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Project Number 2128

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Reference: Contract No. N62467-94-D-0888 (CLEAN)
Contract Task Order No. 0843
Naval Weapons Station Earle
Colts Neck, New Jersey

Subject: Technical Memorandum: Extent of Groundwater Contamination at Site 26 Operable Unit 3 (OU 3).

Dear Ms. DiGeambeardino:

1. Introduction

This technical memorandum summarizes the current status of the groundwater investigation and remedial action at Site 26 (see Figure 1). Tetra Tech NUS has been tasked to evaluate certain conditions at this site, including whether the PCE component of the site's VOC plume warrants regulatory administration as a separate operable unit, whether all impacted groundwater can be managed through a single or common classification exception area (CEA), and if so, how the extent or boundaries of the CEA should be defined. The primary conclusions reached within this memorandum are:

- The hydrogeological and chemical data do not support the need to establish a separate operable unit (OU-7) for the PCE. The data indicate that there is a dissolved-phase VOC plume that contains TCE and PCE as its principal components. The TCE component of the plume commonly contains 1,2-DCE, which is the first or primary breakdown product of TCE. The TCE and PCE components within the plume appear to emanate from separate sources, but generally overlap and merge into a common plume downgradient of these sources. The downgradient extents of the TCE and PCE components were identical at the time of the delineation through the temporary well screening investigation. The lateral extent of the PCE component was somewhat greater than the TCE component due to the more southerly location of the PCE source.

- The AS/SVE system is removing the TCE and PCE components at their apparent sources. Conceptually, the reduction or removal of the sources of the VOC plume should eventually result in the reduction of both the magnitude and extent of the plume as it naturally attenuates. The limited existing data indicate that the plume is attenuating, but additional groundwater monitoring points are needed to verify this hypothesis.

- Sentry monitoring wells installed outside (downgradient) of the VOC plume indicate that even if the plume is not currently contracting or attenuating, it also is not continuing to migrate downgradient or increase its lateral extent. Under a worst-case scenario, the plume is simply at steady-state condition.
- The similar and overlapping nature and extent of the various chemical components of the VOC plume support the creation of a single CEA for the total extent of the VOC plume. The sentry monitoring wells are ideally located to define the outer boundary of the CEA. Although the existing data indicate that it is

extremely unlikely that impacted groundwater could migrate beyond the CEA, the sentry wells are located in optimum positions to assure (through monitoring) that any impacted groundwater that does migrate beyond the CEA will be detected.

2. Overview

2.1 Remedial Investigation (RI) Activities

The site RI (RI Addendum Report, January 1998) delineated a groundwater plume of chlorinated hydrocarbons that emanated from the former process leach tank at Building GB-1 and extended approximately 350 feet southwest from this source. The major organic constituents were TCE and 1,2-DCE, which is a breakdown product of TCE. The TCE concentrations in the vicinity of the leach tank were as high as 9,000 ug/L in the groundwater (at 26MW01) and 74.0 ug/kg in the soil. Groundwater samples obtained from permanent and temporary (direct push) monitoring wells exhibited a wide range of chlorinated compounds at concentrations above regulatory guidelines. In addition to the TCE and 1,2-DCE, organic compounds detected at concentrations exceeding regulatory levels included 1,1-DCE, methylene chloride, and PCE. Figure 2 (Figure 10-5 of the RI Addendum Report) illustrates the location and concentration of compounds in groundwater exceeding regulatory screening levels in 1997. Therefore, although PCE had not been detected at the leach tank, the presence of PCE within the groundwater in the general vicinity of Building GB-1 was known at the conclusion of the RI. No special note of the PCE was taken at this time, as it simply was interpreted to be one of the VOC components of the site's groundwater plume.

The ROD for OU-3 was signed in September 1998. The selected remedial alternative included air sparging with soil vapor extraction (AS/SVE), source removal, institutional controls, and long-term monitoring. Foster Wheeler Environmental Corporation (FWENC) was selected to perform pre-design studies and the design and construction of the selected remedy.

2.2 Post-RI Activities

As part of their pre-design studies, FWENC was tasked to investigate the septic tank and leaching system of former Building GB-2, which was located to the southwest of Building GB-1 and which had been demolished in 1998. The former septic system for GB-2 was similar to the process leaching system for GB-1, and unverified suspicions indicated that the GB-2 septic system may have been used for disposal in a manner similar to the GB-1 system. FWENC obtained the following environmental samples between August 1999 and March 2000:

- Five soil samples from six borings (SB01 - SB06) in close proximity to the septic tank at the former Building GB-2 and one soil sample from a soil boring (SB07) located beneath a nearby abandoned painting equipment area. The soil boring locations are illustrated in Figure 3. Samples were submitted for TCL VOC analysis. All samples were non-detect for all VOCs except for 2-butanone, a common laboratory solvent that is not a compound of concern at this site (2-butanone was also found in the trip blank).

- One aqueous liquid sample from the septic tank at the former Building GB-2. There was no appreciable amount of sludge in the tank. The sample was submitted for TCL VOC analysis. No VOCs were detected.

- One surface water sample (26SW01) upstream and one surface water sample (26SW02) and sediment sample (26SD02) downstream from Site 26 in the Mingamahone Brook. Two surface water (26SW03 and 26SW04) and one sediment sample (26SD01) were collected in the Mingamahone Brook southwest of Site 26 and in the projected path of groundwater migrating from the Site 26 area. The locations of the surface water and sediment samples are illustrated in Figure 4. Samples were submitted for TCL VOC analysis. No VOCs were detected in any surface water or sediment samples.

- Groundwater samples from 4 monitoring wells and 72 direct-push (hydropunch) temporary well screening locations. The coverage area for the screening wells was far greater than that of the permanent wells, and eventually extended to the western banks of Mingamahone Brook. All samples were analyzed for VOCs and selected monitoring well samples were analyzed for metals for AS/SVE system design purposes. The analytical results from the monitoring wells were very similar to those from the RI, with the highest concentration of TCE detected at monitoring well 26MW01 (9,300 ug/L). The groundwater samples from the screening wells contained TCE at concentrations ranging up to 2,000 ug/L, 1,2-DCE at concentrations ranging up to 1,700 ug/L, and PCE at concentrations ranging up to 77 ug/L. The analytical results from this sampling effort are illustrated in Figure 5.

The analytical results from the screening wells indicated that the VOC plume extended farther downgradient from the source (to the vicinity of Mingamahone Brook) than was possible to interpret or depict with the then-existing monitoring well network, and that PCE was a fairly consistent component of the plume, in addition to the primary components of TCE and 1,2-DCE. The screening results also indicated that the PCE component of the plume extended further to the south than the multi-component segment of the plume (also beyond the existing monitoring well network), resulting in the delineation of a plume segment containing only the PCE component. Similar to the mixed-component portion of the plume, the VOC plume segment containing only PCE extended downgradient to the vicinity of Mingamahone Brook. The historical VOC concentrations through time in the monitoring wells (consistent VOC concentrations) and the lateral distribution of VOCs as delineated in the screening wells (VOC concentrations are highest upgradient near the source and decrease in the downgradient direction to eventual non-detections) are consistent with the existence of a steady-state plume emanating from a residual source(s), but it is impossible to prove this hypothesis because the screening well data represent a single "snapshot" in time that does not permit an evaluation of the temporal variability (or consistency) of the VOC plume.

OU-7 was established as a result of the FWENC investigations. OU-7 is defined as the PCE component of the VOC plume.

During the construction of the AS/SVE system, the Navy installed 7 additional monitoring wells (26MW07 through 26MW-13, see Figure 1) to aid in the evaluation of the progress of the groundwater remediation. As a result of the expanded VOC plume that was delineated through the temporary well program, the Navy installed an additional 5 monitoring wells (26MW14 through 26 MW18, see Figure 1) downgradient (or beyond) the delineated plume. Because it was not known whether the plume was at a steady-state condition or was continuing to migrate, these wells were intentionally installed downgradient of the plume to serve as "sentry" wells that would indicate if the plume continued to migrate beyond its extent as delineated by the screening wells.

2.3 Groundwater Flow Conditions

Borings drilled during the RI and post-RI activities consistently detected a semi-confining clay layer underlying the entire site at variable depths of up to 25 feet below ground surface, depending on the surface elevation of the boring. This clay is interpreted to effectively limit the vertical migration of groundwater and the VOC plume to the portion of the aquifer overlying the clay.

In shallow, unconfined aquifers, the horizontal direction of groundwater flow under ambient conditions typically mimics the overlying surface topography. The RI and post-RI groundwater investigations have determined that the groundwater flow direction in the vicinity of buildings GB-1 and GB-2 is to the southwest. This flow direction is based on numerous direct measurements of hydraulic head from multiple monitoring wells, and agrees well with the local topography (see the topographic map illustrated on Figure 6).

Groundwater flow directions downgradient of buildings GB-1 and GB-2 have not been precisely determined due to the far less-dense well control (fewer monitoring wells covering a much larger geographic area). However, assuming that the groundwater flow direction here similarly can be predicted by the surface

topography, the groundwater migrating from the GB-1 and GB-2 area is expected to continue to flow to the southwest through sampling points 26HP04 and 26HP17, to turn westward in the vicinity of 26HP21, and then flow in a basically westward direction toward Mingamahone Brook and its tributary. Although no surface drainage (even intermittent) is noted on the topographic map (Figure 6), a fairly well-defined topographic low is depicted as extending from the area of 26HP21 downgradient to the vicinity of 26HP65. It is reasonable to assume that the dominant groundwater flow path is along this topographic trend.

3. Discussion of Groundwater Conditions Prior to Startup of Remediation System

Analytical data obtained during the RI and post-RI activities were evaluated in order to determine the nature and extent of the impacted groundwater prior to the startup of the AS/SVE system. The post-RI groundwater concentrations of TCE and PCE obtained by FWENC were contoured on the same map to investigate:

- Whether there are 2 distinctly different and separate VOC plumes at Site 26, or whether the groundwater problem at this site may be considered one VOC plume comprised of several chemical components.

- Whether the chemical components (principally TCE and PCE) share a common source and emanate from the same location.

- Whether the existing monitoring well network is sufficient to both delineate the extent of all chemical components, support the establishment of a CEA, and monitor the progress of the ongoing remedial action.

3.1 Observations Regarding the Nature and Extent of TCE and PCE

The pre-startup concentrations of TCE and PCE are plotted on Figure 5. The following observations are drawn from this figure:

- There appear to be different sources for the PCE and the TCE groundwater components. The TCE component emanates from the former leach tank at building GB-1. The PCE component emanates near hydropunch sample 26HP17, which is located in the woods, southwest of former building GB-2.

  - There appears to be a smaller, secondary source of PCE within the eastern portion of the VOC plume in the vicinity of sampling point 26HP32. These PCE detections are relatively low (at or less than 10 ug/L), are located upgradient of the higher concentrations detected at the interpreted primary PCE source near 26HP17, and are physically isolated from those higher detections by a series of intervening samples that did not contain PCE.

- The downgradient extents of the TCE and PCE components within the VOC plume are identical, as both components were detected as far downgradient as sampling point 26HP61, which is located on the opposite (western) side of the Mingamahone Brook.

  - The detection of VOCs in the samples located on the western side of the Mingamahone Brook at first appear puzzling, since the inferred direction of groundwater flow at that location is to the east, or toward the tributary. Depending on the hydraulic head relationships, the possibility that groundwater from the east may (at least at times) flow beneath the tributary cannot be ruled out.

- The lateral extents of the TCE and PCE components within the VOC plume are generally similar, especially along the northern border of the plume. The overall lateral extent of the PCE component is greater than the TCE component, as the PCE extends farther to the south. The more southern location of the PCE source (relative to the TCE source) and the position of the PCE source within the dominant

groundwater flow axis are believed to be responsible for these small differences in lateral extent of the two dominant components of the VOC plume.

4. AS/SVE Remedy and Quarterly Groundwater Sampling

The AS/SVE system began operations on January 4, 2001. The general area affected by this remedy and the remedy's location relative to the TCE and PCE components of the groundwater plume are illustrated in Figure X. The AS/SVE system covers and remediates the sources of both the TCE and PCE components of the VOC plume. Quarterly sampling of the groundwater monitoring wells began in April 2001 in order to evaluate the system performance. To date, five rounds of quarterly monitoring have been completed, and the results of these sampling events are summarized in Table 1. These results indicate that:

- The AS/SVE system has greatly reduced the TCE concentrations in the vicinity of the TCE source. The TCE concentrations in monitoring well 26MW01 have decreased from a pre-startup (August 2000) concentration of 3,700 ug/L to the most recent (July 2002) concentration of 1.2 ug/L.

- The effect of the AS/SVE system on the PCE component of the plume is difficult to evaluate because only two monitoring well (26MW10 and 26MW18) are located within that portion of the VOC plume. Monitoring well 26MW10, which is located approximately 60 feet northwest of the interpreted source near sampling location 26HP17, displayed a pre-startup (August 2000) PCE concentration of 6.2 ug/L, and most recently (July 2002) was non-detect for PCE at a detection limit of 1 ug/L. These data suggest that the PCE is being remediated at its source, but it must be noted that monitoring well 26MW10 is not optimally located to monitor and evaluate the effects of the AS/SVE system on the PCE component of the VOC plume.

- There are no detections of VOCs at the outlying "sentry well" locations, indicating that the plume has not migrated to the periphery or outermost-boundary area established by these monitoring wells. One potential data gap exists to the north of existing monitoring well 26MW18 where the "non-detect" line has been defined. The installation of an additional sentry well to the north of 26MW18 would potentially define the northern boundary of the plume.

4.1 Discussion

The quarterly data collected to date indicate that the AS/SVE system is successfully reducing the volume of the TCE and PCE source material. Conceptually, as these sources are removed, the extent and magnitude of the dissolved-phase VOC plume emanating from these source areas should similarly decrease through processes of natural attenuation (in other words, the plume should begin to retract or "shrink"). At present, however, there are insufficient data to prove this assumption because essentially no analytical data have been acquired downgradient of the source areas since the system start-up. There is only one permanent monitoring point (26MW10) located within the mid-gradient portion of the VOC plume (and it is not optimally located), and there are no permanent monitoring points located downgradient of 26MW10, within the distal portion of the plume.

The continued lack of VOC detections in the sentry wells indicates that even under a "worst-case scenario," the plume continues to exist under steady-state conditions and it is not migrating beyond the boundaries established by the temporary well screening program (Foster Wheeler, 2001). However, a conceptualmodel consistent with this hydrogeological environment and the system verification data collected to date indicate that it is not unreasonable to expect the VOC plume to contract as the sources are removed. For this reason, TtNUS recommends the installation of additional permanent monitoring wells within the VOC plume that was delineated by the screening program. These wells would allow the collection of empirical data (VOC concentrations) that would directly indicate the degree and rate of plume attenuation as the sources are removed.

5. Conclusions and Recommendations

- A VOC plume exists beneath Site 26 and extends from the area of Building GB-1 to the western bank of the Mingamahone Creek. The principal components of the VOC plume are TCE and PCE. These components emanate from different source locations, but generally overlap at most locations within the plume. The PCE component of the plume has a greater lateral extent to the south due to the more southerly location of the PCE source. The downgradient extents of the TCE and PCE are identical.

- The TCE and PCE sources are being remediated by the AS/SVE system. Conceptually, the dissolved-phase plume emanating from these sources should attenuate or retract as the source concentrations are reduced. Very limited available data suggest that this attenuation is occurring, although this attenuation cannot be confirmed without additional data.

  - It is suggested that additional permanent monitoring wells be installed within the dissolved-phase plume (as defined by the screening well data) downgradient of the TCE and PCE source areas in order to acquire the analytical data needed to prove that the plume is attenuating. Suggested monitoring well locations are indicated in Figure 5. It is further suggested that the Mingamahone Creek and its tributary be sampled periodically to assure that the plume is not discharging to surface water and migrating beyond the site through the surface water pathway.

- A separate operable unit (OU-7) is not required for the regulatory administration of the PCE component of the VOC plume. This conclusion is supported by the observations that the PCE and TCE components of the VOC plume overlap throughout much of its area, and that the existing AS/SVE system is already remediating the source areas for both of these plume components.

- The generally overlapping nature of the TCE and PCE components of the VOC plume indicate that a single CEA is needed for the total VOC plume. The existing sentry wells are in favorable locations to both define the outer boundary of the CEA and to indicate if the plume should migrate beyond the CEA, although the existing data indicate that it is very unlikely that the plume will migrate to that extent.

  - The installation of an additional sentry monitoring well to the north of existing monitoring well 26MW18 is suggested. This sentry well would define the northern boundary of the plume in the mid-gradient position.

If you have any questions or comments, please contact me.

Respectfully,

Russell Turner

Russell E.Turner
Project Manager

RT/vh

c: Garth Glenn (Tetra Tech NUS)
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TABLE 1 – 1

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-01		26MW-01-02		26MW-01-03		26MW-01-04		26MW-01-05		26MW-01-06	
LABORATORY ID		O32547		O06		O01		O05		P2414-05		P3468-15	
DATE COLLECTED	Groundwater	08/14/00		04/02/01		10/30/01		01/29/02		04/29/02		07/24/02	
LOCATION	Quality	SITE 26, MW-01		SITE 26, MW-01		SITE 26, MW-01		SITE 26, MW-01		SITE 26, MW-01		SITE 26, MW-01	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	0.4	U	1	U	**1.4**	
Acetone	700	5	R	5	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	**1800**	D	**830**	D	**16**		2.4		1	U	1	U
trans - 1,2-Dichlorethene	100	5	U	6.8	U	0.4	U	0.4	U	1	U	1	U
Chloroform	6	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	1	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	**3700**	D	**370**	D	**10**		**6**		**1.6**		**1.2**	
Dibromochloromethane	10	5	U	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	1	U	NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-05		26MW-05-02		26MW-05-03		26MW-05-04		26MW-05-05		26MW-05-06	
LABORATORY ID		O32545		O04		O01				P2414-18		P3468-14	
DATE COLLECTED	Groundwater	08/14/00		04/02/01		10/26/01				04/29/02		07/24/02	
LOCATION	Quality	SITE 26, MW-05		SITE 26, MW-05		SITE 26, MW-05		SITE 26, MW-05		SITE 26, MW-05		SITE 26, MW-05	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	NR		1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	NR		1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	NR		1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	NR		1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	NR		1	U	**2.8**	
Acetone	700	5	R	5	U	2.4	U	NR		NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	NR		NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	NR		1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	NR		1	U	0.6	U
cis - 1,2 -Dichloroethene	10	5	U	1	U	1.9		NR		1	U	1	U
trans - 1,2-Dichlorethene	100	5	U	1	U	0.4	U	NR		1	U	1	U
Chloroform	6	5	U	1	U	0.3	U	NR		1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	NR		1	U	0.6	U
2-Butanone	300	5	U	5	U	2.8	U	NR		NR	U	NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	NR		1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	NR		1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	NR		1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	NR		1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	NR		1	U	1.5	U
Trichloroethene	1	5	U	**1.3**		**1.2**		NR		1	U	0.9	U
Dibromochloromethane	10	5	U	1	U	0.3	U	NR		1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	NR		1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	NR		1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	NR		1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	NR		1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	NR		NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	NR		NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	NR		1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	NR		1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	NR		1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	NR		1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	NR		1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	NR		1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	NR		1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-06		26MW-06-02		26MW-06-03		26MW-06-04		26MW-06-05		26MW-06-06	
LABORATORY ID		O32550		O01		O02		O02		P2414-02		P3468-08	
DATE COLLECTED	Groundwater	08/15/00		04/02/01		10/30/01		01/29/02		04/29/02		07/24/02	
LOCATION	Quality	SITE 26, MW-06		SITE 26, MW-06		SITE 26, MW-06		SITE 26, MW-06		SITE 26, MW-06		SITE 26, MW-06	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Acetone	700	5	R	5	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	5	U	0.8	J	1.6		7.2		1.2	T	1	U
trans - 1,2-Dichlorethene	100	5	U	1	U	0.4	U	0.4	U	1	U	1	U
Chloroform	6	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	5	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	5	U	**3**		**4.7**		**12**		**6.9**	U	0.9	U
Dibromochloromethane	10	5	U	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	1	U	NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-07		26MW-07-02		26MW-07-03		26MW-07-04		26MW-07-05		26MW-07-06	
LABORATORY ID		O32546		O05		O11		O04		P2414-04		P3468-05	
DATE COLLECTED	Groundwater	08/14/00		04/02/01		10/26/01		01/29/02		04/29/02		07/23/02	
LOCATION	Quality	SITE 26, MW-07		SITE 26, MW-07		SITE 26, MW-07		SITE 26, MW-07		SITE 26, MW-07		SITE 26, MW-07	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Acetone	700	5	R	5	U	2.4	U	2.4	U	NR	R	NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	5	U	1	U	0.3	U	1.4		1	U	1	U
trans - 1,2-Dichlorethene	100	5	U	1	U	0.4	U	0.4	U	1	U	1	U
Chloroform	6	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	5	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	5	U	3		3.5		7.4		9.9		7.9	
Dibromochloromethane	10	5	U	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	1	U	NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-08		26MW-08-02		26MW-08-03		26MW-08-04		26MW-08-05		26MW-08-06	
LABORATORY ID		O32549		O03		O09		O03		P2414-03		P3468-09	
DATE COLLECTED	Groundwater	08/15/00		04/02/01		10/26/01		01/29/02		04/29/02		07/24/02	
LOCATION	Quality	SITE 26, MW-08		SITE 26, MW-08		SITE 26, MW-08		SITE 26, MW-08		SITE 26, MW-08		SITE 26, MW-08	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	0.4	U	1	U	**2.5**	
Acetone	700	5	R	5	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	**28**		**540**	D	**310**	E	**80**		**15**	T	1	U
trans - 1,2-Dichlorethene	100	5	U	3		2.9		0.8		1	U	1	U
Chloroform	6	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	5	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	**42**		**440**	D	**97**		**57**		**15**		0.9	U
Dibromochloromethane	10	5	U	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	1	U	NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-09		26MW-09-02		26MW-09-03		26MW-09-04		26MW-09-05		26MW-09-06	
LABORATORY ID		O32548		O02		O08		O18		P2414-06		P3468-10	
DATE COLLECTED	Groundwater	08/15/00		04/02/01		10/26/01		1/30/02		04/29/02		07/24/02	
LOCATION	Quality	SITE 26, MW-09		SITE 26, MW-09		SITE 26, MW-09		SITE 26, MW-09		SITE 26, MW-09		SITE 26, MW-09	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Acetone	700	5	R	3.2	J	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	5	U	1	U	0.3	U	0.3	U	1	U	1	U
trans - 1,2-Dichlorethene	100	5	U	1	U	0.4	U	0.4	U	1	U	1	U
Chloroform	6	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	5	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	5	U	**1.1**		0.4	U	0.4	U	1	U	0.9	U
Dibromochloromethane	10	5	U	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	1	U	NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-10		26MW-10-02		26MW-10-03		26MW-10-04		26MW-10-05		26MW-10-06	
LABORATORY ID		O32553		O08		O07		O14		P2414-07		P3468-12	
DATE COLLECTED	Groundwater	08/15/00		04/02/01		10/26/01		1/30/02		04/29/02		07/24/02	
LOCATION	Quality	SITE 26, MW-10		SITE 26, MW-10		SITE 26, MW-10		SITE 26, MW-10		SITE 26, MW-10		SITE 26, MW-10	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Acetone	700	5	R	5	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	**10**		1	U	3.8		4.5		1	U	1	U
trans - 1,2-Dichlorethene	100	5	U	1	U	0.4	U	0.4	U	1	U	1	U
Chloroform	6	5	U	2.5		0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	5	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	**10**		**1.7**		**2.9**		**6.3**		**4.6**	U	**1.4**	
Dibromochloromethane	10	5	U	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	1	U	NR		NR	
Tetrachloroethene	1	**6.2**	J	1	U	**1.1**		0.8		1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-11		26MW-11-02		26MW-11-03		26MW-11-04		26MW-11-05		26MW-11-06	
LABORATORY ID		O32601		O09		O12		O15		P2414-09		P3468-11	
DATE COLLECTED	Groundwater	08/15/00		04/02/01		10/26/01		1/30/02		04/29/02		07/24/02	
LOCATION	Quality	SITE 26, MW-11		SITE 26, MW-11		SITE 26, MW-11		SITE 26, MW-11		SITE 26, MW-11		SITE 26, MW-11	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	0.4	U	1	U	**2.9**	
Acetone	700	5	R	5	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	5	U	1	U	0.3	U	0.3	U	1	U	1	U
trans - 1,2-Dichlorethene	100	5	U	1	U	0.4	U	0.4	U	1	U	1	U
Chloroform	6	5	U	**12**		2		0.6		1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	R	5	U	2.8	U	2.8	U	1	U	NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	5	U	**1.4**		0.4	U	0.4	U	1	U	0.9	U
Dibromochloromethane	10	5	U	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	1	U	NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-12		26MW-12-02		26MW-12-03		26MW-12-04		26MWD-04		26MW12-05		26MW12D-05		26MW12-06	
LABORATORY ID		O32600		O07		O05		O10		O11		P2414-10		P2414-14		P3468-16	
DATE COLLECTED	Groundwater	08/15/00		04/02/01		10/30/01		01/29/02		01/29/02		04/29/02		04/29/02		07/24/02	
LOCATION	Quality	SITE 26, MW-12		SITE 26, MW-12		SITE 26, MW-12		SITE 26, MW-12		SITE 26, MW-12		SITE 26, MW-12		SITE 26, MW-12		SITE 26, MW-12	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 4th Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	1.1	U	1.1	U	1	U	1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	0.6	U	0.6	U	1	U	1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	0.7	U	0.7	U	1	U	1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	0.4	U	0.4	U	1	U	1	U	1.2	
Acetone	700	5	R	5	U	2.4	U	2.4	U	2.4	U	NR		NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	0.3	U	0.3	U	NR		NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	0.4	U	0.4	U	1	U	1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	0.2	U	0.2	U	1	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	1	U
trans - 1,2-Dichlorethene	100	5	U	1	U	0.4	U	0.4	U	0.4	U	1	U	1	U	1	U
Chloroform	6	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	0.6	U
2-Butanone	300	5	R	5	U	2.8	U	2.8	U	2.8	U	NR		NR		NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	0.4	U	0.4	U	1	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	1.5	U
Trichloroethene	1	5	U	1	U	0.4	U	0.4	U	0.4	U	1	U	1	U	0.9	
Dibromochloromethane	10	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	0.2	U	0.2	U	1	U	1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	1.4	U	1.4	U	NR		NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	1	U	1	U	NR		NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	0.2	U	0.2	U	1	U	1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	0.4	U	0.4	U	1	U	1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	0.2	U	0.2	U	1	U	1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	0.9	U	0.9	U	1	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW12-06D	
LABORATORY ID		P3468-17	
DATE COLLECTED	Groundwater	07/24/02	
LOCATION	Quality	SITE 26, MW-12	
MATRIX	Criteria	AQUEOUS	
UNITS	ug/L	ug/L	
COMMENTS		After 5th Qtr of AS/SVE	
Chloromethane	30	1.4	U
Bromomethane	10	1.7	U
Vinyl Chloride	5	1.2	U
Chloroethane	NA	1.8	U
Methylene Chloride	2	1.2	U
Acetone	700	NR	
Carbon Disulfide	NA	NR	
1,1-Dichlorethene	1	1	U
1,1-Dichlorethane	70	0.6	U
cis - 1,2 -Dichloroethene	10	1	U
trans - 1,2-Dichlorethene	100	1	U
Chloroform	6	0.8	U
1,2-Dichlorethane	2	0.6	U
2-Butanone	300	NR	
1,1,1-Trichlorethane	30	0.8	U
Carbon Tetrachloride	2	0.5	U
Bromodichloromethane	1	0.9	U
1,2-Dichloropropane	1	0.8	U
cis-1,3-Dichloropropene	NA	1.5	U
Trichloroethene	1	0.9	
Dibromochloromethane	10	1.4	U
1,1,2-Trichloroethane	3	1.5	U
Benzene	1	0.6	U
trans-1,3-Dichloropropene	NA	NR	
Bromoform	4	1.5	U
4-Methyl-2-pentanone	400	NR	
2-Hexanone	NA	NR	
Tetrachloroethene	1	1	U
Toluene	1000	1	U
1,1,2,2-Tetrachloroethane	2	0.8	U
Chlorobenzene	4	1	U
Ethylbenzene	700	1.2	U
Styrene	100	NR	
Xylenes (total)	40	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-13		26MW-13-02		26MW-13-03		26MW-13-04		26MW-13-05		26MW-13-06	
LABORATORY ID		O32599		O07		O04		O01		P2414-01		P3468-07	
DATE COLLECTED	Groundwater	08/15/00		04/03/01		10/30/01		01/29/02		04/29/02		07/24/02	
LOCATION	Quality	SITE 26, MW-13		SITE 26, MW-13		SITE 26, MW-13		SITE 26, MW-13		SITE 26, MW-13		SITE 26, MW-13	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	0.4	U	1	U	**2.7**	
Acetone	700	5	R	5	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	0.3	U	NR	U	NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	5	U	1	U	4		3.1		1.2	T	1	U
trans - 1,2-Dichlorethene	100	5	U	1	U	0.4	U	0.4	U	1	U	1	U
Chloroform	6	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	R	5	U	2.8	U	2.8	U	1	U	NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	5	U	2.3		8.7		8.4		7.7	U	0.9	U
Dibromochloromethane	10	5	U	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	1	U	NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
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TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26AS-1		26AS-1-02		26AS-1-03		26AS-1-04		26AS-1-05		26AS-1-06	
LABORATORY ID		O32602		O12		O03		O07		P2414-11		P3468-18	
DATE COLLECTED	Groundwater	08/16/00		03/29/01		10/30/01		01/29/02		04/29/02		04/29/02	
LOCATION	Quality	SITE 26, AS-1		SITE 26, AS-1		SITE 26, AS-1		SITE 26, AS-1		SITE 26, AS-1		SITE 26, AS-1	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	U	1	U	1.1	U	NR		1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	NR		1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	NR		1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	NR		1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	NR		1	U	1.2	U
Acetone	700	5	R	5	U	2.4	U	NR		NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	NR		NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	NR		1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	NR		1	U	0.6	U
cis - 1,2 -Dichloroethene	10	**6.3**		**38**		**45**		NR		**53**	TD	1	U
trans - 1,2-Dichlorethene	100	5	U	1	U	0.4	U	NR		1	U	1	U
Chloroform	6	5	U	1	U	0.3	U	NR		1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	NR		1	U	0.6	U
2-Butanone	300	5	R	5	U	2.8	U	NR		NR		NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	NR		1	U	0.8	U
Carbon Tetrachloride	2	5	U	1	U	0.3	U	NR		1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	NR		1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	NR		1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	NR		1	U	1.5	U
Trichloroethene	1	**7.9**		**120**		**43**		NR		**65**	D	0.9	U
Dibromochloromethane	10	5	U	1	U	0.3	U	NR		1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	NR		1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	NR		1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	NR		1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	NR		1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	NR		NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	NR		NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	NR		1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	NR		1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	NR		1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	NR		1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	NR		1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	NR		1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	NR		1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26AS-35		26AS-35-02		26AS-35-03		26AS-35-04		26AS-35-05		26AS-35-06	
LABORATORY ID		O32603		O12		O06		O09		P2414-08		P3468-13	
DATE COLLECTED	Groundwater	08/16/00		04/03/01		10/30/01		1/29/02		04/29/02		07/24/02	
LOCATION	Quality	SITE 26, AS-35		SITE 26, AS-35		SITE 26, AS-35		SITE 26, AS-35		SITE 26, AS-35		SITE 26, AS-35	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		Baseline GW		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	5	UJ	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	5	UJ	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	5	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	5	U	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	5	U	1	U	0.4	U	0.4	U	1	U	1.7	
Acetone	700	5	R	5	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	5	U	1	U	0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	5	U	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	5	U	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	5	U	5.5		1.2		1.8		2.9	T	1	U
trans - 1,2-Dichlorethene	100	5	U	1	U	0.4	U	0.4	U	1	U	1	U
Chloroform	6	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	5	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	5	UJ	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	5	U	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	5	U	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	5.6		6.1		0.4	U	0.8		3.1		0.9	U
Dibromochloromethane	10	5	U	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	5	U	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	5	U	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	5	U	5	U	1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	5	UJ	5	U	1	U	1	U	NR		NR	
Tetrachloroethene	1	5	UJ	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	5	U	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	5	U	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	5	U	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	5	U	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	5	U	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	5	U	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-14-02		26MW-14-03		26MW-14-04		26MWDP-04		26MW14-05		26MW14-06	
LABORATORY ID		O01		O03		O16		O17		P2414-12		P3468-03	
DATE COLLECTED	Groundwater	5/16/01		10/26/01		1/30/02		1/30/02		04/30/02		07/23/02	
LOCATION	Quality	SITE 26, MW-14		SITE 26, MW-14		SITE 26, MW-14		SITE 26, MW-14		SITE 26, MW-14		SITE 26, MW-14	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	1	U	1.1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	1	U	0.6	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	1	U	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	1	U	0.7	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	1	U	0.4	U	0.4	U	0.4	U	1	U	1.2	
Acetone	700	5	U	2.4	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	NR		0.3	U	0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	1	U	0.4	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	1	U	0.2	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U
trans - 1,2-Dichlorethene	100	NR		0.4	U	0.4	U	0.4	U	1	U	1	U
Chloroform	6	1	U	0.3	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	1	U	0.3	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	2.8	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	1	U	0.3	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	1	U	0.3	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	1	U	0.3	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	1	U	0.4	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	NR		0.3	U	0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	1	U	0.4	U	0.4	U	0.4	U	1	U	0.9	U
Dibromochloromethane	10	1	U	0.3	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	1	U	0.3	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	1	U	0.3	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA		U	0.2	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	1	U	0.3	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	NR		1.4	U	1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	NR		1	U	1	U	1	U	NR		NR	
Tetrachloroethene	1	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	1	U	0.3	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	1	U	0.3	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	1	U	0.2	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	1	U	0.4	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	1	U	0.2	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	1	U	0.9	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-15-02		26MW-15-03		26MW-15-04		26MW-15-05		26MW-15-06	
LABORATORY ID		O02		O01		O06		P2414-16		P3468-02	
DATE COLLECTED	Groundwater	5/16/01		10/26/01		1/29/02		04/30/02		07/23/02	
LOCATION	Quality	SITE 26, MW-15		SITE 26, MW-15		SITE 26, MW-15		SITE 26, MW-15		SITE 26, MW-15	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	1	U	0.4	U	0.4	U	1	U	1.2	U
Acetone	700	5	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	NR		0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	1	U	0.2	U	0.2	U	1	U	1	U
cis - 1,2 -Dichloroethene	10	1	U	0.3	U	0.3	U	1	U	1	U
trans - 1,2-Dichlorethene	100	NR		0.4	U	0.4	U	1	U	1	U
Chloroform	6	1	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	1	U	0.3	U	0.3	U	1	U	1	U
Carbon Tetrachloride	2	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	NR		0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	1	U	0.4	U	0.4	U	1	U	0.9	U
Dibromochloromethane	10	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA		U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	NR		1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	NR		1	U	1	U	NR		NR	
Tetrachloroethene	1	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-16-02		26MW-16-03		26MW-16-04		26MW-16-05		26MW-16-06	
LABORATORY ID		O03		O02		O08		P2414-17		P3468-01	
DATE COLLECTED	Groundwater	5/16/01		10/26/01		1/29/02		04/30/02		07/23/02	
LOCATION	Quality	SITE 26, MW-16		SITE 26, MW-16		SITE 26, MW-16		SITE 26, MW-16		SITE 26, MW-16	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	1	U	0.4	U	1.2	B	1	U	1.2	U
Acetone	700	5	U	16		2.4	U	NR		NR	
Carbon Disulfide	NA	NR		0.3	U	1.5		NR		NR	
1,1-Dichlorethene	1	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	1	U	0.3	U	0.3	U	1	U	1	U
trans - 1,2-Dichlorethene	100	NR		0.4	U	0.4	U	1	U	1	U
Chloroform	6	1	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	NR		0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	1	U	0.4	U	0.4	U	1	U	0.9	U
Dibromochloromethane	10	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA		U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	NR		1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	NR		1	U	1	U	NR		NR	
Tetrachloroethene	1	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

SAMPLE ID	NJDEP	26MW-17-02		26MW-17-03		26MW-17-04		26MW-17-05		26MW-17-06	
LABORATORY ID		O04		O05		O13		P2414-15		P3468-06	
DATE COLLECTED	Groundwater	5/16/01		10/26/01		1/30/02		04/30/02		07/23/02	
LOCATION	Quality	SITE 26, MW-17		SITE 26, MW-17		SITE 26, MW-17		SITE 26, MW-17		SITE 26, MW-17	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	1	U	0.4	U	0.4	U	1	U	1.2	U
Acetone	700	5	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	NR		0.3	U	0.3	U	NR		NR	
1,1-Dichlorethene	1	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	1	U	0.3	U	0.3	U	1	U	1	U
trans - 1,2-Dichlorethene	100	NR		0.4	U	0.4	U	1	U	1	U
Chloroform	6	1	U	0.3	U	0.3	U	1	U	0.8	U
1,2-Dichlorethane	2	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	NR		0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	1	U	0.4	U	0.4	U	1	U	0.9	U
Dibromochloromethane	10	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA	1	U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	NR		1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	NR		1	U	1	U	NR		NR	
Tetrachloroethene	1	1	U	0.3	U	0.3	U	1	U	1	U
Toluene	1000	1	U	0.3	U	0.3	U	1	U	1	U
1,1,2,2-Tetrachloroethane	2	1	U	0.3	U	0.3	U	1	U	0.8	U
Chlorobenzene	4	1	U	0.2	U	0.2	U	1	U	1	U
Ethylbenzene	700	1	U	0.4	U	0.4	U	1	U	1.2	U
Styrene	100	1	U	0.2	U	0.2	U	1	U	NR	
Xylenes (total)	40	1	U	0.9	U	0.9	U	1	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

TABLE 1
NWS-Earle, Site 26
5th Quarter - AS/SVE Operation Report
Groundwater Analytical Data
Volatile Organic Compounds

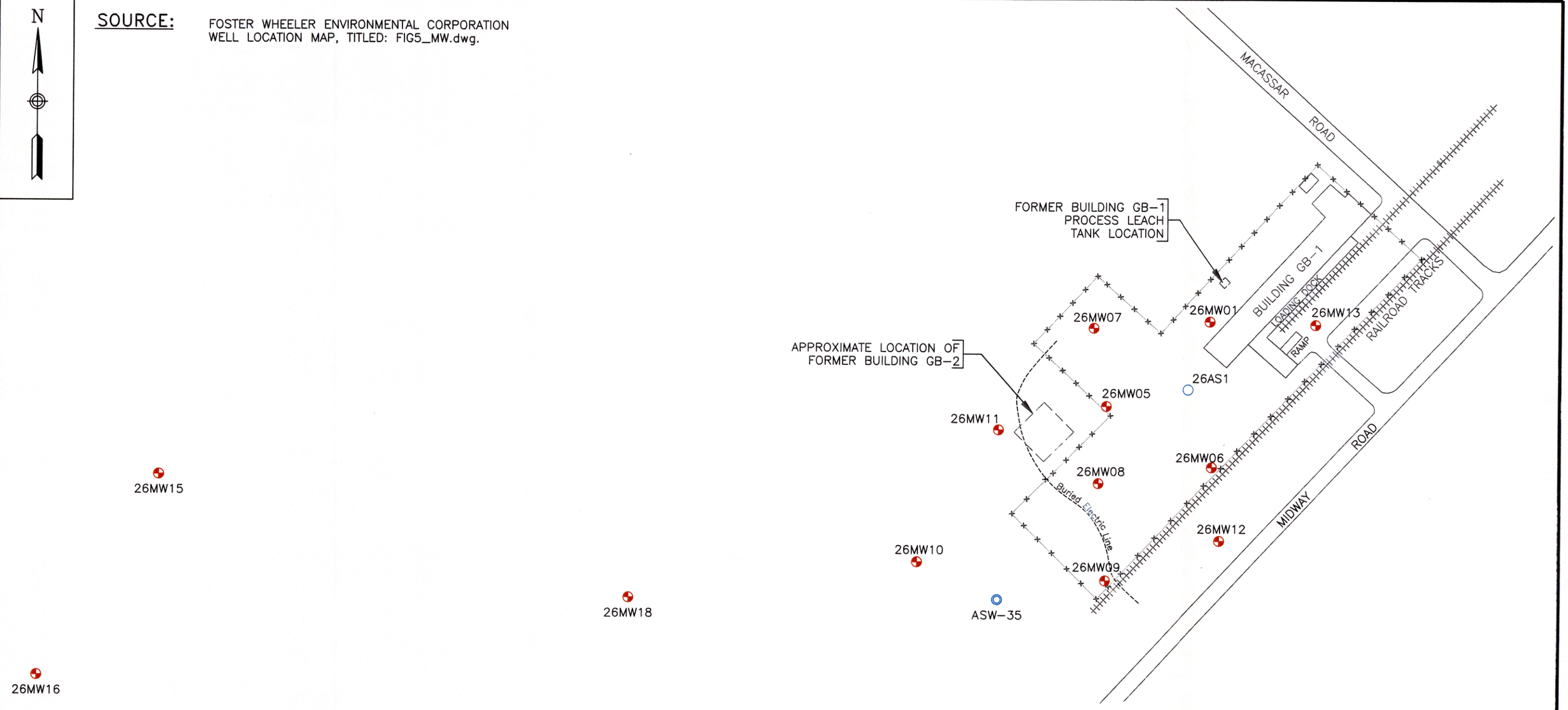
SAMPLE ID	NJDEP	26MW-18-02		26MW-18-03		26MW-18-04		26MW-18-05		26MW-18-06	
LABORATORY ID		O05		O04		O12		p2414-13		p2414-13	
DATE COLLECTED	Groundwater	5/16/01		10/26/01		1/30/02		04/30/02		07/23/02	
LOCATION	Quality	SITE 26, MW-18		SITE 26, MW-18		SITE 26, MW-18		SITE 26, MW-18		SITE 26, MW-18	
MATRIX	Criteria	AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS		AQUEOUS	
UNITS	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L	
COMMENTS		After 1st Qtr of AS/SVE		After 2nd Qtr of AS/SVE		After 3rd Qtr of AS/SVE		After 4TH Qtr of AS/SVE		After 5th Qtr of AS/SVE	
Chloromethane	30	1	U	1.1	U	1.1	U	1	U	1.4	U
Bromomethane	10	1	U	0.6	U	0.6	U	1	U	1.7	U
Vinyl Chloride	5	1	U	1	U	1	U	1	U	1.2	U
Chloroethane	NA	1	U	0.7	U	0.7	U	1	U	1.8	U
Methylene Chloride	2	1	U	0.4	U	0.4	U	1	U	1.2	U
Acetone	700	5	U	2.4	U	2.4	U	NR		NR	
Carbon Disulfide	NA	NR		0.3	U	0.3	U	NR	U	NR	
1,1-Dichlorethene	1	1	U	0.4	U	0.4	U	1	U	1	U
1,1-Dichlorethane	70	1	U	0.2	U	0.2	U	1	U	0.6	U
cis - 1,2 -Dichloroethene	10	1	U	0.3	U	0.3	U	1	U	1	U
trans - 1,2-Dichlorethene	100	NR		0.4	U	0.4	U	1	U	1	U
Chloroform	6	1	U	**11**		**10**		**12**		**6.8**	
1,2-Dichlorethane	2	1	U	0.3	U	0.3	U	1	U	0.6	U
2-Butanone	300	5	U	2.8	U	2.8	U	NR		NR	
1,1,1-Trichlorethane	30	1	U	0.3	U	0.3	U	1	U	0.8	U
Carbon Tetrachloride	2	1	U	0.3	U	0.3	U	1	U	0.5	U
Bromodichloromethane	1	1	U	0.3	U	0.3	U	1	U	0.9	U
1,2-Dichloropropane	1	1	U	0.4	U	0.4	U	1	U	0.8	U
cis-1,3-Dichloropropene	NA	NR		0.3	U	0.3	U	1	U	1.5	U
Trichloroethene	1	1	U	0.4	U	0.4	U	1	U	0.9	U
Dibromochloromethane	10	1	U	0.3	U	0.3	U	1	U	1.4	U
1,1,2-Trichloroethane	3	1	U	0.3	U	0.3	U	1	U	1.5	U
Benzene	1	1	U	0.3	U	0.3	U	1	U	0.6	U
trans-1,3-Dichloropropene	NA		U	0.2	U	0.2	U	1	U	NR	
Bromoform	4	1	U	0.3	U	0.3	U	1	U	1.5	U
4-Methyl-2-pentanone	400	NR		1.4	U	1.4	U	NR		NR	
2-Hexanone	NA	NR		1	U	1	U	NR		NR	
Tetrachloroethene	1	1	U	**4.6**		**2.9**		**3.8**		**7**	
Toluene	1000	1	U	0.3	U	0.3	U	5	U	1	U
1,1,2,2-Tetrachloroethane	2	1	U	0.3	U	0.3	U	5	U	0.8	U
Chlorobenzene	4	1	U	0.2	U	0.2	U	5	U	1	U
Ethylbenzene	700	1	U	0.4	U	0.4	U	5	U	1.2	U
Styrene	100	1	U	0.2	U	0.2	U	5	U	NR	
Xylenes (total)	40	1	U	0.9	U	0.9	U	5	U	3.4	U

Notes:
U - Not detected above quantitation limit
NA - No applicable standard
NR - No result
D - Diluted
J - Estimated
UJ - Not detected, quantitation limit is approximate
R - Result rejected (see data validation report)
T - Tentitive Identified Compound
Shaded/Bolded - Exceeds NJDEP GQS
ug/L - microgram per liter

ACAD:2128/SITE26/2128cp50.dwg 3/4/03 LDL

N

SOURCE: FOSTER WHEELER ENVIRONMENTAL CORPORATION WELL LOCATION MAP, TITLED: FIG5_MW.dwg.



0 100 200

SCALE IN FEET

LEGEND

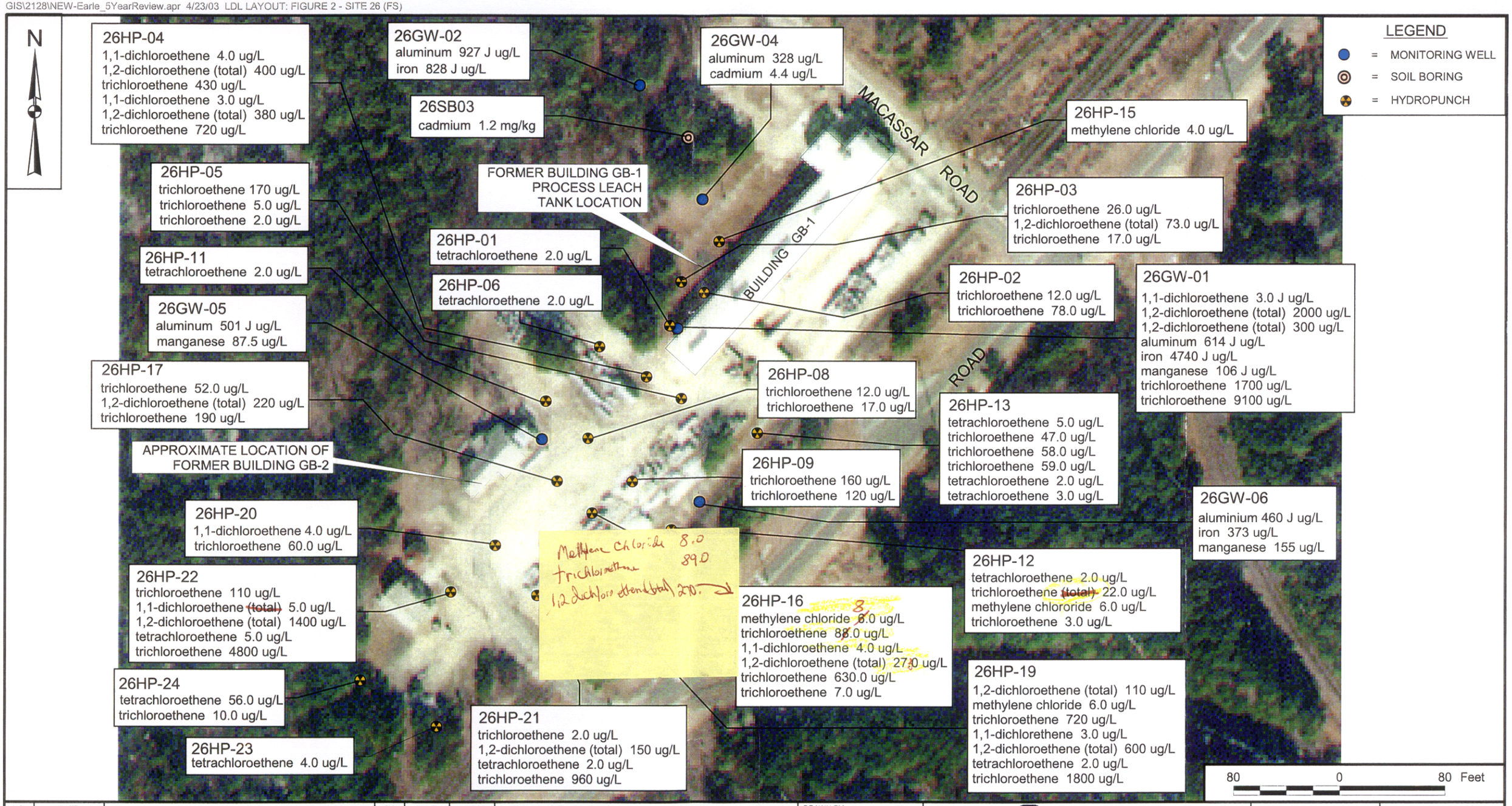
- = MONITORING WELL
- = ACTIVE AIR SPARGING WELL
- = AIR SPARGING WELL (INACTIVE)

TETRA TECH NUS, INC.

WELL LOCATION MAP
OPERABLE UNIT 3, SITE 26
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

FILE 2128cp50.dwg	SCALE AS NOTED
FIGURE NUMBER FIGURE 1	REV DATE 4/4/03

GIS\2128\NEW-Earle_5YearReview.apr 4/23/03 LDL LAYOUT: FIGURE 2 - SITE 26 (FS)



NO	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

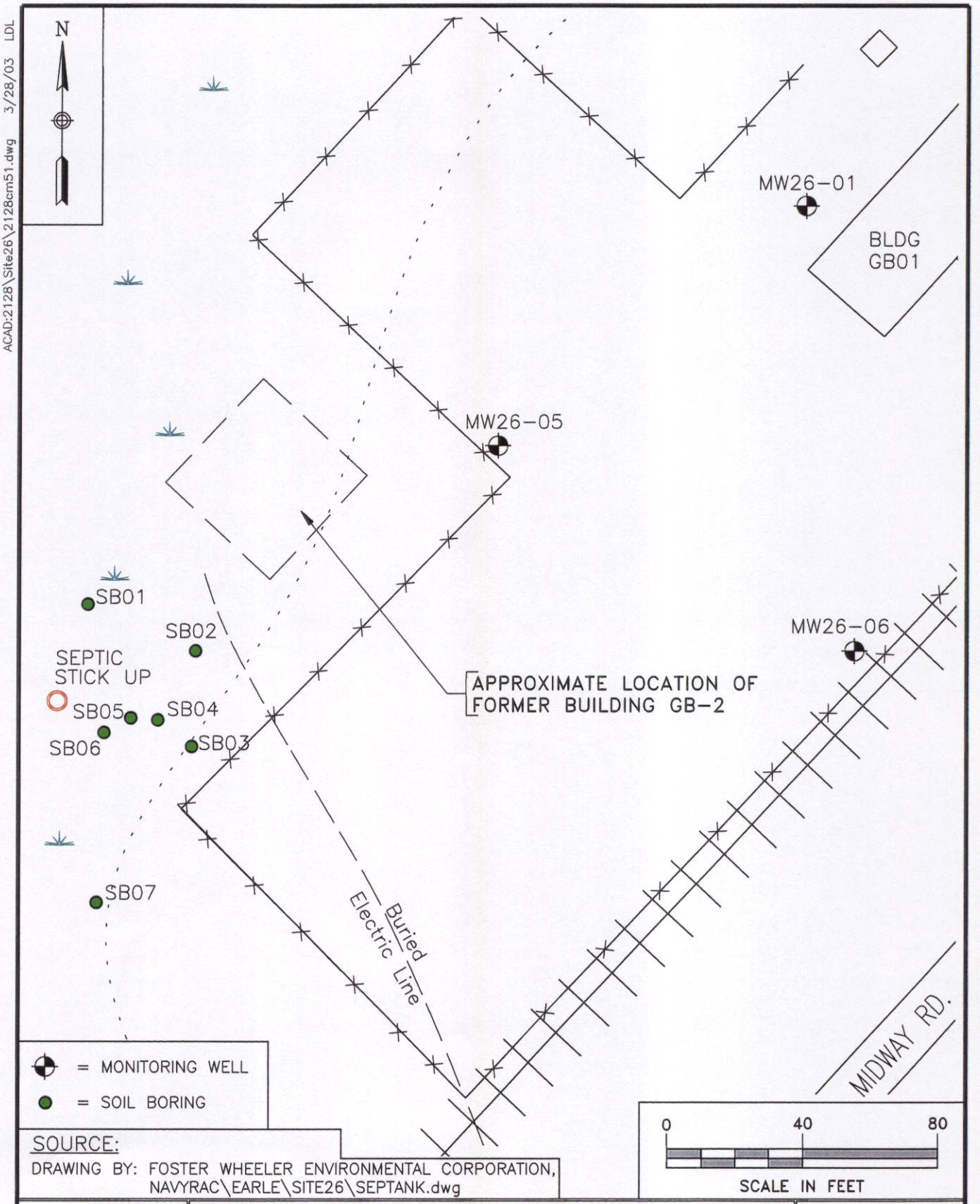
DRAWN BY LDL DATE 4/25/03
CHECKED BY RET DATE
COST/SCHEDULE-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

CONCENTRATIONS ABOVE SCREENING LEVELS
SITE 26 - EXPLOSIVE WASHOUT AREA
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

CONTRACT NUMBER 2128
OWNER NUMBER 1121
PROJECT FILE: NWS-Earle_5YearReview.apr
LAYOUT: FIGURE 2 - SITE 26 (FS)
APPROVED BY RET DATE
DRAWING NO. FIGURE 2
REV

ACAD:2128\Site26\2128cm51.dwg 3/28/03 LDL



SOURCE:
DRAWING BY: FOSTER WHEELER ENVIRONMENTAL CORPORATION, NAVYRAC\EARLE\SITE26\SEPTANK.dwg

TETRA TECH NUS, INC.

SITE 26
SEPTIC TANK ORIENTATION AND SOIL BORINGS
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

SCALE	AS NOTED
FILE	2128cm51.dwg LDL PHL
REV	DATE 3/28/03
FIGURE NUMBER	FIGURE 3

GIS\2128\NWS Earle-SITE26.apr 4/22/03 LDL PHL / LAYOUT: FIGURE 4

SOURCE:
BASEMAP PREPARED BY: FOSTER WHEELER ENVIRONMENTAL CORPORATION

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

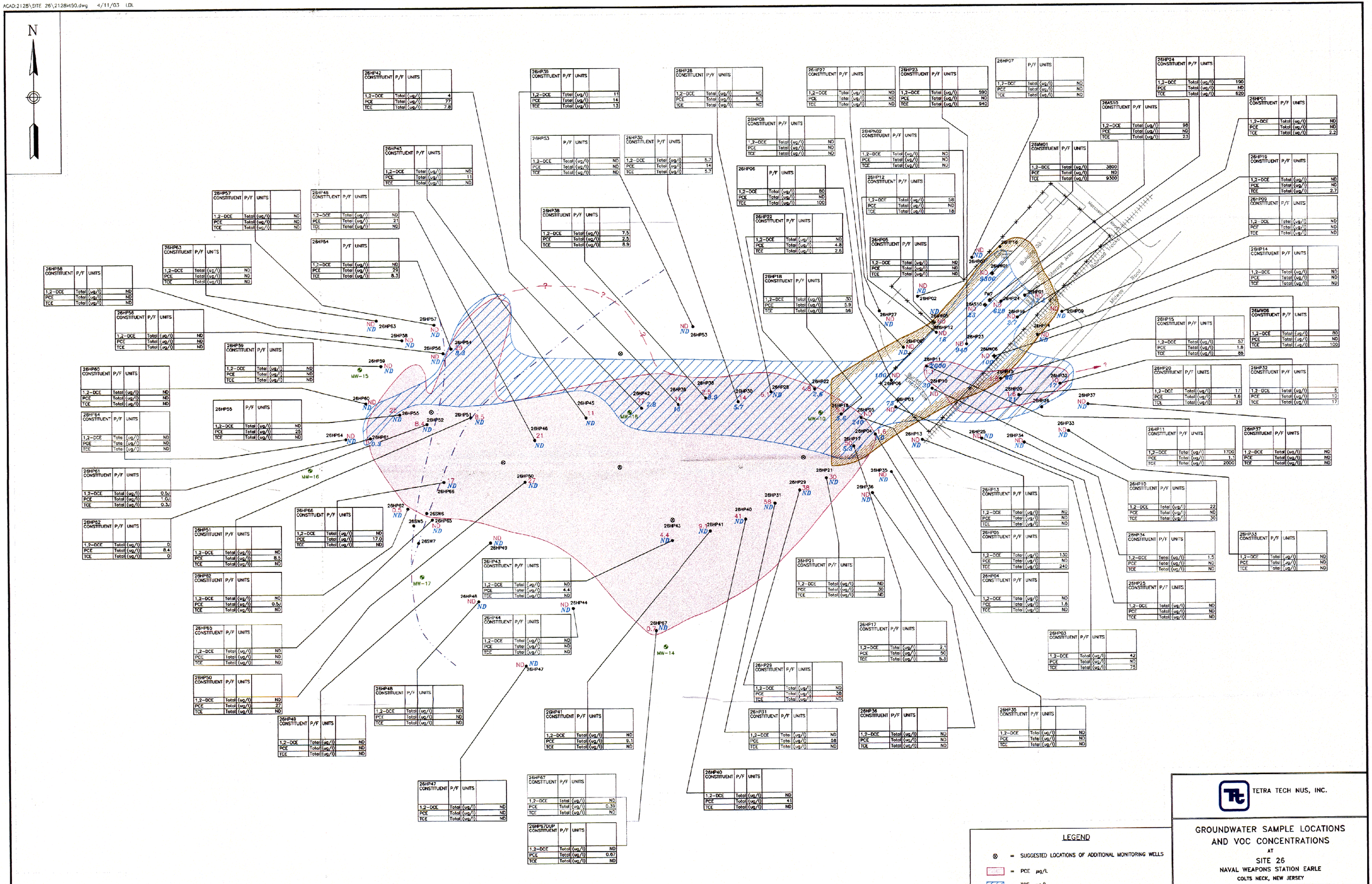
DRAWN BY: LDL DATE: 4/22/03
CHECKED BY: DATE:
COST/SCHEDULE-AREA
SCALE: AS NOTED

Tetra Tech NUS, Inc.

SURFACE WATER/SEDIMENT SAMPLE LOCATIONS
SITE 26
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

CONTRACT NUMBER: 2128
OWNER NUMBER: 1121
PROJECT FILE: NWS Earle-SITE 26.apr
LAYOUT: FIGURE 4
APPROVED BY: RET
DATE: 4/ /03
DRAWING NO: FIGURE 4
REV

ACAD:2128\SITE 26\2128kt50.dwg 4/11/03 LDL



LEGEND

- ⊗ = SUGGESTED LOCATIONS OF ADDITIONAL MONITORING WELLS
- = PCE µg/L
- = TCE µg/L
- = APPROXIMATE POSITION OF EXISTING MW's
- = APPROXIMATE AREA EXTENT OF AS/SVE SYSTEM

TETRA TECH NUS, INC.

GROUNDWATER SAMPLE LOCATIONS AND VOC CONCENTRATIONS

AT

SITE 26

NAVAL WEAPONS STATION EARLE

COLTS NECK, NEW JERSEY

FILE: 2128kt50.dwg LDL PHL	SCALE AS NOTED
FIGURE NUMBER FIGURE 5	REV / DATE 4/11/03

GIS\2128\NWS Earle SITE 26.apr 4/23/03 LDL LAYOUT: FIGURE 6

NO.	DATE	REVISIONS	BY	CHKD	APP'D	REFERENCES

DRAWN BY LDL	DATE 4/25/03	Tetra Tech NUS, Inc.	CONTRACT NUMBER 2128 / OWNER NUMBER 1121
CHECKED BY	DATE	TOPOGRAPHIC MAP SITE 26 NAVAL WEAPONS STATION EARLE COLTS NECK, NEW JERSEY	PROJECT FILE: NWS Earle-SITE 26.apr LAYOUT: FIGURE 6
COST/SCHEDULE-AREA			APPROVED BY R.E.T. / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 6 / REV