 00:00

Lead Investigator: Stewart, David

Other Investigators:

Persons Interviewed: Joe Pullen, Interim L.O.
Ft Dix Water Plant Foreman
(609) 562-5040

Witnesses:

Program Interest: 0325306 US ARMY FORT DIX STRATCO (SAFE DRINKING WATER)
BLDG 9650
New Hanover Twp, Burlington County

Responsible Entities: USDOD DEPT OF THE ARMY

- Comments:
1. Well information needed to update NJEMS file. Awaiting request for information as follows:
Well depth, casing size and any verification of pump capacity.
 2. Well re-started on 7/14/02 after extensive shut-down period. Gate was locked and access could not be gained for thorough inspection of well pit and clear-well (concrete pit). Staff informed DEP that the well shall be replaced with a pre-fab. well-house similar to those installed at several of the other remote locations. Also, this Bureau requested, in addition to the info. noted above, the specific date that the Well was shut-down and winterized during the 4th Qtr. of 2003. The Facility was advised that if the Well was used for service or supply anytime during the 4th Qtr. of 2003 then the Facility was required to sample for Coliform/Bact. only during the month(s) which the well was used, and that the facility should have notified the Dept. (this Bureau and the BSDW) that it intended to shut-down the Well for the winter season. This guidance was necessary since the Facility (Army) re-started the Well back in summer 2002, and failed to notify this Bureau or the BSDW. As such, the BSDW did not include the Well in its active files or include the Well in its monitoring/compliance evaluations starting July 2002.
 3. Well was sampled for Nitrate in 2003 (4/29/03) as required annually.

Compliance Evaluation Report

Start Date: 3/5/2004 Page 1 of 2

Activity: SCIO40001 *Standard Compliance Inspection

Lead Investigator: Stewart, David

25306 US ARMY FORT DIX STRATCO, New Hanover Twp (SAFE DRINKING WATER)

Requirement	Status	Results or Comments
-------------	--------	---------------------

Subject Item: WTNC - Water - Transient Non-Community

Source/Treatment.	H	Old STRAT-COM Site Well (Now called I/R Site - Well #13)
Well Capacity(gpd).	DC	Approx. 40 gpm
Well Depth.	DC	Unknown at this time (since tech. data not readily available via their Water Allocation Permit nor readily available from current operations staff during the inspections). Info. pending a recent data request sent to the Facility.
Well Diameter.	DC	Unknown at this time - See comment above.
Well Location.	DC	Off Range Road - Remote site at extreme end of Ft. Dix property in Manchester Twp./ Ocean Co. (Bldg. #9668)
Type of Treatment.	DC	Disinfection Only - Water not typically used for consumption.
Contaminants Removed.	NA	
Does the water system provide water to at least 25 people for more than 60 days per year?	DC	Yes
Does the water system provide water to at least the same 25 people daily for at least 6 months?	DC	No - undetermined usage and no estimates given due to security concerns. Military use as needed with the site used for training.
SYSTEM MONITORING REQUIREMENTS .	H	
Is Microbiological monitoring performed in accordance with the National Sanitation Code? [N.J.A.C. 7:10- 5.2(a)2]	IC	Yes (for those quarters in which the Well was known to be in use for supply purposes). However, additional information is pending for those transition months in which the Well may have been used only a limited number of days before seasonal shut-down and possibly not sampled at least once during the quarter.

- In Compliance
- Out of Compliance
- Not Inspected
- No Obvious Concern
- Heading
- No

- ND - Compliance Not Determined
- NA - Not Applicable
- PV - Potential Violation
- ON - Out of Compliance, Non-referred
- Y - Yes
- DC - Data Collection

Compliance Evaluation Report

Activity: SCI040001 *Standard Compliance Inspection

25306 US ARMY FORT DIX STRATCO, New Hanover Twp (SAFE DRINKING WATER)

Start Date: 3/5/2004 Page 2 of 2

Lead Investigator: Stewart, David

Requirement	Status	Results or Comments
-------------	--------	---------------------

Subject Item: WTNC - Water - Transient Non-Community

Which monitoring period was reviewed? What were the number of microbiological samples required per quarter and how many were taken?. [N.J.A.C. 7:10- 5.2(a)2]

IC Calendar Year 2003 (including review of data for part of 2002 & 2004). (1) sample required/quarter when Well is operated to provide water for use (not just for sampling purposes). (1) sample taken/quarter when Well in use.

Sampling Dates:

3rd Qtr. 2002 - 8/13/02

4th Qtr. 2002 - 10/2/02

1st Qtr. 2003 - 1/21/03

2nd Qtr. 2003 - 5/13/03

3rd Qtr. 2003 - 7/8/03

4th Qtr. 2003 - Not Sampled - Well shut-down

Note: 1st Qtr. 2004 - Well still off-line.

2nd Qtr. 2004 - results pending

Also, still awaiting the specific dates the Well was shut-down and restarted seasonally for the following: Shut-down during 4th Qtr. 2002 & 4th Qtr. 2003, and Start-up date during either late 1st Qtr. or early 2nd Qtr. 2004 (since the Well was used through 10/2/02 (4th Qtr. 2002) and no Coliform/Bact. sampling was recorded for the entire 4th Qtr. 2003 or 1st Qtr. 2004). Info. needed to determine compliance for partial use during the specified quarters.

What was the nitrate sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]

IC Sampled 4/29/03
Sampling also performed 4/9/02 (for Calendar Year 2002 since Well re-started in July 2002 and used during the 3rd Qtr. & part of the 4th Qtr. 2002 (facility to provide exact date of shut-down for winterization).
2001 Monitoring - Not Sampled / Well not in use.

What was the nitrite sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]

NA Not required at this time as per the BSDW.

- In Compliance
- Out of Compliance
- Not Inspected
- No Obvious Concern
- Heading
- No

- ND - Compliance Not Determined
- NA - Not Applicable
- PV - Potential Violation
- ON - Out of Compliance, Non-referred
- Y - Yes
- DC - Data Collection

Compliance Evaluation Summary

Activity: SCI040001 *Standard Compliance Inspection (0325307)

Start Date/Time: 2/25/2004 00:00 End Date/Time: 5/13/2004 00:00

Lead Investigator: Stewart, David

Other Investigators:

Persons Interviewed: Joe Pullen, Interim L.O./Foreman
Ft. Dix Water Plant
609-562-5040

Witnesses:

Program Interest: 0325307 US ARMY FORT DIX BIV 18 (SAFE DRINKING WATER)
AFRC-FA-PWO, BLDG 0099
New Hanover Twp, Burlington County

Responsible Entities: USDOD DEPT OF THE ARMY

Comments: BIVOUAC AREA #18 WELL (Seasonal Usage)

1.) Conducted their annual inspection of the well-house on 2/25/04 with a follow-up insp./data review on 3/5/04. In addition, due to various data requests from the BSDW and enforcement concerns, another was performed on 5/13/04 (following a meeting with Ft. Dix's environmental staff) with further data submittals and evaluations completed between 5/28/04 and 6/2/04. Accordingly, all monitoring and state submittals requirements were addressed and verified for compliance for calendar years 2001 -2003. It was determined that an outstanding violation for failure to monitor Nitrate (annual for calendar 2001) including Public Notice Req. remains to be settled, and is expected to be addressed as part of current enforcement proceedings with the Army.

Sampling for VOC's (conducted by the Army although not specifically required for this facility) revealed detectable & low-level concentrations for various parameters. As such, the facility was advised that additional quarterly monitoring would be preferred to allow them to verify and assess any contamination concerns. The facility sampled during the following quarterly monitoring periods as follows: 3rd Qtr. 2003 on 7/10/03 and 4th Qtr. 2003 on 10/23/03. The Well was not on-line during the 1st Quarters of 2003 and 2004 with sampling also not performed the 2nd Qtr. 2003. Prior sampling activities for VOC's between 1999 and 2002 were inconsistent or sporadic at best.

2.) The Well-house appeared to be satisfactorily maintained with no significant maintenance or operational concerns observed or reported. Only minor or routine maintenance needs were discussed and agreed upon during the inspection.

Compliance Evaluation Report

Activity: SC1040001 *Standard Compliance Inspection

25307 US ARMY FORT DIX BIV 18, New Hanover Twp (SAFE DRINKING WATER)

Start Date: 2/25/2004 Page 1 of 2

Lead Investigator: Stewart, David

Requirement	Status	Results or Comments
-------------	--------	---------------------

Subject Item: WF01 - Water -Storage Unit 1

STORAGE UNIT 1 INFORMATION.

H

Location, Type, Capacity. [N.J.A.C. 7:19- 6.7(b)]

DC

1,000 gallon hydro-pneumatic tank in bldg. to maintain vol./pressure.

Subject Item: WF02 - Water -Storage Unit 2

STORAGE UNIT 2 INFORMATION.

H

Location, Type, Capacity. [N.J.A.C. 7:19- 6.7(b)]

DC

5,000 gallon exterior above ground tank - used for filling military and fire protection vehicles.

Was at the VOC sample date(s), compliance period and sample frequency? [N.J.A.C. 7:10- 5.2(a)7]

DC

Note: The facility continues to perform voluntary quarterly monitoring for VOC's to gather data and assess the status of the Well. Test results have indicated measureable concentration of various parameters (#2943, #2941, #2944 and #2251 (MTBE) over various quarters (sampling has been sporadic). Most recent events were 3rd Qtr. 2003 (7/10/03) & 4th Qtr. 2003 (10/23/03). Well off-line 1st Qtr. 2003 & 2004 with no sampling done 2nd Qtr. 2003 (no explanation by facility).

Subject Item: WT37 - Public Notice

Did the purveyor provide public notice as required by the regulations. [N.J.A.C. 7:10-

OC

Failure to provide public notice as required by the regulations. The facility did fail to Public Notice for the 2001 Nitrate monitoring viol. as referenced in the comments on the cover page of this report.

WELL SOURCE/TREATMENT.

H

WELL #10 - BIVOUAC TRAINING AREA #18

Flow Capacity(gpd).

DC

Approx. 20 gpm (low volume & use) Submersible pump.

Well Depth.

DC

Approx. 103 ft. (as per well drillers cert.)

Well Diameter.

DC

4"

Well Location.

DC

Off - Range Road (Bldg. #9446)
(New Hanover Twp. / Burlington Co.)

- In Compliance
- Out of Compliance
- Not Inspected
- No Obvious Concern
- Heading
- No

- ND - Compliance Not Determined
- NA - Not Applicable
- PV - Potential Violation
- ON - Out of Compliance, Non-referred
- Y - Yes
- DC - Data Collection

Compliance Evaluation Report

Start Date: 2/25/2004 Page 2 of 2

Activity: SCI040001 *Standard Compliance Inspection

Lead Investigator: Stewart, David

25307 US ARMY FORT DIX BIV 18, New Hanover Twp (SAFE DRINKING WATER)

Requirement	Status	Results or Comments
-------------	--------	---------------------

Subject Item: WTNC - Water - Transient Non-Community

Type of Treatment.	IC	Disinfection Only (calcium hypo. solution)
--------------------	----	--

Does the water system provide water to at least 25 people for more than 60 days per year?	DC	YES
---	----	-----

Does the water system provide water to at least the same 25 people daily for at least 6 months?	DC	NO - Seasonal Military, Police or Coast Guard Use. No consistent or regular users for any 60 day period or essentially as needed per military activities.
---	----	---

STEM MONITORING REQUIREMENTS .	H	
--------------------------------	---	--

Are microbiological monitoring performed in accordance with the National Sanitation Regulations?. [N.J.A.C. 7:10- 5.2(a)2]	IC	YES NJ. Cert. Lab(s): Ft. Dix Environ. Lab (#03156) Henderson Labs (#15083)
--	----	--

Which monitoring period was reviewed? What were the number of microbiological samples required per quarter and how many were taken?. [N.J.A.C. 7:10- 5.2(a)2]	IC	Calendar Year 2003 (however, as part of the extensive data review recently performed data for 2001 & 2002 was also confirmed. (1) sample taken/quarter with (1) sample required/quarter as per the BSDW. Sampling dates for 2003 as follows: 1st Qtr. 2003 - No samples - Well off-line (winterized) 2nd Qtr. 2003 - 5/13/03 3rd Qtr. 2003 - 7/8/03 4th Qtr. 2003 - 10/23/03 Also, 1st Qtr. 2004 - No samples - Well off-line (winterized)
---	----	---

What was the nitrate sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]	IC	Sampled 4/29/03 for calendar year 2003 (Annual Req.)
---	----	--

What was the nitrite sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]	NA	Sampling not required at this time as per the BSDW.
---	----	---

· In Compliance
· Out of Compliance
· Not Inspected
· No Obvious Concern
Heading
No

ND - Compliance Not Determined
NA - Not Applicable
PV - Potential Violation
ON - Out of Compliance, Non-referred
Y - Yes
DC - Data Collection

Compliance Evaluation Summary

Activity: SCI040001 *Standard Compliance Inspection (0325308)

Start Date/Time: 2/25/2004 00:00 End Date/Time: 5/13/2004 00:00

Lead Investigator: Stewart, David

Other Investigators:

Persons Interviewed: Joe Pullen, Interim L.O./Foreman
Ft. Dix Water Plant
609-562-5040

Witnesses:

Program Interest: 0325308 US ARMY FORT DIX BIV 20 (SAFE DRINKING WATER)
AFRC-FA-PWO, BLDG 0099
New Hanover Twp, Burlington County

Responsible Entities: USDOD DEPT OF THE ARMY

Comments: BIVOUAC AREA #20 (Seasonal Use)

1.) Performed the annual inspection of the well on 2/25/04 with a follow-up and data review conducted on 3/5/04. In addition, due to various data requests from the BSDW & EPA, and enforcement concerns, another site visit was performed on 5/13/04 (following a meeting with Ft. Dix's Environmental staff). Accordingly, all monitoring and state data submittal requirements for calendar years 2001 - 2003 were addressed and verified (with the exception of the outstanding Nitrate monitoring violation for 2001 including failure to Public Notice). These violations are anticipated to be addressed/settled as part of a current enforcement action with the Army.

2.) The Well-house appeared to be satisfactorily maintained with no significant maintenance or operational problems observed or reported. Only minor or routine maintenance needs were discussed and agreed upon during the inspection.

Compliance Evaluation Report

Start Date: 2/25/2004 Page 1 of 2

Activity: SCI040001 *Standard Compliance Inspection

Lead Investigator: Stewart, David

25308 US ARMY FORT DIX BIV 20, New Hanover Twp (SAFE DRINKING WATER)

Requirement	Status	Results or Comments
Subject Item: WF01 - Water -Storage Unit 1		
STORAGE UNIT 1 INFORMATION.	H	
Location, Type, Capacity. [N.J.A.C. 7:19- 6.7(b)]	DC	1,000 gallon hyrdo-pneumatic tank in bldg. to maintain vol./pressure.
Subject Item: WF02 - Water -Storage Unit 2		
STORAGE UNIT 2 INFORMATION.	H	
Location, Type, Capacity. [N.J.A.C. 7:19- 6.7(b)]	DC	5,000 gallon outdoor above-ground tank used for filling Military water transport and Fire Protection vehicles as needed.
Subject Item: WT37 - Public Notice		
The purveyor provide public notice as required by the regulations. [N.J.A.C. 7:10-	OC	Failure to provide public notice as required by the regulations. Not required for 2003 monitoring period. However, the facility failed to do Public Notice regarding the outstanding 2001 Nitrate monitoring violation as referenced in the comments section of this reports cover page.
WELL #11 - BIVOUAC TRAINING AREA #20		
SRCE/TREATMENT.	H	
Flow Capacity(gpd).	DC	Approx. 50 gpm (submersible pump)
Well Depth.	DC	Approx. 118 ft. (as per well drillers cert.)
Well Diameter.	DC	6 in.
Well Location.	DC	Off - Range Road (Bldg. #9443) New Hanover Twp. / Burlington Co.
Type of Treatment.	IC	Disinfection (calcium hypo. sol.), and pH adjust. (via 2 neutralization filters). The filters have backwash capability. However, the Army indicated that they are only used for pH adjust.
Does the water system provide water to at least 25 people for more than 60 days per	DC	YES

- In Compliance
 - Out of Compliance
 - Not Inspected
 - No Obvious Concern
 - Heading
 - No

ND - Compliance Not Determined
 NA - Not Applicable
 PV - Potential Violation
 ON - Out of Compliance, Non-referred
 Y - Yes
 DC - Data Collection

Compliance Evaluation Report

Activity: SC1040001 *Standard Compliance Inspection

Lead Investigator: Stewart, David

25308 US ARMY FORT DIX BIV 20, New Hanover Twp (SAFE DRINKING WATER)

Requirement	Status	Results or Comments
Subject Item: WTNC - Water - Transient Non-Community Does the water system provide water to at least the same 25 people daily for at least 6 months?	DC	NO - Military, Police & Coast Guard use - inconsistent staff due to sporadic military needs/scheduling (as needed). Thus, no consistent staff use for any 60 day period.
STEM MONITORING REQUIREMENTS .	H	
Is Microbiological monitoring performed in accordance with the National Regulations?. [N.J.A.C. 7:10- 5.2(a)2]	IC	YES NJ Cert. Labs: Ft. Dix Environ. Lab (#01356) Henderson Labs (#15083)
Which monitoring period was reviewed? What were the number of microbiological samples required per quarter and how many were taken?. [N.J.A.C. 7:10- 5.2(a)2]	IC	Calendar Year 2003 (However, during the extensive enforcement/compliance data review completed 6/2/04, data for calendar years 2001 - 2002 were also evaluated as referenced in the comments on the cover sheet. Facility sampled (1)/quarter with (1) sample/quarter required. 2003 Sampling Dates: 1st Qtr. 2003 - Not Sampled - Well off-line (winterized) 2nd Qtr. 2003 - 5/13/03 3rd Qtr. 2003 - 7/8/03 4th Qtr. 2003 - 10/23/03 Also, 1st Qtr. 2004 - Not Sampled - Well off-line (winterized) 2nd Qtr. 2004 - results not available
What was the nitrate sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]	IC	Annual Monitoring for calendar year 2003 was performed on 4/29/03. However, as referenced on the cover sheet above, the still outstanding Nitrate monitoring violation and penalty liability from calendar year 2001 still remains and is expected to be resolved/settled along with the current enforcement action with the Army (concerning PW #0325001).
What was the nitrite sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]	NA	Sampling not required at this time as per the BSDW.

- In Compliance
- Out of Compliance
- Not Inspected
- No Obvious Concern
- Heading
- No

- ND - Compliance Not Determined
- NA - Not Applicable
- PV - Potential Violation
- ON - Out of Compliance, Non-referred
- Y - Yes
- DC - Data Collection

Compliance Evaluation Summary

Activity: SCI040001 *Standard Compliance Inspection (0325309)

Start Date/Time: 2/25/2004 00:00 End Date/Time: 5/13/2004 00:00

Lead Investigator: Stewart, David

Other Investigators:

Persons Interviewed: Joe Pullen, Interim L.O./Foreman
Ft. Dix Water Plant
609-562-5040

Witnesses:

Program Interest: 0325309 US ARMY FORT DIX BIV 22 (SAFE DRINKING WATER)
AFRC-FA-PWO, BLDG 0099
New Hanover Twp, Burlington County

Responsible Entities: USDOD DEPT OF THE ARMY

Comments: BIVOUAC TRAINING AREA #22A WELL (Seasonal Use)

- 1.) Performed annual inspection of Well-house on 2/25/04 with a follow-up inspection/data review conducted on 3/5/04. In addition, another site meeting and data review was performed on 5/13/04 (following a meeting with Ft. Dix's Environ. staff). Accordingly, all monitoring and state data submittal requirements for calendar years 2001 & 2002 were also addressed and verified (with the exception being the still outstanding Nitrate monitoring violation for 2001 including the failure to do Public Notice). These violations are expected to be addressed via current enforcement proceedings concerning Ft. Dix's primary water supply system (PW #0325001).
- 2.) Well satisfactorily maintained with no significant operational problems observed or reported during the inspection. Only minor or routine maintenance needs were discussed and agreed upon during the site inspection.

Compliance Evaluation Report

Start Date: 2/25/2004 Page 1 of 2

Activity: SC1040001 *Standard Compliance Inspection

Lead Investigator: Stewart, David

25309 US ARMY FORT DIX BIV 22, New Hanover Twp (SAFE DRINKING WATER)

Requirement	Status	Results or Comments
Subject Item: WF01 - Water - Storage Unit 1		
DRAGE UNIT 1 INFORMATION.		
	H	
ation, Type, Capacity. [N.J.A.C. 7:19- 6.7(b)]	DC	1,000 gallon hydro-pneumatic tank inside bldg. to maintain vol.pressure.
Subject Item: WF02 - Water - Storage Unit 2		
DRAGE UNIT 2 INFORMATION.		
	H	
ation, Type, Capacity. [N.J.A.C. 7:19- 6.7(b)]	DC	5,000 gallon outdoor above ground tank to provide water supply for military perosnnel and for fire protection needs (truck fill station adjacent to Well-house).
Subject Item: WT37 - Public Notice		
the purveyor provide public notice as required by the regulations. [N.J.A.C. 7:10-	OC	Failure to provide public notice as required by the regulations. Not required for calendar year 2003 monitoring/operation. However, the still outstanding Nitrate monitoring violation from 2001 required Public Notice which was not performed.
Subject Item: WTNC - Water - Transient Non-Community		
orm monitoring in accordance with the State Regulations: within 30 days of receipt is document. [N.J.A.C. 7:10- 5]	NA	Note: the facility returned to compliance for Nitrate by sampling during calendar year 2002 (on 4/9/02).
WELL #12 - BIVOUAC TRAINING AREA #22A		
ORCE/TREATMENT.	H	
Capacity(gpd).	DC	Approx. 20 gpm (low volume usage) Submersible pump
Depth.	DC	Approx. 125 ft. (as per well driller's cert.)
Diameter.	DC	6 in.
Location.	DC	Off- Range Road Bldg. #9332 Plumbstead Twp./Ocean Co.

- In Compliance
 - Out of Compliance
 - Not Inspected
 - No Obvious Concern
 - Heading
 - No

ND - Compliance Not Determined
 NA - Not Applicable
 PV - Potential Violation
 ON - Out of Compliance, Non-referred
 Y - Yes
 DC - Data Collection

Compliance Evaluation Report

Activity: SCIO40001 *Standard Compliance Inspection

Lead Investigator: Stewart, David

25309 US ARMY FORT DIX BIV 22, New Hanover Twp (SAFE DRINKING WATER)

Requirement	Status	Results or Comments
-------------	--------	---------------------

Subject Item: WTNC - Water - Transient Non-Community

type of Treatment.	IC	Disinfection Only (calcium hypo. sol.)
Does the water system provide water to at least 25 people for more than 60 days per month?	DC	YES
Does the water system provide water to at least the same 25 people daily for at least 6 months?	DC	NO - Provides water for Military, Police and Coast Guard personnel as needed on a seasonal basis. The Well does not provide water to the regular staff for any 60 day period. Transient staff based upon military needs and scheduling which is undetermined for security reasons.
STEM MONITORING REQUIREMENTS .	H	
Does microbiological monitoring performed in accordance with the National Sanitation Regulations? [N.J.A.C. 7:10- 5.2(a)2]	IC	YES NJ Cert. Labs: Ft. Dix Environ. Lab (#03156) Henderson Labs (#15083)
Which monitoring period was reviewed? What were the number of microbiological samples required per quarter and how many were taken? [N.J.A.C. 7:10- 5.2(a)2]	IC	Calendar Year 2003 (however, due to the necessity of extensive data requests and evaluation to assist the BDSW & EPA, calendar years 2001 & 2002 were also re-evaluated). The facility took (1) sample/quarter as required. Sampling Dates for 2003: 1st Qtr. 2003 - Not Sampled - Well off-line (winterized) 2nd Qtr. 2003 - 5/13/03 3rd Qtr. 2003 - 7/8/03 4th Qtr. 2003 - 10/23/03 Also, 1st Qtr. 2004 - Not Sampled - Well off-line (winterized) 2nd Qtr. 2004 - Results not available
What was the nitrate sample date(s) and sampling frequency? [N.J.A.C. 7:10- 5.1]	IC	Annual Sampling for calendar year 2003 performed 4/29/03.
What was the nitrite sample date(s) and sampling frequency? [N.J.A.C. 7:10- 5.1]	NA	Monitoring not required as per the BSDW.

- In Compliance
- Out of Compliance
- Not Inspected
- No Obvious Concern
- Heading
- No

- ND - Compliance Not Determined
- NA - Not Applicable
- PV - Potential Violation
- ON - Out of Compliance, Non-referred
- Y - Yes
- DC - Data Collection

Compliance Evaluation Summary

Activity: SCI040001 *Standard Compliance Inspection (0325315)

Start Date/Time: 2/25/2004 00:00 End Date/Time: 5/13/2004 00:00

Lead Investigator: Stewart, David

Other Investigators:

Persons Interviewed: Joe Pullen, Interim L.O./Foreman
Ft. Dix Water Plant
609-562-5040

Witnesses:

Program Interest: 0325315 RANGE 14 GUN & ARCHERY CLUB (SAFE DRINKING WATER)
AFRC-FA-PWO, BLDG 0099
New Hanover Twp, Burlington County

Responsible Entities: USDOD DEPT OF THE ARMY

Comments: RANGE #14 - FORT DIX ROD & GUN CLUB WELL (Year-Round Use)

1.) Performed inspection of Well-house on 3/5/04 with a follow-up on 5/13/04 (after a meeting at Ft. Dix with their Environ. staff for an enforcement meeting). Accordingly, all monitoring and state data submittal requirements for calendar years 2001 & 2002 were also addressed and verified (with exception of the still outstanding Nitrate monitoring violation for calendar year 2001 (including failure to do Public Notice). These violations and associated penalty liability are expected to be resolved/settled via current enforcement proceedings concerning Ft. Dix's primary water supply system (PW #0325001).

2.) The well appeared to be satisfactorily maintained with no significant problems observed or reported during the inspection. Only minor or routine maintenance needs were discussed and agreed upon following the inspection (other than the damaged/inoperable in-line water meter which needed to be replaced ASAP following the inspection since increased water demand was expected due to anticipated increases in use of all rifle range and practice facilities located on Ft. Dix.

Compliance Evaluation Report

Activity: SC1940001 *Standard Compliance Inspection

25315 RANGE 14 GUN & ARCHERY CLUB, New Hanover Twp (SAFE DRINKING WATER)

Start Date: 2/25/2004 Page 1 of 2

Lead Investigator: Stewart, David

Requirement	Status	Results or Comments
-------------	--------	---------------------

Subject Item: WF01 - Water -Storage Unit 1

ORANGE UNIT 1 INFORMATION.

H

Location, Type, Capacity. [N.J.A.C. 7:19- 6.7(b)]

DC

1,000 gallon hydro-pneumatic tank inside Well-house to maintain volume/pressure.

Subject Item: WF02 - Water -Storage Unit 2

ORANGE UNIT 2 INFORMATION.

H

Location, Type, Capacity. [N.J.A.C. 7:19- 6.7(b)]

DC

5,000 gallon outdoor above-ground storage tank used by the Military to fill water supply vehicles for the Range & Bivouac Areas and for Fire Protection vehicle (overhead fill/supply hose).

Subject Item: WT37 - Public Notice

Did the purveyor provide public notice as required by the regulations. [N.J.A.C. 7:10-]

OC

Failure to provide public notice as required by the regulations. Review of 2003 data does not warrant any Public Notice actions. However, the still outstanding violation for failure to provide Public Notice (for the 2001 Nitrate monitoring viol.) shall be addressed as referenced in the cover sheet to this inspection report.

Subject Item: WTNC - Water - Transient Non-Community

Form monitoring in accordance with the State Regulations: within 30 days of receipt of this document. [N.J.A.C. 7:10- 5]

NA

Note: Facility returned to compliance for annual Nitrate monitoring during calendar year 2002 (sampled 4/9/02).

SURFACE/TREATMENT.

H

FORT DIX ROD & GUN CLUB WELL (No specific well # designation like the other Wells)

Flow Capacity(gpd).

DC

Approx. 40 gpm (submersible pump)

Well Depth.

DC

Approx. 290 ft. (as per well driller's cert.)

Well Diameter.

DC

8 in.

I - In Compliance

C - Out of Compliance

I - Not Inspected

OC - No Obvious Concern

Y - Heading

N - No

ND - Compliance Not Determined

NA - Not Applicable

PV - Potential Violation

ON - Out of Compliance, Non-referred

Y - Yes

DC - Data Collection

Compliance Evaluation Report

Activity: SCIC40001 *Standard Compliance Inspection

25315 RANGE 14 GUN & ARCHERY CLUB, New Hanover Twp (SAFE DRINKING WATER)

Start Date: 2/25/2004 Page 2 of 2

Lead Investigator: Stewart, David

Requirement	Status	Results or Comments
-------------	--------	---------------------

Subject Item: WTNC - Water - Transient Non-Community

Well Location.	DC	Off-Range Road (Bldg.#9060) Located in end of lodge/club-house used for meetings and firearms education. (North Hanover Twp. / Burlington Co.)
----------------	----	--

Type of Treatment.	IC	Disinfection Only (calcium hypo. sol.)
--------------------	----	--

Does the water system provide water to at least 25 people for more than 60 days per year?	DC	YES
---	----	-----

Does the water system provide water to at least the same 25 people daily for at least 6 months?	DC	NO - Facility used intermittently year-round by sportsmen and military personnel. Site has various rifle ranges and out-buildings. Overall site used for firearms and hunter safety education as well as various hunting/fishing club activities. However, no particular group uses the site on any continuous basis for any single 60 day period.
---	----	--

STEM MONITORING REQUIREMENTS .	H	
--------------------------------	---	--

Are microbiological monitoring performed in accordance with the National Regulations?. [N.J.A.C. 7:10- 5.2(a)2]	IC	Yes NJ Cert. Labs Contracted: Ft. Dix Environ. Lab (#03156) Henderson Labs (#15083)
---	----	--

Which monitoring period was reviewed? What were the number of microbiological samples required per quarter and how many were taken?. [N.J.A.C. 7:10- 5.2(a)2]	IC	Calendar Year 2003 (however, as referenced on the cover sheet above, a review of the data submittals for calendar years 2001 & 2002 were also conducted due to enforcement concerns and requests by both the BSDW & EPA. Sampling Dates For 2003: 1st Qtr. 2003 - 1/21/03 2nd Qtr. 2003 - 5/13/03 3rd Qtr. 2003 - 7/8/03 4th Qtr. 2003 - 10/23/03
---	----	--

What was the nitrate sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]	IC	Annual Sampling req. satisfied since well was sampled for Nitrate on 4/29/03. The previous monitoring still to be resolved/settled from 2001 (as referenced on the cover sheet) is anticipated to be addressed via current enforcement proceedings with the Army (re: PW #0325001)
---	----	---

What was the nitrite sample date(s) and sampling frequency?. [N.J.A.C. 7:10- 5.1]	NA	Sampling not required in 2003 or 2004 as per the BSDW.
---	----	--

C - In Compliance
 C - Out of Compliance
 I - Not Inspected
 C - No Obvious Concern
 - Heading
 - No

ND - Compliance Not Determined
 NA - Not Applicable
 PV - Potential Violation
 ON - Out of Compliance, Non-referred
 Y - Yes
 DC - Data Collection