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20 July 2017
File No. 70613-833

Matthew Turner
New Jersey Department of Environmental Protection
Bureau of Inspection and Review
401 E. State Street
P.O. Box 420
Mail Code 401-05D

Subject: Response to the June 26, 2017 Soil RAR Addendum NJDEP Comments
Ewing Township Industrial Land
1445 Parkway Avenue
Ewing, New Jersey
NJDEP SRP PI 011336

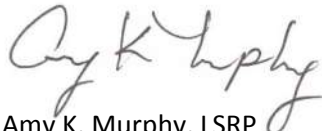
Dear Mr. Turner:

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, Haley & Aldrich, Inc. (Haley & Aldrich) is providing this response to email correspondence received from the New Jersey Department of Environmental Protection (NJDEP) on June 26, 2017 and a clarification email on June 30, 2017 detailing specific comments on Spatially Weighted Averaging (contained in Attachment A). The initial email message stated the NJDEP had completed a review of the Soil Remedial Action Report dated May 10, 2017, submitted for the Ewing Township Industrial Land (Former Delphi Interiors and Lighting Systems Division Facility; Site). The NJDEP provided comments and observations specifically regarding the findings in relation to SPLP and the SESOIL. Attachment B provides RACER's detailed response to the NJDEP comments.

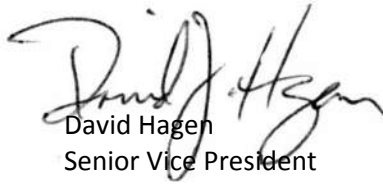
Once the NJDEP Team has an opportunity to review RACER's response, we propose to have a meeting with the NJDEP to review the remaining issues, so that the remaining issues can be addressed to facilitate the property transaction and re-development of the Site.

We trust this correspondence provides additional information needed to further support NJDEP's understanding of investigation of the Site consistent with the October 2010 Settlement Agreement between Motors Liquidation Company (MLC) and the State of New Jersey. Should you have any additional questions or comments, please feel free to contact us at (973) 263-3900.

Sincerely yours,
HALEY & ALDRICH, INC.



Amy K. Murphy, LSRP
Senior Project Manager



David Hagen
Senior Vice President

Enclosures

C: RACER Trust; Attn: Robert Hare, Cleanup Manager
NJDEP; Attn: Gerald Hahn, Bureau of Inspection and Review (BIR)

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**ATTACHMENT A
NJDEP COMMENTS**

Murphy, Amy

From: Hamill, Nancy <Nancy.Hamill@dep.nj.gov>
Sent: Tuesday, June 20, 2017 3:56 PM
To: Murphy, Amy
Cc: Schick, Kevin; Turner, Matthew; Hahn, Gerald; rhare@RACERTrust.org
Subject: Former Delphi Interior and Lighting Systems Division, PI# 011336: Ecological Component Review
Attachments: Former Delphi Interior and Lighting Systems Division RAR Addendum May 2017.docx

Hello Amy:

Attached please find the Ecological Component Review for the Former Delphi Interior and Lighting Systems Division site (aka Ewing Township Industrial Land), *Soil Remedial Action Report Addendum*, May 2017,

PI# 011336. In case you are not aware, in order to streamline the Component Review process, comments are now being sent to LSRPs directly from technical support staff and will not be issued by the Bureau of Inspection and Review (BIR). Several issues are identified in the attached memorandum that should be addressed. Please review the issues and provide a response to me by July 5, 2017. The NJDEP requests that you confirm receipt of the email.

Please contact me if you have any questions.

Thank you.

Nancy E. Hamill

Research Scientist
Bureau of Environmental Evaluation and Risk Assessment
Mailcode: 401-04M
P.O. Box 420
Trenton, NJ 08625
Phone: 609-633-1353
Fax: 609-292-0848

MEMORANDUM

TO: Amy K. Murphy, LSRP, Haley & Aldrich, Inc.

FROM: Nancy Hamill, Research Scientist, NJDEP/SRP/ETRA

SUBJECT: Former Delphi Interior and Lighting Systems Division (aka Ewing Township Industrial Land), 1445 Parkway Avenue, Ewing, NJ: Ecological Component Review of *Soil Remedial Action Report Addendum*, May 2017

PI# 011336

Referral Date: June 7, 2017

Completion Date: June 20, 2017

PAC: 31870020/V6RC

This RAR addendum was prepared in response to ETRA's November 17, 2016 Ecological Component Review by the LSRP, Amy Murphy (License # 586486), Haley and Aldrich, Inc., Parsippany, NJ, on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust. ETRA has reviewed summaries of the remedial actions conducted in 2011 in AOC-11, the former Gold Run Pond (section 1.4.2), AOC-12, the Southern Drainage Swale (section 1.4.3), soil/sediment data in May 2017 Receptor Evaluation Tables E-1 and E-2, and section 2.4.4 Receptor Evaluation Summary/Ecological. The review was conducted in accordance with N.J.A.C. 7:26E-1.16, 3.6, and 4.8, and the *Ecological Evaluation Technical Guidance* (EETG), February 2015, to determine whether the remedial actions for these AOCs are protective of ecological receptors, because remedial actions were based on the human health-based Non-Residential Soil Remediation Standards, which are not applicable to environmentally sensitive natural resources (ESNRs). The following comments are offered for consideration by the LSRP.

Comments

1. (p.13) Receptor Evaluation Summary, 2.4.4.2 *Soils* - based on the data provided in the Table E-1 for soil remaining outside of the remediated areas of AOCs 11 and 12, ETRA concurs with conclusions that post remedial surficial wetland soil contaminant levels are unlikely to result in adverse effects to ecological receptors using this wetland. Moreover, while several samples indicated elevated Zinc levels, this reviewer determined that the average 0-6" Zinc concentration is approximately 220 mg/kg, slightly exceeding the range of ecological screening criteria (ESC). Note that data from location ISO37 indicates highly elevated surficial Zinc concentrations of 2650 mg/kg, but was not included in the average calculation because Figure 11 indicates it was within the remediation footprint – the LSRP should verify that this is a correct assumption. However, because subsurface/soil biotic zone data for the Southern Swale unremediated area are not provided, the LSPR should address potential risk to wildlife from direct exposure to subsurface soils in unremediated zones, such as direct exposure to burrowing mammals and food chain risk to wildlife from soil benthos prey consumption. For future projects, please note that N.J.A.C.7:26E-4.8 requires risk characterization as part of the remedial investigation.

2. (p.14) Receptor Evaluation Summary, 2.4.4.3 *Sediment* – Regarding remaining sediment in Gold Run (AOC11), based on text and data from Table E-2 for samples WSE4 and WSE5, unremediated sediment contaminant levels are not likely to result in adverse ecological effects. Note that the three samples cited on p. 14, GR-05, WSE4, and WSE 5, could not be located on Figure 10, AOC 11 Gold Run Pond; please provide a figure with these sample locations and concentrations.

Regarding the Southern Drainage Swale (AOC12), ETRA concurs contaminants remaining under 2 feet of clean backfill are not within the sediment biotic zone. However, the data provided in Table E-2 is confusing in that ASE8, ISE6, ISE7, and ISE 8 appear to be in remediated/excavated areas (Figure 11), and are not representative of “remaining” concentrations. Therefore, this reviewer considered certain locations from Table E-1 as sediment, and examined data from unexcavated swale locations ASO4, ASO5, ASO6, and B6-12; remaining contaminant levels are not considered of ecological concern. It is requested that the LSRP verify the approach I used has identified representative remaining sediment concentrations in the swale.

Please respond to the above comments by July 5, 2017 and contact me if you have any questions at 609-633-1353.

Thank you.

cc

Kevin Schick
Allan Motter
Greg Neumann
Mathew Turner
Gerald Hahn

Murphy, Amy

From: Turner, Matthew <Matthew.Turner@dep.nj.gov>
Sent: Monday, June 26, 2017 2:00 PM
To: Murphy, Amy
Cc: Neumann, Greg; Toppin, Swati; Kloo, Ken
Subject: Delphi Interior/Racer Trust, PI 011336
Attachments: Delphi PI 011336 IGWSRS 6-21-17.docx

Amy

The NJDEP has completed a review of the RAR submitted for the above subject site. In the review of the spatially weighted average, the SPLP and the SESOIL the NJDEP has identified the below listed and attached issues that should be addressed. Please review the issues and provide a response within the next two weeks if possible. The NJDEP requests that you confirm receipt of this E-mail.

The spatially weighted averaging conducted to evaluate the impact to groundwater pathway is questionable and was not conducted in accordance with the Attainment Guidance document. The Functional Area boundaries established by Delphi extended laterally (perpendicularly) to the property boundaries; this does not follow the guidance. The Functional Area Boundaries are to extend perpendicularly to the delineated extent of contamination (i.e. first ring of clean zone samples).

Please see the attachment for additional issues with the submittal. If you have any questions please feel free to contact me at 609-984-1742.

Thanks
Matt

Matthew Turner
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401 E. State Street
P.O. Box 420
Mail Code 401-05D
Trenton, NJ 08625-0420
609-984-1742

Delphi/Racer PI 011336, Component Review for IGWSRS

IGWSRS derived using SPLP

The proposed Impact to Ground Water Soil Remediation Standards (IGWSRS) derived via SPLP sampling are acceptable for the following compounds. It is assumed that the sampling is representative and the QA/QC is acceptable:

Arsenic 19 ppm, Chromium 1,540 ppm, Nickel 9,200 ppm, Zinc 14,200 ppm, Benzene 0.2 ppm, chlorobenzene 83 ppm, trichloroethene 0.13 ppm, vinyl chloride 0.06 ppm.

Greg Neumann is reviewing the compliance averaging associated with these compounds.

Lead, Benzo(a)anthracene and Benzo(a)pyrene

Immobile contaminant option

The rationale that these satisfy the requirements for the immobile contaminants option because they are mostly delineated with a 2' buffer zone is rejected.

“Mostly” is not acceptable; all samples must be at all below the IGWSRS with a 2' buffer. Please refer to this option at

http://www.nj.gov/dep/srp/guidance/rs/immobile_chemicals.pdf

SESOIL modeling

The contention that they are also not likely to impact ground water as demonstrated by SESOIL modeling was reviewed by Dr. Paul Sanders. His comments are as follows:

“SESOIL Model Runs

Brief mention is made of SESOIL model runs (page 29), and incomplete SESOIL documentation is provided in Appendix K, but the purpose of these model runs are not clear, and there is no indication if they apply to particular AOCs, etc. Model runs are presented for benzo(a)anthracene, benzo(a)pyrene and lead.

If these runs are being presented to demonstrate that the contaminant will not impact the ground water, there are problems with the model runs (see below).

If SESOIL analysis is being used to develop alternative impact to ground water remediation standards for these three contaminants, adequate documentation and discussion needs to be provided regarding contaminant delineation, ground water depth, and documentation of other site specific parameters used, if other than

default values are used. (Default soil texture is sand, default soil organic carbon is 0.2%). This discussion should be provided on an AOC-specific basis.

Only the pollutant cycle report is shown for these runs. The other output pages are needed as well, especially the profile and load report, which shows the input parameters. Additionally, a SESOIL model table needs to be prepared showing the delineation results and the concentrations entered into the SESOIL model (see SESOIL/AT123D guidance).

The benzo(a)anthracene and benzo(a)pyrene runs show contaminant beginning transport 6 feet above the water table. If delineation shows these 2 contaminants have a six foot clean zone between the contamination and water table, the SESOIL runs are not necessary, as per immobile chemical guidance. If these two contaminants actually extend to the water table, then these two runs are incorrect.

A series of lead runs are presented, and are unidentified regarding which AOC, etc. These runs appear to be modeling lead extending all the way to the water table. However, because SESOIL starts contaminant transport in the middle of a soil sublayer, it may appear that contaminant does not reach the water table even when it already extends all the way to the water table. See the following impact to ground water FAQ from the remediation standard website:

1. When using SESOIL without AT-123D, is a clean zone required between the contamination and the water table?

The Department policy has changed on this issue and the guidance document at <http://www.nj.gov/dep/srp/guidance/rs/sesoil.pdf> will be modified to reflect this change. A clean soil zone is not required if 1) maximum expected leachate concentrations of the contaminant are achieved during the model run due to elimination of the contaminant from the vadose zone, or 2) the contaminant travels at least one sublayer in distance over 100 years (normally 1 foot) and the leachate concentration at the bottom of the soil column does not exceed the applicable leachate criterion. Since the SESOIL model begins contaminant transport in the middle of a soil sublayer, the contaminant must travel a minimum of 6 inches (in a 1-foot sublayer) in order to reach the water table. This may result in highly adsorbed contaminants not reaching the water table during the model run even though the contaminant is in contact with the water table at the site. This discrepancy is dealt with by the above modeling requirements, which ensure contact of the contaminant with the water table.

To be in accordance with option (2) in the above FAQ, either the model run can be extended (by hundreds of years) to achieve a 12" transport distance of lead (assuming 1-foot sublayers), or the bottom sublayer can be reduced in vertical height to the distance actually traveled by the contaminant in 100 years. (In the first lead run presented, the bottom sublayer would need to be reduced to 4.9 cm.) Note that it is likely that this will result in unacceptable SESOIL results.

A suggested path forward: benzo(a)anthracene, benzo(a)pyrene and lead contamination further than two feet above the water table qualify for immobile chemical consideration (assuming criteria are met as listed in immobile chemical guidance). The focus then becomes the contaminant located within two feet of the water table. It is suggested that SPLP testing, if it has not been done, be carried out on these three contaminants, to determine whether the alternative remediation standards determined via SPLP will pass contaminant concentrations within two feet of the water table. The samples should include the highest concentrations observed within two feet of the water table. It is preferred that the samples be taken within the two feet zone above the water table. However, if it is judged that shallower soil exhibits equivalent characteristics to the deeper soil, shallower samples may be taken as long as it includes the highest concentrations observed within two feet of the water table."

Impact to ground water soil remediation standards are therefore still needed for lead, benzo(a)pyrene and benzo(a)anthracene. Some options for developing these are:

1. SPLP analysis can be undertaken for these contaminants. As stated above, it is unclear where SESOIL analysis was undertaken in relation to sample concentrations. Was an AOC split up with some samples being part of the Immobile option, and some part of the SPLP option? Therefore while the actual sample locations need to be clarified and justified, SPLP is an option.
2. SESOIL can be correctly applied to these contaminants.
3. IGWSSLs can be used as site specific IGWSRS.

Once acceptable IGWSRS are developed for these compounds, compliance averaging review, if presented and allowed (depending on methodology used to address IGW pathway) can be conducted.

Please contact me if you have further issues.

ATTACHMENT B
DETAILED RESPONSE TO COMMENTS

NJDEP COMMENTS AND RESPONSES

Spatially Weighted Average

NJDEP Comment: “The spatially weighted averaging conducted to evaluate the impact to groundwater pathway is questionable and was not conducted in accordance with the Attainment Guidance document. The Functional Area boundaries established by Delphi extended laterally (perpendicularly) to the property boundaries; this does not follow the guidance. The Functional Area Boundaries are to extend perpendicularly to the delineated extent of contamination (i.e. first ring of clean zone samples).

1. If a *site-specific* [sic] IGW criteria for a contaminant is developed and approved by the DEP, then that number shall serve as the delineation criteria when establishing the boundaries of the Function Area. The Functional Area boundaries only need to extend to the sample points needed to delineate the contamination to the site-specific standard. They do not need not extend to sample locations with concentrations at or below the *default* IGW criteria, unless these concentrations form the one allowable outer ring of “clean” samples used to delineate the area. This will ensure there is no excess of clean samples (defined as below the site specific standard) to incorrectly influence the SWA calculation.
2. The Draft Tables dated November 2016 depict Functional Area Boundaries established across the entire Site with the width of the Functional Areas extending to their respective property boundaries that are perpendicular to the directional flow of groundwater.
 - This approach does not follow the guidance in terms of determining the Functional Area boundaries relative to *distinct areas of contamination* that are present across the entire Site (as opposed to developing FAs across the entire Site). Each *distinct area of contamination* needs to be addressed separately with 1 or more Functional Areas. The total number of Functional Areas required for each *distinct area of contamination* is dependent upon the extent of contamination relative to establishing Functional Area boundaries with lengths 100’ parallel to groundwater flow.
 - Additionally, the width of the Functional Area boundaries should not extend to the property boundary. The width of the Functional Area boundaries need only extent to sample(s) that provide delineation to the appropriate standard. As an example, please see the attached Figure that presents “approximate” *distinct areas of contamination* and related Functional Area boundaries taking into account the above. Please note that these boundaries are rough estimates used to simply illustrate the above issues, they were not established by reviewing individual sample location concentrations.”

RACER Response: During the preparation of the Soil RAR Addendum and as referenced in the report, Haley & Aldrich under RACER's direction, conducted a detailed review of the Technical Guidance specifically to verify that the length of the functional area, perpendicular to groundwater flow direction, used in the calculations, followed the Technical Guidance. The following provides excerpts of what was identified in the Technical Guidance.

Section 5.4 of the Soil RAR Addendum: As identified in the *Technical Guidance for the Attainment of Remediation Standards and Site-Specific Criteria* (version 1.0, 2012):

"Unlike the direct contact pathways, determining compliance for the impact to ground water pathway is based on the full extent of the contamination. Onsite and offsite areas are not evaluated separately. The reason for this is because the receptor, the ground water, is not confined to a Site, but extends across the adjacent site and beyond. The same compliance procedures are used whether an AOC extends offsite or not."

In addition to the above quote from the technical guidance, the following description for creation of functional areas is provided.

"For the impact to ground water exposure pathway, the functional area is based on the size of the AOC. The relevant dimension is the length of the AOC in the direction parallel to ground water flow. There is no constraint on the length of the AOC in the direction perpendicular to ground water flow."

Further review of the case study that the NJDEP used as an example identified a similar determination of the functional area length as site-wide. We understand that the reasoning behind this is that the exceedances of default or site-specific criteria remaining on the Site, post remediation, relate to non-point source impacts, the same as what is observed on the Ewing Site. At the Ewing Site, 19,000 tons of soil and sediment have been removed to address elevated soil concentrations that exceeded target non-residential soil criteria. What remains, as evidenced by the figures contained in Appendix L of the Soil RAR Addendum, is a wide-spread, scattered distribution of soil above the default or Site-Specific impact to groundwater (IGW) criteria, completely consistent with the NJDEP example. Also, consistent with the NJDEP case example, the IGW evaluation, to be protective of current and/or future groundwater, needs to look at the groundwater receptor as a whole, rather than individual points of impact. Hence the purpose of spatially weighted averaging across the Site, which presents a more representative evaluation of whether a groundwater receptor could be impacted by IGW issues.

We understand that the purpose of the IGW evaluation is to consider and address the potential future impacts to groundwater to a potable use standard. As discussed in the Soil RAR and Groundwater Remedial Investigation Report (Haley & Aldrich, May 2016) (Groundwater RIR), the releases identified at the Site are old, many dating back to the 1950s. In addition, the manufacturing plant at the Site closed in 1998, which eliminated the potential for process-related additional impacts for nearly the last 20 years. As such, impacts to groundwater by these constituents has already occurred. These releases, based on the data provided in the

Groundwater RIR, may have a minor detrimental impact on groundwater at the Site, however the downgradient receptor, Gold Run, is not adversely impacted from the Site. No other groundwater receptors are present in the area. Furthermore, groundwater use at the Site is prohibited by a Classification Exception Area. In addition, due to groundwater impacts in the area by others offsite, both upgradient and downgradient groundwater is prohibited from use through CEAs.

The NJDEP's proposed limitation of the spatially weighting only "distinct areas of contamination", is not representative of the remaining wide-spread constituent detections across the Site. Spatially weighting only the exceeding concentration(s) to the next sample that provides delineation of the appropriate standard will bias the evaluation to the highest concentration(s) and thus not yield any real spatial averaging across the Site. As such, the biasing will result in an overly-conservative evaluation of the potential future impacts and consequently excessive soil excavations to address IGW issues that are insignificant (from a receptor perspective) and that have already occurred.

IGWSRS derived using SPLP

NJDEP Comment: "The proposed Impact to Ground Water Soil Remediation Standards (IGWSRS) derived via SPLP sampling are acceptable for the following compounds. It is assumed that the sampling is representative and the QA/QC is acceptable: Arsenic 19 ppm, Chromium 1,540 ppm, Nickel 9,200 ppm, Zinc 14,200 ppm, Benzene 0.2 ppm, chlorobenzene 83 ppm, trichloroethene 0.13 ppm, vinyl chloride 0.06 ppm."

RACER Response: No response required, the site-specific standards are carried throughout the IGW evaluation.

Immobile Contaminants

NJDEP Comment: "The rationale that these satisfy the requirements for the immobile contaminants option because they are mostly delineated with a 2' buffer zone is rejected. "Mostly" is not acceptable; all samples must be at all below the IGWSRS with a 2' buffer. Please refer to this option at http://www.nj.gov/dep/srp/guidance/rs/immobile_chemicals.pdf"

RACER Response: Extensive investigation has been conducted to date to delineate scattered constituent detections across the Site. The investigations have included follow-up and re-sampling events to define elevated detections at many of the pre-2009 soil boring locations. The following summarize the extensive effort conducted to define the nature and extent of impacts at the Site:

- Soil Borings: 1628
- Monitoring Wells: 142
- Sediment Samples: 123
- Soil Samples: 3155
- Soil Under Water Table: 293

Table 1 presents the descriptive statistics of the Site-wide soil borings vertical delineation and Figure 1A through 1I presents a visual overview of the Site-wide soil borings vertical delineation to Default Impact to Groundwater Soil Remediation Standard (DIGWSRS). Based on the descriptive statistics presented in Table 1 and visuals presented in Figure 1A Through 1I, more than 94% of the soil borings completed at the Site show vertical delineation to DIGWSRS for benzo(a)anthracene, benzo(a)pyrene, and lead in 2' buffer zone above water table. The vertical delineation is determined based on comparing the bottom most sample at each boring with DIGWSRS. If a clean bottom sample is not collected in that zone then a clean sample from one of the multiple surrounding borings was utilized to show vertical delineation in the AOC. Table 2 presents the sample frequency of AOC-specific exceedances above DIGWSRS in the 2' buffer zone. The remaining fraction, less than 6%, of the soil borings that do not show vertical delineation below the DIGWSRS with a 2' buffer zone were further evaluated using SESOIL model, detailed in the following sections.

SESOIL modeling

NJDEP Comment: "Brief mention is made of SESOIL model runs (page 29), and incomplete SESOIL documentation is provided in Appendix K, but the purpose of these model runs are not clear, and there is no indication if they apply to particular AOCs, etc. Model runs are presented for benzo(a)anthracene, benzo(a)pyrene and lead.

If these runs are being presented to demonstrate that the contaminant will not impact the ground water, there are problems with the model runs (see below).

If SESOIL analysis is being used to develop alternative impact to ground water remediation standards for these three contaminants, adequate documentation and discussion needs to be provided regarding contaminant delineation, ground water depth, and documentation of other site specific parameters used, if other than default values are used. (Default soil texture is sand, default soil organic carbon is 0.2%). This discussion should be provided on an AOC-specific basis."

RACER Response: The inclusion of the SESOIL modeling in the Soil RAR Addendum was used as secondary method to verify the conclusion that benzo(a)anthracene, benzo(a)pyrene, and lead are immobile contaminant determination.

NJDEP Comment: "Only the pollutant cycle report is shown for these runs. The other output pages are needed as well, especially the profile and load report, which shows the input parameters. Additionally, a SESOIL model table needs to be prepared showing the delineation results and the concentrations entered into the SESOIL model (see SESOIL/AT123D guidance)."

RACER Response: As noted in the report, the default input parameters were utilized in the SESOIL modeling to verify the conclusion that benzo(a)anthracene, benzo(a)pyrene, and lead are immobile contaminant determination. A more complete set of SESOIL modeling is presented below to further evaluate the small percentage of locations that do not show vertical

delineation below the DIGWSRS with a 2' buffer zone, with the supporting documentation provided in Attachment C.

NJDEP Comment: "The benzo(a)anthracene and benzo(a)pyrene runs show contaminant beginning transport 6 feet above the water table. If delineation shows these 2 contaminants have a six foot clean zone between the contamination and water table, the SESOIL runs are not necessary, as per immobile chemical guidance. If these two contaminants actually extend to the water table, then these two runs are incorrect.

A series of lead runs are presented, and are unidentified regarding which AOC, etc. These runs appear to be modeling lead extending all the way to the water table. However, because SESOIL starts contaminant transport in the middle of a soil sublayer, it may appear that contaminant does not reach the water table even when it already extends all the way to the water table. See the following impact to ground water FAQ from the remediation standard website:

1. When using SESOIL without AT-123D, is a clean zone required between the contamination and the water table?

The Department policy has changed on this issue and the guidance document at <http://www.nj.gov/dep/srp/guidance/rs/sesoil.pdf> will be modified to reflect this change. A clean soil zone is not required if 1) maximum expected leachate concentrations of the contaminant are achieved during the model run due to elimination of the contaminant from the vadose zone, or 2) the contaminant travels at least one sublayer in distance over 100 years (normally 1 foot) and the leachate concentration at the bottom of the soil column does not exceed the applicable leachate criterion. Since the SESOIL model begins contaminant transport in the middle of a soil sublayer, the contaminant must travel a minimum of 6 inches (in a 1- foot sublayer) in order to reach the water table. This may result in highly adsorbed contaminants not reaching the water table during the model run even though the contaminant is in contact with the water table at the site. This discrepancy is dealt with by the above modeling requirements, which ensure contact of the contaminant with the water table.

To be in accordance with option (2) in the above FAQ, either the model run can be extended (by hundreds of years) to achieve a 12" transport distance of lead (assuming 1-foot sublayers), or the bottom sublayer can be reduced in vertical height to the distance actually traveled by the contaminant in 100 years. (In the first lead run presented, the bottom sublayer would need to be reduced to 4.9 cm.) Note that it is likely that this will result in unacceptable SESOIL results.

A suggested path forward: benzo(a)anthracene, benzo(a)pyrene and lead contamination further than two feet above the water table qualify for immobile chemical consideration (assuming criteria are met as listed in immobile chemical guidance). The focus then becomes the contaminant located within two feet of the water table. It is suggested that SPLP testing, if it has not been done, be carried out on these three contaminants, to determine whether the alternative remediation standards determined via SPLP will pass contaminant concentrations within two feet of the water table. The samples should include the highest concentrations observed within two feet of the water table. It is preferred that the samples be taken within the two feet zone above the water table. However, if it is judged that shallower soil

exhibits equivalent characteristics to the deeper soil, shallower samples may be taken as long as it includes the highest concentrations observed within two feet of the water table.”

Impact to ground water soil remediation standards are therefore still needed for lead, benzo(a)pyrene and benzo(a)anthracene. Some options for developing these are:

1. SPLP analysis can be undertaken for these contaminants. As stated above, it is unclear where SESOIL analysis was undertaken in relation to sample concentrations. Was an AOC split up with some samples being part of the Immobile option, and some part of the SPLP option? Therefore while the actual sample locations need to be clarified and justified, SPLP is an option.
2. SESOIL can be correctly applied to these contaminants.
3. IGWSSLs can be used as site specific IGWSRS.

Once acceptable IGWSRS are developed for these compounds, compliance averaging review, if presented and allowed (depending on methodology used to address IGW pathway) can be conducted.”

RACER Response: To provide clarification to the conclusion that benzo(a)anthracene, benzo(a)pyrene, and lead are considered immobile, additional IGW evaluation was performed for benzo(a)anthracene, benzo(a)pyrene, and lead:

SESOIL MODELING

For AOC's that failed to demonstrate compliance with DIGWSRS in the 2' buffer zone using single point compliance, the immobile contaminant behavior was modeled in a seasonal soil (SESOIL) compartment model following NJDEP guidance “Using the SESOIL Transport Model to Assess the Impact to Ground Water Pathway (NJDEP, 2008)”.

The SESOIL modeling was performed using the following procedure:

- Worst-case SESOIL modeled concentration profile determination for each AOC.
- Worst-case AOC concentration behavior modeling in unsaturated zone using SESOIL with NJDEP default (soil and chemical) input parameters.
- Soil borings that remained issue with default soil parameters were evaluated using AOC-specific soil parameters.

The soil concentrations from various soil borings within the AOC were compiled into one profile to determine a worst-case AOC concentration profile, which is a conservative over-simplified representation of the impacts in the AOC. The significant portion of historic soil samples were handled based on the procedures described in Section 5.4.1.3 of May 2017 Soil RAR Addendum, except ND's and concentrations below DIGWSRS were replaced with zero, per the *Technical Guidance (N.J.A.C. 7:26E and Guidance using the SESOIL transport model to assess the impact to ground water pathway (NJDEP, 2008; “SESOIL guidance”)*. Tables C.1 – C.13 in Attachment C present concentrations from all soil borings at each 1-foot depth interval between the soil surface and the water table for AOC arranged in columns, with the maximum concentration from all borings in a first column. The AOC-specific depth to groundwater was calculated by averaging groundwater depth from existing monitoring wells extrapolated to each of the soil borings in that AOC.

Based on the above evaluation, AOC-8B and AOC-10 concentration profiles were determined as worst-case scenarios for modeling, which is yet another conservatism in this approach. SESOIL modeling for benzo(a)anthracene, benzo(a)pyrene, and lead were performed for AOC-8B and AOC-10 profiles. The SESOIL concentration profiles are presented in Table 3.1 through Table 3.7. The SESOIL modeling was performed using SEVIEW 7.1 version. The Input Parameters used in the SESOIL runs are described below:

Climate Data:	Climate data from Trenton weather station that is included with model software was used.
Chemical Properties:	Default chemical properties used as per the NJDEP chemical properties table located at http://www.nj.gov/dep/srp/guidance/rs/chemproperties.pdf
Soil Properties:	Default soil texture (sand) and soil properties used as per NJDEP guidance.
Contaminant Profile:	AOC-specific maximum contaminant profile was determined following NJDEP guidance. Contaminant Load Parameters POLIN, TRANS, LIG, ISRM, VOLF and ASL were set to zero.
Soil Layer Thickness:	1-foot sublayer thickness was used for entire soil column except bottom 1-foot layer. Thinner sublayer thickness (1/8 th -foot sub layers ~3.81 cm.) used for bottom 1-foot layer above the water table to conservatively model a fraction of soil borings that extends the contamination all the way to the water table in accordance with option (2) in the impact to ground water FAQ from the remediation standard website.
Model Run:	The model was run using a 1-month time step for 100 years to determine the maximum leachate concentration of constituents that may impact groundwater. The model run was selected as 100 years since the department considers protection of the groundwater for 100 years is acceptable if the SESOIL results indicate a ground water concentration that does not exceed the Leachate Criteria for at least 100 years for immobile contaminants. Further, the bottom sublayer thickness is reduced in vertical height to thinner sublayers (~3.81 cm.) to conservatively model the immobile contaminants.

The SESOIL model input and outputs are provided in Attachment C and maximum leachate concentrations in the bottom most layer is summarized in Table 4. Based on the SESOIL model runs, benzo(a)anthracene, benzo(a)pyrene, and lead are determined to be immobile for all AOC's except 2 soil borings (out of 694) in AOC-8B for lead.

The two lead soil borings (B8-8-4-102 and SB-80SO-14-101) in AOC-8B were further modeled using site-specific parameters. Generally, as presented in the site boring logs, the median sub-surface soil profile at B8-8-4-102 and SB-80SO-14-101 are silt or silt clay. Additionally, Attachment C presents the Ground-Water Recharge for Mercer County, New Jersey prepared by

New Jersey Geological Survey. Based on the geological survey map, the Site location shows 0 inches/year groundwater recharge. The SESOIL run was performed using silty clay as site-specific soil profile for the two borings in AOC-8B, along with a conservative approximately 1 inch/year of recharge. The SESOIL input and output for these runs are presented in Attachment C and maximum leachate concentrations in the bottom most layer is summarized in Table 4.

Based on the SESOIL model runs, it is determined that benzo(a)anthracene, benzo(a)pyrene, and lead are considered to be immobile for all AOC's. Additional lines of evidences for benzo(a)anthracene and benzo(a)pyrene are presented in the following section.

COMPARISON OF SESOIL TO GROUNDWATER ANALYTICAL DATA

Additional lines of evidences are provided to support the SESOIL model runs using *"Guidance for the Site Soil and Ground Water Analytical Data Evaluation" (Metals and Semi-Volatile Organic Compounds Contamination)*. Ground water detections for benzo(a)anthracene and benzo(a)pyrene were evaluated for monitoring well MW-7 in AOC-8B and monitoring well MW-4 in AOC-10. The groundwater analytical data from three recent rounds collected from MW-4 and MW-7 indicate no exceedances of benzo(a)anthracene and benzo(a)pyrene above NJDEP groundwater quality standards. Table 5 presents the groundwater analytical data from MW-4 and MW-7.

Ecological Component Review

NJDEP Comment: 1. "(p.13) Receptor Evaluation Summary, 2.4.4.2 Soils - based on the data provided in the Table E-1 for soil remaining outside of the remediated areas of AOCs 11 and 12, ETRA concurs with conclusions that post remedial surficial wetland soil contaminant levels are unlikely to result in adverse effects to ecological receptors using this wetland. Moreover, while several samples indicated elevated Zinc levels, this reviewer determined that the average 0-6" Zinc concentration is approximately 220 mg/kg, slightly exceeding the range of ecological screening criteria (ESC). Note that data from location ISO37 indicates highly elevated surficial Zinc concentrations of 2650 mg/kg, but was not included in the average calculation because Figure 11 indicates it was within the remediation footprint – the LSRP should verify that this is a correct assumption. However, because subsurface/soil biotic zone data for the Southern Swale unremediated area are not provided, the LSPR [sic] should address potential risk to wildlife from direct exposure to subsurface soils in unremediated zones, such as direct exposure to burrowing mammals and food chain risk to wildlife from soil benthos prey consumption. For future projects, please note that N.J.A.C.7:26E-4.8 requires risk characterization as part of the remedial investigation."

RACER Response: It has been confirmed that location ISO37 is within the remediated area of AOC 12 and the was excavated to 2 feet bgs. Figure 1 and Table E-1a have been updated to reflect this correction (Attachment D). Unremediated soil samples from the 0.5 to 3.0 feet depth interval in AOC-11 and habitable areas of AOC-12 (i.e. not paved) were evaluated to determine potential adverse effect for burrowing animals or benthos prey consumption for terrestrial animals (Table E-1b). The suite of metals in soils were compared to the ESC, which included the USEPA Ecological Soil Screening Levels (EcoSSLs) as well as the more conservative

Wildlife Preliminary Remediation Goal (PRG) values. Of the metals tested, chromium, copper, nickel and zinc had at least one value which exceeded the respective ESC. For chromium, all results were below the minimum range of the USEPA EcoSSLs (26-46 mg/kg). For copper, the majority of the results were below the minimum range of the USEPA EcoSSLs (28-70 mg/kg), and one result fell within the range (ISO34 at 60.7 mg/kg). For nickel, only two results were above the ESC; however, both were below the minimum range of the USEPA EcoSSLs (38-280 mg/kg). Most of the values for zinc fell within the EcoSSL range of 46-160 mg/kg; ASO29 and ISO34 were outliers at 167 mg/kg and 1,620 mg/kg, respectively. However, the sample interval for ISO34 (2.75-3.25 feet) is a conservative depth for burrowing animals. Based on the above analysis, it can be concluded that, with the exception of zinc in very isolated areas (e.g. ASO29 and ISO34), metals would not pose a significant risk to burrowing and terrestrial animals as they were detected at concentrations that are within a range of EcoSSL benchmarks which are deemed acceptable by the USEPA.

NJDEP Comment: “2. (p.14) Receptor Evaluation Summary, 2.4.4.3 Sediment – Regarding remaining sediment in Gold Run (AOC11), based on text and data from Table E-2 for samples WSE4 and WSE5, unremediated sediment contaminant levels are not likely to result in adverse ecological effects. Note that the three samples cited on p. 14, GR-05, WSE4, and WSE 5, could not be located on Figure 10, AOC 11 Gold Run Pond; please provide a figure with these sample locations and concentrations.”

RACER Response: Sample locations GR-05, WSE4 and WSE5 are located at the convergence of Gold Run and the Southern Swale in the southeast corner of the Site. No remediation was conducted in this area; therefore, the area was not included as part of figures for the Soil Remedial Action Report or the Soil Remedial Action Report Addendum. However, soil concentrations related to these sample locations were provided on Table E-2 of the Soil RAR Addendum.

NJDEP Comment: “Regarding the Southern Drainage Swale (AOC12), ETRA concurs contaminants remaining under 2 feet of clean backfill are not within the sediment biotic zone. However, the data provided in Table E-2 is confusing in that ASE8, ISE6, ISE7, and ISE 8 appear to be in remediated/excavated areas (Figure 11), and are not representative of “remaining” concentrations. Therefore, this reviewer considered certain locations from Table E-1 as sediment, and examined data from unexcavated swale locations ASO4, ASO5, ASO6, and B6-12; remaining contaminant levels are not considered of ecological concern. It is requested that the LSRP verify the approach I used has identified representative remaining sediment concentrations in the swale.”

RACER Response: Excavations in the Southern Swale (AOC-12) extended to 2 feet bgs. The attached revised Table E-2 from the Soil RAR Addendum, presents remaining sediment concentrations for locations ASE8, ISE6, ISE7, and ISE 8 below the excavated area from the 2 to 3 feet zone. We acknowledge this interval is not within the sediment biotic zone, however as a conservative check, we included this data in our evaluation. We concur with the NJDEP that remaining contaminant levels are not considered of ecological concern.

TABLES

TABLE I
SITE-WIDE VERTICAL DELINEATION STATISTICS
EWING TOWNSHIP INDUSTRIAL LAND
EWING , NEW JERSEY

Immobile Contaminants	Borings	No Vertical Delineation in 2 feet Buffer Zone Above Watertable		Exceeding AOCs
		Borings	Percentage	
Benzo(a)anthracene	634	27	4%	AOC-01A, AOC-01D, AOC-08A, AOC-08B, AOC-09, AOC-10, AOC-11
Benzo(a)pyrene	635	37	6%	AOC-08B, AOC-10
Lead	694	39	6%	AOC-01D, AOC-08B, AOC-10, AOC-11

TABLE II
FREQUENCY OF AOC-SPECIFIC EXCEEDANCES
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Area of Concern	Benzo(a)anthracene			Benzo(a)pyrene			Lead		
	>DIGWSRS	Total Borings	Percentage	>DIGWSRS	Total Borings	Percentage	>DIGWSRS	Total Borings	Percentage
AOC-01A	0	13	0%	0	13	0%	1	47	2%
AOC-01D	0	4	0%	1	4	25%	1	32	3%
AOC-08A	0	49	0%	0	49	0%	1	61	2%
AOC-08B	12	59	20%	12	59	20%	11	56	20%
AOC-09	0	122	0%	0	122	0%	1	86	1%
AOC-10	14	104	13%	22	104	21%	20	86	23%
AOC-11	0	29	0%	1	30	3%	1	20	5%

Notes:

1. DIGWSRS = Default Impact to Groundwater Soil Remediation Standard

TABLE III.i
SESOIL RESULTS - AOC-08B: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-4 7/14/1998	B8-4-101 1/12/2011	B8-4-103 1/17/2011	B8-6-100 1/17/2011	B8-6-101 1/17/2011	B8-6-102 1/17/2011	B8-6-103 1/17/2011	B8-7 7/15/1998	B8-8 7/15/1998	B8-8-1-100 1/19/2011
0 - 1	289	0 - 0.5	289		33	-	87	-	-	-	-	140	85	11.3
		0.5 - 1	179		-	-	-	140	85.5	58.3	89.4	-	-	-
1 - 2	297	1.5 - 2	113		-	-	28.7	-	-	-	-	-	-	-
		1 - 1.5	297		-	-	-	-	-	-	-	-	-	7.7
2 - 3	295	2 - 2.5	295		-	-	-	89.7	32.2	14.8	0	-	-	-
		2.5 - 3	20		-	-	-	-	-	-	-	-	-	-
3 - 4	1110	3 - 3.5	1110		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	436		-	-	-	-	-	-	-	-	-	-
4 - 5	436	4 - 4.5	436		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	436		-	-	-	-	-	-	-	-	-	-
5 - 6	436	5 - 5.5	436		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	336		-	-	-	-	336	-	-	-	-	-
6 - 7	7510	6 - 6.5	7510		800	-	-	160	-	136	7510	-	-	-
		6.5 - 7	800		800	-	-	-	-	-	-	-	-	-
7 - 8	4770	7 - 7.5	4770		800	-	-	-	-	-	-	-	-	59.3
		7.5 - 8	4770		800	-	-	-	-	-	-	-	-	59.3
8 - 9	860	8 - 8.5	331		-	331	126	-	-	-	-	-	-	-
		8.5 - 9	860		-	-	-	-	-	-	-	-	-	-
9 - 10	860	9 - 9.5	860		-	-	-	-	-	-	-	13	860	-
		9.5 - 10	860		-	-	-	396	-	-	-	13	860	308
10 - 11	931	10 - 10.5	577		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	931		-	-	-	-	-	-	-	-	-	-
11 - 12	0	11 - 11.5	14.3		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			12		9.75	9.52	9.01	9.69	9.69	9.80	10.65	12.40	13.15	14.55

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.i
SESOIL RESULTS - AOC-08B: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-1-101 1/19/2011	B8-8-1-102 1/19/2011	B8-8-1-103 1/19/2011	B8-8-2-100 1/19/2011	B8-8-2-101 1/19/2011	B8-8-2-102 1/19/2011	B8-8-3 1/18/2008	B8-8-4-100 1/17/2011	B8-8-4-101 1/17/2011	B8-8-4-103 1/18/2011
0 - 1	289	0 - 0.5	289		7.4	23.3	33.3	62	289	52.5	77.3	44.9	40.9	41.1
		0.5 - 1	179		-	-	-	-	-	-	-	-	-	-
1 - 2	297	1.5 - 2	113		-	51.1	13.9	-	-	-	-	-	-	-
		1 - 1.5	297		3.9	-	-	24	24.7	17.2	-	37.7	24	18.3
2 - 3	295	2 - 2.5	295		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	20		-	-	-	-	-	-	-	-	-	-
3 - 4	1110	3 - 3.5	1110		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	436		-	-	-	-	-	-	-	-	-	-
4 - 5	436	4 - 4.5	436		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	436		-	-	-	-	-	-	-	-	-	-
5 - 6	436	5 - 5.5	436		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	336		-	-	-	-	-	-	-	27.1	-	-
6 - 7	7510	6 - 6.5	7510		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	800		-	-	-	-	-	-	-	-	-	-
7 - 8	4770	7 - 7.5	4770		130	118	38.6	3520	2070	93.6	-	-	19.2	-
		7.5 - 8	4770		130	118	-	3520	2070	93.6	-	-	-	13.3
8 - 9	860	8 - 8.5	331		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	860		-	-	-	-	-	-	-	-	-	-
9 - 10	860	9 - 9.5	860		-	-	-	-	-	-	48.2	-	-	-
		9.5 - 10	860		-	-	-	433	-	132	-	-	-	-
10 - 11	931	10 - 10.5	577		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	931		115	284	-	-	931	-	-	-	-	-
11 - 12	0	11 - 11.5	14.3		-	-	-	-	-	-	-	-	-	14.3
Average Depth to Water			12		14.68	14.79	14.42	13.05	13.11	13.02	11.08	14.21	13.46	12.86

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.i
SESOIL RESULTS - AOC-08B: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	JSO11-100 1/14/2011	JSO11-101 1/14/2011	JSO11-102 1/14/2011	JSO11-103 1/14/2011	JSO22 10/3/2002	JSO23 10/3/2002	SB-8-SO-11-100 1/14/2011	SB-8-SO-11-101 1/14/2011	SB-8-SO-11-102 1/14/2011	SB-8-SO-11-103 1/14/2011
0 - 1	289	0 - 0.5	289		-	-	-	-	-	30.8	-	-	-	-
		0.5 - 1	179		126	96	88	68.6	-	-	56	51.4	40.7	179
1 - 2	297	1.5 - 2	113		-	-	103	-	-	-	-	64.3	-	-
		1 - 1.5	297		-	-	-	-	-	-	-	-	-	-
2 - 3	295	2 - 2.5	295		193	150	-	218	-	-	295	-	88	57.8
		2.5 - 3	20		20	-	-	-	-	-	-	-	-	-
3 - 4	1110	3 - 3.5	1110		-	-	-	-	-	-	-	-	1110	-
		3.5 - 4	436		-	-	-	-	10.4	10	-	-	-	436
4 - 5	436	4 - 4.5	436		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	436		-	-	-	-	-	-	-	-	-	-
5 - 6	436	5 - 5.5	436		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	336		-	-	-	27.6	-	-	-	-	-	-
6 - 7	7510	6 - 6.5	7510		-	1290	-	-	-	-	321	-	-	-
		6.5 - 7	800		-	-	-	-	-	-	-	-	-	-
7 - 8	4770	7 - 7.5	4770		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	4770		-	-	-	-	-	-	-	-	-	-
8 - 9	860	8 - 8.5	331		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	860		-	-	-	-	-	-	-	-	-	-
9 - 10	860	9 - 9.5	860		-	-	-	-	-	-	-	-	-	-
		9.5 - 10	860		-	526	-	-	-	-	-	-	-	-
10 - 11	931	10 - 10.5	577		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	931		-	-	-	-	-	-	-	-	-	-
11 - 12	0	11 - 11.5	14.3		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			12		9.99	10.04	9.99	9.94	16.25	17.33	9.25	9.27	9.18	9.28

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.i
SESOIL RESULTS - AOC-08B: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-8-SO-12-100 1/17/2011	SB-8-SO-12-101 1/17/2011	SB-8-SO-12-102 1/17/2011	SB-8-SO-12-103 1/17/2011	SB-8-SO-14-100 1/17/2011	SB-AOC8B-2013-100 2/25/2013	SB-AOC8B-2013-101 2/25/2013	SB-AOC8B-2013-102 2/25/2013	SB-AOC8B-2013-103 2/25/2013	SB-AOC8B-2013-104 2/25/2013
0 - 1	289	0 - 0.5	289		-	-	-	-	35.3	100	17.2	117	50	116
		0.5 - 1	179		112	108	90	77.8	-	-	-	-	-	-
1 - 2	297	1.5 - 2	113		81.7	83.9	95.3	113	57.6	-	-	-	-	-
		1 - 1.5	297		-	-	-	-	57.6	8.2	28.8	297	49.8	276
2 - 3	295	2 - 2.5	295		-	-	-	-	57.6	-	-	-	-	-
		2.5 - 3	20		-	-	-	-	-	-	-	-	-	-
3 - 4	1110	3 - 3.5	1110		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	436		-	-	-	-	-	-	-	-	-	-
4 - 5	436	4 - 4.5	436		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	436		-	-	-	-	-	-	-	-	-	-
5 - 6	436	5 - 5.5	436		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	336		-	-	-	-	-	-	-	-	-	-
6 - 7	7510	6 - 6.5	7510		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	800		-	-	-	-	-	-	-	-	-	-
7 - 8	4770	7 - 7.5	4770		-	-	-	-	4770	-	-	-	-	-
		7.5 - 8	4770		101	-	-	-	4770	-	-	-	-	-
8 - 9	860	8 - 8.5	331		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	860		-	-	-	-	-	-	-	-	-	-
9 - 10	860	9 - 9.5	860		-	-	-	-	-	-	-	-	-	-
		9.5 - 10	860		-	-	-	-	-	6.4	457	110	10.2	366
10 - 11	931	10 - 10.5	577		-	205	-	-	577	-	-	-	-	-
		10.5 - 11	931		-	-	-	-	-	-	-	-	-	-
11 - 12	0	11 - 11.5	14.3		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			12		10.03	10.13	9.56	9.61	13.16	17.86	12.62	11.45	11.27	10.20

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.i
SESOIL RESULTS - AOC-08B: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC8B-2013-105 2/25/2013	SB-AOC8B-2013-106 2/25/2013	SB-AOC8B-2013-107 2/25/2013	SB-AOC8B-2013-108 2/25/2013	SB-AOC8B-2013-109 2/25/2013
0 - 1	289	0 - 0.5	289		57.5	57.6	66.1	68.5	54.6
		0.5 - 1	179		-	-	-	-	-
1 - 2	297	1.5 - 2	113		-	-	-	-	-
		1 - 1.5	297		67.4	73.3	97.2	70.7	67.6
2 - 3	295	2 - 2.5	295		-	-	-	-	-
		2.5 - 3	20		-	-	-	-	-
3 - 4	1110	3 - 3.5	1110		-	-	-	-	-
		3.5 - 4	436		-	-	-	-	-
4 - 5	436	4 - 4.5	436		-	-	-	-	-
		4.5 - 5	436		-	-	-	-	-
5 - 6	436	5 - 5.5	436		-	-	-	-	-
		5.5 - 6	336		-	-	-	-	-
6 - 7	7510	6 - 6.5	7510		-	-	-	-	-
		6.5 - 7	800		-	-	-	-	-
7 - 8	4770	7 - 7.5	4770		-	-	-	-	-
		7.5 - 8	4770		-	27.8	67.5	35.3	-
8 - 9	860	8 - 8.5	331		-	-	-	-	-
		8.5 - 9	860		-	-	-	-	-
9 - 10	860	9 - 9.5	860		-	-	-	-	-
		9.5 - 10	860		268	-	-	-	45.7
10 - 11	931	10 - 10.5	577		-	-	-	-	-
		10.5 - 11	931		-	-	-	-	-
11 - 12	0	11 - 11.5	14.3		-	-	-	-	-
Average Depth to Water			12		10.66	8.98	8.55	8.54	11.19

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.ii
SESOIL RESULTS - AOC-08B: LEAD (ADDITIONAL)
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-4-102 1/18/2011	SB-8-SO-14-101 1/17/2011
0 - 1	157	0 - 0.5	157		54.8	157
		0.5 - 1	157		-	-
1 - 2	157	1.5 - 2	157		-	-
		1 - 1.5	93.3		93.3	26.8
2 - 3	1230	2 - 2.5	1230		-	-
		2.5 - 3	1230		-	-
3 - 4	1230	3 - 3.5	1230		-	-
		3.5 - 4	1230		-	-
4 - 5	1230	4 - 4.5	1230		-	-
		4.5 - 5	1230		-	-
5 - 6	1230	5 - 5.5	1230		-	-
		5.5 - 6	1230		-	-
6 - 7	1230	6 - 6.5	1230		-	-
		6.5 - 7	1230		-	-
7 - 8	1230	7 - 7.5	1230		-	1230
		7.5 - 8	1230		87.1	1230
8 - 9	1230	8 - 8.5	1230		-	-
		8.5 - 9	1230		-	-
9 - 10	1230	9 - 9.5	1230		-	-
		9.5 - 10	1230		-	-
10 - 11	1230	10 - 10.5	1230		-	-
		10.5 - 11	1230		-	-
11 - 12	719	11 - 11.5	719		686	719
Average Depth to Water			12		14	12

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.
 3. Depth to water is estimated based on SB-8-SO-14-101.

TABLE III.iii
SESOIL RESULTS - AOC-08B: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-4 7/14/1998	B8-4-101 1/12/2011	B8-4-103 1/17/2011	B8-6-100 1/17/2011	B8-6-101 1/17/2011	B8-6-102 1/17/2011	B8-6-103 1/17/2011	B8-7 7/15/1998	B8-8 7/15/1998	B8-8-1-100 1/19/2011
0 - 1	17	0 - 0.5	17		0.23	-	0.26	-	-	-	-	0.074	0.071	0.094
		0.5 - 1	6.9		-	-	-	0.61	2.6	6.4	2.5	-	-	-
1 - 2	18	1 - 1.5	18		-	-	-	-	-	-	-	-	-	0
		1.5 - 2	16		-	-	0	-	-	-	-	-	-	-
2 - 3	14	2 - 2.5	14		-	-	-	0.75	0.063	1.9	0.38	-	-	-
		2.5 - 3	0		-	-	-	-	-	-	-	-	-	-
3 - 4	6.5	3 - 3.5	1.2		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	6.5		-	-	-	-	-	-	-	-	-	-
4 - 5	6.5	4 - 4.5	6.5		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	6.5		-	-	-	-	-	-	-	-	-	-
5 - 6	1.4	5 - 5.5	0		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	1.4		-	-	-	-	1.4	-	-	-	-	-
6 - 7	2.1	6 - 6.5	2.1		2.1	-	-	0	-	0.36	0	-	-	-
		6.5 - 7	2.1		2.1	-	-	-	-	-	-	-	-	-
7 - 8	8	7 - 7.5	3		2.1	-	-	-	-	-	-	-	-	0.36
		7.5 - 8	8		2.1	-	-	-	-	-	-	-	-	0.36
8 - 9	0.85	8 - 8.5	0.85		-	0.26	0.85	-	-	-	-	-	-	-
		8.5 - 9	0		-	-	-	-	-	-	-	-	-	-
9 - 10	4.3	9 - 9.5	0.4		-	-	-	-	-	-	-	0	0.4	-
		9.5 - 10	4.3		-	-	-	0	-	-	-	0	0.4	0.45
10 - 11	12	10 - 10.5	0.35		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	12		-	-	-	-	-	-	-	-	-	-
11 - 12	0	11 - 11.5	0.84		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			12		9.75	9.52	9.01	9.69	9.69	9.80	10.65	12.40	13.15	14.55

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.iii
SESOIL RESULTS - AOC-08B: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-1-101 1/19/2011	B8-8-1-102 1/19/2011	B8-8-1-103 1/19/2011	B8-8-2-100 1/19/2011	B8-8-2-101 1/19/2011	B8-8-2-102 1/19/2011	B8-8-3 1/18/2008	B8-8-4-100 1/17/2011	B8-8-4-101 1/17/2011	B8-8-4-102 1/18/2011
0 - 1	17	0 - 0.5	17		0	0.064	0.057	0.62	0.13	0.26	14	0.063	0	0.066
		0.5 - 1	6.9		-	-	-	-	-	-	-	-	-	-
1 - 2	18	1 - 1.5	18		0	-	-	0	0	0	-	0.082	0.071	0.017
		1.5 - 2	16		-	0.037	0.02	-	-	-	-	-	-	-
2 - 3	14	2 - 2.5	14		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	0		-	-	-	-	-	-	-	-	-	-
3 - 4	6.5	3 - 3.5	1.2		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	6.5		-	-	-	-	-	-	-	-	-	-
4 - 5	6.5	4 - 4.5	6.5		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	6.5		-	-	-	-	-	-	-	-	-	-
5 - 6	1.4	5 - 5.5	0		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	1.4		-	-	-	-	-	-	-	0.86	-	-
6 - 7	2.1	6 - 6.5	2.1		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	2.1		-	-	-	-	-	-	-	-	-	-
7 - 8	8	7 - 7.5	3		0.28	3	0.058	0	1.2	0.27	-	-	0	-
		7.5 - 8	8		0.28	3	-	0	1.2	0.27	-	-	-	0.044
8 - 9	0.85	8 - 8.5	0.85		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	0		-	-	-	-	-	-	-	-	-	-
9 - 10	4.3	9 - 9.5	0.4		-	-	-	-	-	-	0.078	-	-	-
		9.5 - 10	4.3		-	-	-	4.3	-	1	-	-	-	-
10 - 11	12	10 - 10.5	0.35		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	12		0.33	0.43	-	-	12	-	-	-	-	-
11 - 12	0	11 - 11.5	0.84		-	-	-	-	-	-	-	-	-	0.39
Average Depth to Water			12		14.68	14.79	14.42	13.05	13.11	13.02	11.08	14.21	13.46	14.46

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.iii
SESOIL RESULTS - AOC-08B: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-4-103 1/18/2011	JSO11-100 1/14/2011	JSO11-101 1/14/2011	JSO11-102 1/14/2011	JSO11-103 1/14/2011	JSO12-100 1/14/2011	JSO12-101 1/14/2011	JSO12-102 1/14/2011	JSO22 10/3/2002	JSO23 10/3/2002
0 - 1	17	0 - 0.5	17		0.066	-	-	-	-	-	-	-	-	0.24
		0.5 - 1	6.9		-	3.6	3.4	3.3	1.4	2.8	0.12	0.74	-	-
1 - 2	18	1 - 1.5	18		0	-	-	-	-	-	-	-	-	-
		1.5 - 2	16		-	-	-	4.3	-	-	-	-	-	-
2 - 3	14	2 - 2.5	14		-	0.24	4.3	-	1.1	0.074	0.058	0	-	-
		2.5 - 3	0		-	0	-	-	-	-	-	-	-	-
3 - 4	6.5	3 - 3.5	1.2		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	6.5		-	-	-	-	-	0.36	-	-	0	0
4 - 5	6.5	4 - 4.5	6.5		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	6.5		-	-	-	-	-	-	-	-	-	-
5 - 6	1.4	5 - 5.5	0		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	1.4		-	-	-	-	0	0	0.53	1	-	-
6 - 7	2.1	6 - 6.5	2.1		-	-	1.5	-	-	-	-	-	-	-
		6.5 - 7	2.1		-	-	-	-	-	-	-	-	-	-
7 - 8	8	7 - 7.5	3		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	8		0	-	-	-	-	-	-	-	-	-
8 - 9	0.85	8 - 8.5	0.85		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	0		-	-	-	-	-	-	-	-	-	-
9 - 10	4.3	9 - 9.5	0.4		-	-	-	-	-	-	-	-	-	-
		9.5 - 10	4.3		-	-	2.2	-	-	-	-	-	-	-
10 - 11	12	10 - 10.5	0.35		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	12		-	-	-	-	-	-	-	-	-	-
11 - 12	0	11 - 11.5	0.84		0.024	-	-	-	-	-	-	-	-	-
Average Depth to Water			12		12.86	9.99	10.04	9.99	9.94	9.98	9.27	9.93	16.25	17.33

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.iii
SESOIL RESULTS - AOC-08B: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-8-SO-11-100 1/14/2011	SB-8-SO-11-101 1/14/2011	SB-8-SO-11-102 1/14/2011	SB-8-SO-11-103 1/14/2011	SB-8-SO-12-100 1/17/2011	SB-8-SO-12-101 1/17/2011	SB-8-SO-12-102 1/17/2011	SB-8-SO-12-103 1/17/2011	SB-8-SO-14-100 1/17/2011	SB-8-SO-14-101 1/17/2011
0 - 1	17	0 - 0.5	17		-	-	-	-	-	-	-	-	0.05	0.35
		0.5 - 1	6.9		0.74	0.8	0.45	1.4	6.9	5.2	2.8	1.3	-	-
1 - 2	18	1 - 1.5	18		-	-	-	-	-	-	-	-	0.037	0.032
		1.5 - 2	16		-	16	-	-	2.9	1.7	1.8	6	0.037	-
2 - 3	14	2 - 2.5	14		0.33	-	9.7	14	-	-	-	-	0.037	-
		2.5 - 3	0		-	-	-	-	-	-	-	-	-	-
3 - 4	6.5	3 - 3.5	1.2		-	-	1.2	-	-	-	-	-	-	-
		3.5 - 4	6.5		-	-	-	6.5	-	-	-	-	-	-
4 - 5	6.5	4 - 4.5	6.5		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	6.5		-	-	-	-	-	-	-	-	-	-
5 - 6	1.4	5 - 5.5	0		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	1.4		-	-	-	-	-	-	-	-	-	-
6 - 7	2.1	6 - 6.5	2.1		0.19	-	-	-	-	-	-	-	-	-
		6.5 - 7	2.1		-	-	-	-	-	-	-	-	-	-
7 - 8	8	7 - 7.5	3		-	-	-	-	-	-	-	-	1.3	0.22
		7.5 - 8	8		-	-	-	-	2.1	-	-	-	1.3	0.22
8 - 9	0.85	8 - 8.5	0.85		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	0		-	-	-	-	-	-	-	-	-	-
9 - 10	4.3	9 - 9.5	0.4		-	-	-	-	-	-	-	-	-	-
		9.5 - 10	4.3		-	-	-	-	-	-	-	-	-	-
10 - 11	12	10 - 10.5	0.35		-	-	-	-	-	0.35	-	-	0.24	-
		10.5 - 11	12		-	-	-	-	-	-	-	-	-	-
11 - 12	0	11 - 11.5	0.84		-	-	-	-	-	-	-	-	-	0.84
Average Depth to Water			12		9.25	9.27	9.18	9.28	10.03	10.13	9.56	9.61	13.16	12.19

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.iii
SESOIL RESULTS - AOC-08B: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC8B-2013-100 2/25/2013	SB-AOC8B-2013-101 2/25/2013	SB-AOC8B-2013-102 2/25/2013	SB-AOC8B-2013-103 2/25/2013	SB-AOC8B-2013-104 2/25/2013	SB-AOC8B-2013-105 2/25/2013	SB-AOC8B-2013-106 2/25/2013	SB-AOC8B-2013-107 2/25/2013	SB-AOC8B-2013-108 2/25/2013	SB-AOC8B-2013-109 2/25/2013
0 - 1	17	0 - 0.5	17		0.2	0.23	17	3.5	4.2	5.7	1.4	1.3	1	12
		0.5 - 1	6.9		-	-	-	-	-	-	-	-	-	-
1 - 2	18	1 - 1.5	18		0.019	0.11	5	18	18	1.2	5	6.3	0.47	3.3
		1.5 - 2	16		-	-	-	-	-	-	-	-	-	-
2 - 3	14	2 - 2.5	14		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	0		-	-	-	-	-	-	-	-	-	-
3 - 4	6.5	3 - 3.5	1.2		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	6.5		-	-	-	-	-	-	-	-	-	-
4 - 5	6.5	4 - 4.5	6.5		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	6.5		-	-	-	-	-	-	-	-	-	-
5 - 6	1.4	5 - 5.5	0		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	1.4		-	-	-	-	-	-	-	-	-	-
6 - 7	2.1	6 - 6.5	2.1		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	2.1		-	-	-	-	-	-	-	-	-	-
7 - 8	8	7 - 7.5	3		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	8		-	-	-	-	-	-	1.1	8	0.24	-
8 - 9	0.85	8 - 8.5	0.85		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	0		-	-	-	-	-	-	-	-	-	-
9 - 10	4.3	9 - 9.5	0.4		-	-	-	-	-	-	-	-	-	-
		9.5 - 10	4.3		0	0.2	1.1	0	3.2	0	-	-	-	3
10 - 11	12	10 - 10.5	0.35		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	12		-	-	-	-	-	-	-	-	-	-
11 - 12	0	11 - 11.5	0.84		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			12		17.86	12.62	11.45	11.27	10.20	10.66	8.98	8.55	8.54	11.19

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.iv
SESOIL RESULTS - AOC-08B: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-4 7/14/1998	B8-4-101 1/12/2011	B8-4-103 1/17/2011	B8-6-100 1/17/2011	B8-6-101 1/17/2011	B8-6-102 1/17/2011	B8-6-103 1/17/2011	B8-7 7/15/1998	B8-8 7/15/1998	B8-8-1-100 1/19/2011
0 - 1	21	0 - 0.5	21		0.26	-	0.28	-	-	-	-	0.085	0.079	0.13
		0.5 - 1	6.9		-	-	-	0.65	2.6	6.1	2.7	-	-	-
1 - 2	18	1.5 - 2	18		-	-	-	-	-	-	-	-	-	0
		1 - 1.5	15		-	-	0	-	-	-	-	-	-	-
2 - 3	13	2 - 2.5	13		-	-	-	0.46	0.059	1.9	0.39	-	-	-
		2.5 - 3	0		-	-	-	-	-	-	-	-	-	-
3 - 4	2.7	3 - 3.5	1.3		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	2.7		-	-	-	-	-	-	-	-	-	-
4 - 5	2.7	4 - 4.5	2.7		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	2.7		-	-	-	-	-	-	-	-	-	-
5 - 6	2.7	5 - 5.5	2.7		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.62		-	-	-	-	0	-	-	-	-	-
6 - 7	0.49	6 - 6.5	0.49		0.49	-	-	0	-	0.32	0	-	-	-
		6.5 - 7	0.49		0.49	-	-	-	-	-	-	-	-	-
7 - 8	7.4	7 - 7.5	2.7		0.49	-	-	-	-	-	-	-	-	0.31
		7.5 - 8	7.4		0.49	-	-	-	-	-	-	-	-	0.31
8 - 9	0.52	8 - 8.5	0.52		-	0	0.52	-	-	-	-	-	-	-
		8.5 - 9	0		-	-	-	-	-	-	-	-	-	-
9 - 10	2.6	9 - 9.5	0.19		-	-	-	-	-	-	-	0	0.19	-
		9.5 - 10	2.6		-	-	-	0	-	-	-	0	0.19	0.46
10 - 11	6.5	10 - 10.5	0.27		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	6.5		-	-	-	-	-	-	-	-	-	-
11 - 12	0.54	11 - 11.5	0.54		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			12		9.75	9.52	9.01	9.69	9.69	9.80	10.65	12.40	13.15	14.55

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.iv
SESOIL RESULTS - AOC-08B: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-1-101 1/19/2011	B8-8-1-102 1/19/2011	B8-8-1-103 1/19/2011	B8-8-2-100 1/19/2011	B8-8-2-101 1/19/2011	B8-8-2-102 1/19/2011	B8-8-3 1/18/2008	B8-8-4-100 1/17/2011	B8-8-4-101 1/17/2011	B8-8-4-102 1/18/2011
0 - 1	21	0 - 0.5	21		0	0.071	0.058	0.7	0.1	0.24	21	0.063	0	0.055
		0.5 - 1	6.9		-	-	-	-	-	-	-	-	-	-
1 - 2	18	1.5 - 2	18		0	-	-	0	0.14	0	-	0.07	0.056	0.01
		1 - 1.5	15		-	0.03	0.011	-	-	-	-	-	-	-
2 - 3	13	2 - 2.5	13		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	0		-	-	-	-	-	-	-	-	-	-
3 - 4	2.7	3 - 3.5	1.3		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	2.7		-	-	-	-	-	-	-	-	-	-
4 - 5	2.7	4 - 4.5	2.7		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	2.7		-	-	-	-	-	-	-	-	-	-
5 - 6	2.7	5 - 5.5	2.7		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.62		-	-	-	-	-	-	-	0.62	-	-
6 - 7	0.49	6 - 6.5	0.49		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	0.49		-	-	-	-	-	-	-	-	-	-
7 - 8	7.4	7 - 7.5	2.7		0.26	2.7	0.038	0	0	0	-	-	0	-
		7.5 - 8	7.4		0.26	2.7	-	0	0	0	-	-	-	0.024
8 - 9	0.52	8 - 8.5	0.52		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	0		-	-	-	-	-	-	-	-	-	-
9 - 10	2.6	9 - 9.5	0.19		-	-	-	-	-	-	0.11	-	-	-
		9.5 - 10	2.6		-	-	-	1.7	-	0	-	-	-	-
10 - 11	6.5	10 - 10.5	0.27		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	6.5		0.19	0.71	-	-	6.5	-	-	-	-	-
11 - 12	0.54	11 - 11.5	0.54		-	-	-	-	-	-	-	-	-	0.12
Average Depth to Water			12		14.68	14.79	14.42	13.05	13.11	13.02	11.08	14.21	13.46	14.46

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.iv
SESOIL RESULTS - AOC-08B: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-4-103 1/18/2011	JSO11-100 1/14/2011	JSO11-101 1/14/2011	JSO11-102 1/14/2011	JSO11-103 1/14/2011	JSO12-100 1/14/2011	JSO12-101 1/14/2011	JSO12-102 1/14/2011	JSO22 10/3/2002	JSO23 10/3/2002
0 - 1	21	0 - 0.5	21		0.055	-	-	-	-	-	-	-	-	0.25
		0.5 - 1	6.9		-	3.8	3.3	3.3	1.5	2.8	0.14	0.77	-	-
1 - 2	18	1.5 - 2	18		0.0091	-	-	-	-	-	-	-	-	-
		1 - 1.5	15		-	-	-	4.7	-	-	-	-	-	-
2 - 3	13	2 - 2.5	13		-	0.23	4	-	0.38	0.079	0.074	0	-	-
		2.5 - 3	0		-	0	-	-	-	-	-	-	-	-
3 - 4	2.7	3 - 3.5	1.3		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	2.7		-	-	-	-	-	0.19	-	-	0	0
4 - 5	2.7	4 - 4.5	2.7		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	2.7		-	-	-	-	-	-	-	-	-	-
5 - 6	2.7	5 - 5.5	2.7		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.62		-	-	-	-	0	0	0.28	0.38	-	-
6 - 7	0.49	6 - 6.5	0.49		-	-	0	-	-	-	-	-	-	-
		6.5 - 7	0.49		-	-	-	-	-	-	-	-	-	-
7 - 8	7.4	7 - 7.5	2.7		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	7.4		0	-	-	-	-	-	-	-	-	-
8 - 9	0.52	8 - 8.5	0.52		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	0		-	-	-	-	-	-	-	-	-	-
9 - 10	2.6	9 - 9.5	0.19		-	-	-	-	-	-	-	-	-	-
		9.5 - 10	2.6		-	-	0	-	-	-	-	-	-	-
10 - 11	6.5	10 - 10.5	0.27		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	6.5		-	-	-	-	-	-	-	-	-	-
11 - 12	0.54	11 - 11.5	0.54		0.013	-	-	-	-	-	-	-	-	-
Average Depth to Water			12		12.86	9.99	10.04	9.99	9.94	9.98	9.27	9.93	16.25	17.33

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.iv
SESOIL RESULTS - AOC-08B: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-8-SO-11-100 1/14/2011	SB-8-SO-11-101 1/14/2011	SB-8-SO-11-102 1/14/2011	SB-8-SO-11-103 1/14/2011	SB-8-SO-12-100 1/17/2011	SB-8-SO-12-101 1/17/2011	SB-8-SO-12-102 1/17/2011	SB-8-SO-12-103 1/17/2011	SB-8-SO-14-100 1/17/2011	SB-8-SO-14-101 1/17/2011
0 - 1	21	0 - 0.5	21		-	-	-	-	-	-	-	-	0.054	0.35
		0.5 - 1	6.9		0.79	0.9	0.52	1.5	6.9	4.6	2.8	1.4	-	-
1 - 2	18	1.5 - 2	18		-	-	-	-	-	-	-	-	0	0.025
		1 - 1.5	15		-	15	-	-	2.9	1.6	1.7	6	0	-
2 - 3	13	2 - 2.5	13		0.27	-	10	13	-	-	-	-	0	-
		2.5 - 3	0		-	-	-	-	-	-	-	-	-	-
3 - 4	2.7	3 - 3.5	1.3		-	-	1.3	-	-	-	-	-	-	-
		3.5 - 4	2.7		-	-	-	2.7	-	-	-	-	-	-
4 - 5	2.7	4 - 4.5	2.7		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	2.7		-	-	-	-	-	-	-	-	-	-
5 - 6	2.7	5 - 5.5	2.7		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.62		-	-	-	-	-	-	-	-	-	-
6 - 7	0.49	6 - 6.5	0.49		0	-	-	-	-	-	-	-	-	-
		6.5 - 7	0.49		-	-	-	-	-	-	-	-	-	-
7 - 8	7.4	7 - 7.5	2.7		-	-	-	-	-	-	-	-	0.54	0.12
		7.5 - 8	7.4		-	-	-	-	2	-	-	-	0.54	0.12
8 - 9	0.52	8 - 8.5	0.52		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	0		-	-	-	-	-	-	-	-	-	-
9 - 10	2.6	9 - 9.5	0.19		-	-	-	-	-	-	-	-	-	-
		9.5 - 10	2.6		-	-	-	-	-	-	-	-	-	-
10 - 11	6.5	10 - 10.5	0.27		-	-	-	-	-	0.27	-	-	0.14	-
		10.5 - 11	6.5		-	-	-	-	-	-	-	-	-	-
11 - 12	0.54	11 - 11.5	0.54		-	-	-	-	-	-	-	-	-	0.54
Average Depth to Water			12		9.25	9.27	9.18	9.28	10.03	10.13	9.56	9.61	13.16	12.19

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.iv
SESOIL RESULTS - AOC-08B: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC8B-2013-100 2/25/2013	SB-AOC8B-2013-101 2/25/2013	SB-AOC8B-2013-102 2/25/2013	SB-AOC8B-2013-103 2/25/2013	SB-AOC8B-2013-104 2/25/2013	SB-AOC8B-2013-105 2/25/2013	SB-AOC8B-2013-106 2/25/2013	SB-AOC8B-2013-107 2/25/2013	SB-AOC8B-2013-108 2/25/2013	SB-AOC8B-2013-109 2/25/2013
0 - 1	21	0 - 0.5	21		0.2	0.27	17	3.7	4.4	5.3	1.5	1.6	1.1	12
		0.5 - 1	6.9		-	-	-	-	-	-	-	-	-	-
1 - 2	18	1.5 - 2	18		0.014	0.11	4.6	17	18	1.3	5.5	7.1	0.47	3.2
		1 - 1.5	15		-	-	-	-	-	-	-	-	-	-
2 - 3	13	2 - 2.5	13		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	0		-	-	-	-	-	-	-	-	-	-
3 - 4	2.7	3 - 3.5	1.3		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	2.7		-	-	-	-	-	-	-	-	-	-
4 - 5	2.7	4 - 4.5	2.7		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	2.7		-	-	-	-	-	-	-	-	-	-
5 - 6	2.7	5 - 5.5	2.7		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.62		-	-	-	-	-	-	-	-	-	-
6 - 7	0.49	6 - 6.5	0.49		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	0.49		-	-	-	-	-	-	-	-	-	-
7 - 8	7.4	7 - 7.5	2.7		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	7.4		-	-	-	-	-	-	1.2	7.4	0.3	-
8 - 9	0.52	8 - 8.5	0.52		-	-	-	-	-	-	-	-	-	-
		8.5 - 9	0		-	-	-	-	-	-	-	-	-	-
9 - 10	2.6	9 - 9.5	0.19		-	-	-	-	-	-	-	-	-	-
		9.5 - 10	2.6		0	0.21	1.1	0	1.6	0	-	-	-	2.6
10 - 11	6.5	10 - 10.5	0.27		-	-	-	-	-	-	-	-	-	-
		10.5 - 11	6.5		-	-	-	-	-	-	-	-	-	-
11 - 12	0.54	11 - 11.5	0.54		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			12		17.86	12.62	11.45	11.27	10.20	10.66	8.98	8.55	8.54	11.19

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.v
SESOIL RESULTS - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B10-3 7/16/1998	B10-7 7/16/1998	B10-8 7/17/1998	B8-2 7/13/1998	B8-4-100 1/12/2011	B8-4-102 1/12/2011	B9-15 7/20/1998	B9-19 7/17/1998	HSO12 9/24/2002	HSO13 9/24/2002
0 - 1	741	0 - 0.5	741		-	-	19	85	56.6	67.3	240	250	117	398
		0.5 - 1	398		-	-	-	-	-	-	-	-	-	-
1 - 2	2400	1.5 - 2	1210		-	-	0	-	73.9	50.8	-	-	-	-
		1 - 1.5	2400		-	-	-	-	-	-	-	-	-	-
2 - 3	916	2 - 2.5	916		290	-	-	-	-	-	-	-	-	-
		2.5 - 3	420		290	-	-	-	-	-	-	-	-	-
3 - 4	922	3 - 3.5	420		290	-	-	-	-	-	-	-	-	-
		3.5 - 4	922		290	0	-	670	-	-	-	-	-	-
4 - 5	4000	4 - 4.5	1670		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	4000		-	-	-	-	-	-	-	-	-	-
5 - 6	1960	5 - 5.5	1400		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	1960		-	-	-	-	-	-	-	-	-	-
6 - 7	793	6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	712		-	-	-	-	-	-	-	-	-	-
7 - 8	385	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	385		-	-	-	-	-	-	-	-	-	-
8 - 8.5	1810	8 - 8.5	1810		-	-	-	-	1810	1010	-	-	-	-
8.5 - 9	0	8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		10.22	5.66	5.45	9.45	9.11	8.72	8.18	8.10	8.06	7.73

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.v
SESOIL RESULTS - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	HSO14 9/24/2002	MW-75 1/11/2011	SB-10-SO-1 2/16/1994	SB-10-SO-10-100 1/11/2011	SB-10-SO-10-101 1/11/2011	SB-10-SO-10-102 1/11/2011	SB-10-SO-10-103 1/11/2011	SB-10-SO-208 2/6/2014	SB-10-SO-209 2/6/2014	SB-10-SO-210 2/6/2014
0 - 1	741	0 - 0.5	741		65.7	11.7	62	183	369	168	362	-	-	-
		0.5 - 1	398		-	-	62	-	-	-	-	-	-	-
1 - 2	2400	1.5 - 2	1210		-	-	62	-	-	-	-	-	-	-
		1 - 1.5	2400		-	-	62	-	-	-	-	-	-	-
2 - 3	916	2 - 2.5	916		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	420		-	-	-	-	-	-	-	-	-	-
3 - 4	922	3 - 3.5	420		-	-	-	179	235	138	227	-	-	-
		3.5 - 4	922		-	-	-	-	-	-	-	-	-	-
4 - 5	4000	4 - 4.5	1670		-	-	11	-	-	-	-	-	-	-
		4.5 - 5	4000		-	-	11	229	462	249	231	-	-	-
5 - 6	1960	5 - 5.5	1400		-	-	10	-	-	-	-	-	-	-
		5.5 - 6	1960		-	-	10	-	-	410	-	-	-	-
6 - 7	793	6 - 6.5	793		-	-	-	793	-	-	-	-	-	-
		6.5 - 7	712		-	-	-	-	712	-	468	-	-	-
7 - 8	385	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	385		-	-	-	-	-	-	-	-	-	-
8 - 8.5	1810	8 - 8.5	1810		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		7.95	8.98	6.22	7.91	7.87	8.00	7.89	10.11	10.57	10.62

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.v
SESOIL RESULTS - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-2-100 1/8/2011	SB-10-SO-2-101 1/8/2011	SB-10-SO-2-102 1/8/2011	SB-10-SO-2-103 1/8/2011	SB-10-SO-3 2/15/1994	SB-10-SO-4 2/11/1994	SB-10-SO-5-100 1/18/2011	SB-10-SO-5-101 1/10/2011	SB-10-SO-5-102 1/10/2011	SB-10-SO-5-103 1/10/2011
0 - 1	741	0 - 0.5	741		-	-	-	-	150	53	56.3	56.4	723	59.9
		0.5 - 1	398		-	-	-	-	150	8.4	-	-	-	-
1 - 2	2400	1.5 - 2	1210		-	-	-	-	190	8.4	1210	-	-	-
		1 - 1.5	2400		-	-	-	-	190	8.4	-	1440	2400	477
2 - 3	916	2 - 2.5	916		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	420		-	-	-	-	-	-	-	-	-	-
3 - 4	922	3 - 3.5	420		-	-	-	-	26	-	-	-	-	-
		3.5 - 4	922		26.1	265	7.2	152	26	-	-	-	-	-
4 - 5	4000	4 - 4.5	1670		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	4000		-	-	-	-	-	-	333	112	81.9	234
5 - 6	1960	5 - 5.5	1400		-	-	-	-	160	-	-	-	-	-
		5.5 - 6	1960		20.4	14	8.1	9.5	160	-	-	-	-	-
6 - 7	793	6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	712		7.1	7.2	7.1	6	-	-	-	-	-	-
7 - 8	385	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	385		-	-	-	-	-	-	-	-	-	-
8 - 8.5	1810	8 - 8.5	1810		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		7.60	7.59	7.64	7.55	7.90	4.59	6.64	6.60	6.66	6.65

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.v
SESOIL RESULTS - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-5A-100 1/18/2011	SB-10-SO-5A-101 1/18/2011	SB-10-SO-5A-102 1/18/2011	SB-10-SO-7-100 1/19/2011	SB-10-SO-7-101 1/19/2011	SB-10-SO-7-102 1/19/2011	SB-10-SO-7-103 1/19/2011	SB-10-SO-9 2/14/1994	SB-AOC10-2013-100 2/22/2013	SB-AOC10-2013-101 2/22/2013
0 - 1	741	0 - 0.5	741		-	-	-	34.8	35.2	19.3	9.6	12	174	144
		0.5 - 1	398		-	-	-	-	-	-	-	12	-	-
1 - 2	2400	1.5 - 2	1210		-	-	-	-	-	-	-	9.9	-	-
		1 - 1.5	2400		-	-	-	13.5	9.1	14.4	15.8	9.9	-	-
2 - 3	916	2 - 2.5	916		916	504	18	-	-	-	-	420	-	-
		2.5 - 3	420		-	-	-	-	-	-	-	420	-	-
3 - 4	922	3 - 3.5	420		-	-	-	-	-	-	-	420	-	-
		3.5 - 4	922		-	-	-	-	-	-	-	420	-	-
4 - 5	4000	4 - 4.5	1670		-	-	-	-	-	-	-	300	-	-
		4.5 - 5	4000		93.3	10.3	21.1	22.9	17.3	17.2	14.3	300	-	-
5 - 6	1960	5 - 5.5	1400		-	-	-	-	-	-	-	300	237	312
		5.5 - 6	1960		-	-	-	-	-	-	1960	300	-	-
6 - 7	793	6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	712		-	-	-	-	-	477	-	-	-	-
7 - 8	385	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	385		-	-	-	-	-	-	-	-	-	11
8 - 8.5	1810	8 - 8.5	1810		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	68.4		-	-	-	-	68.4	-	-	-	-	-
Average Depth to Water			9		5.79	5.81	5.80	8.89	9.00	8.89	8.83	9.20	7.34	9.30

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.v
SESOIL RESULTS - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-102 2/22/2013	SB-AOC10-2013-103 2/22/2013	SB-AOC10-2013-104 2/22/2013	SB-AOC10-2013-105 2/22/2013	SB-AOC10-2013-106 2/22/2013	SB-AOC10-2013-107 2/22/2013	SB-AOC10-2013-108 2/22/2013	SB-AOC10-2013-109 2/22/2013	SB-AOC10-2013-110 2/22/2013	SB-AOC10-2013-111 2/22/2013
0 - 1	741	0 - 0.5	741		318	26.9	52.3	9.8	24.4	31.1	53.5	10.8	130	151
		0.5 - 1	398		-	-	-	-	-	-	-	-	-	-
1 - 2	2400	1.5 - 2	1210		-	-	-	-	-	-	-	-	-	-
		1 - 1.5	2400		-	-	-	-	-	-	-	-	-	-
2 - 3	916	2 - 2.5	916		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	420		-	-	-	-	-	-	-	-	-	-
3 - 4	922	3 - 3.5	420		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	922		-	-	-	-	-	22.4	49.2	134	-	-
4 - 5	4000	4 - 4.5	1670		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	4000		-	-	-	-	-	-	-	-	42	117
5 - 6	1960	5 - 5.5	1400		3.4	139	21.4	63.6	1400	-	-	-	-	-
		5.5 - 6	1960		-	-	-	-	-	-	-	-	-	-
6 - 7	793	6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	712		-	-	-	-	-	208	239	-	-	-
7 - 8	385	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	385		-	188	-	-	-	-	-	385	-	-
8 - 8.5	1810	8 - 8.5	1810		-	-	-	-	-	-	-	385	-	-
8.5 - 9	0	8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		7.13	9.27	9.43	8.26	8.24	8.30	9.72	9.53	9.20	9.17

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.v
SESOIL RESULTS - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-112 2/22/2013	SB-AOC10-2013-113 2/22/2013	SB-AOC10-2013-114 2/22/2013	SB-AOC10-2013-115 2/21/2013	SB-AOC10-2013-116 2/21/2013	SB-AOC10-2013-117 2/21/2013	SB-AOC10-2013-118 2/21/2013	SB-AOC10-2013-119 2/21/2013	SB-AOC10-2013-120 2/21/2013	SB-AOC10-2013-121 2/21/2013
0 - 1	741	0 - 0.5	741		83.8	13.6	8.6	32	92	84.6	238	147	43.9	624
		0.5 - 1	398		-	-	-	-	-	-	-	-	-	-
1 - 2	2400	1.5 - 2	1210		-	-	-	-	-	-	-	-	-	-
		1 - 1.5	2400		-	-	-	-	-	-	-	-	-	-
2 - 3	916	2 - 2.5	916		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	420		-	-	-	-	-	-	-	-	-	-
3 - 4	922	3 - 3.5	420		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	922		-	-	-	-	-	-	-	-	-	43.2
4 - 5	4000	4 - 4.5	1670		-	-	-	-	-	378	484	1670	27.7	-
		4.5 - 5	4000		13	309	23.4	4000	299	-	-	-	-	-
5 - 6	1960	5 - 5.5	1400		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	1960		-	-	-	-	-	-	-	-	-	-
6 - 7	793	6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	712		-	-	-	-	-	-	-	-	-	8.9
7 - 8	385	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	385		-	-	-	-	-	10.7	-	-	-	-
8 - 8.5	1810	8 - 8.5	1810		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		9.23	8.30	8.94	7.92	8.64	8.04	6.64	7.30	5.75	7.18

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.v
SESOIL RESULTS - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-122 2/21/2013	SB-AOC10-2013-123 2/21/2013	SB-AOC10-2013-124 2/21/2013	SB-AOC10-2013-125 2/21/2013	SB-AOC10-2013-126 2/21/2013	SB-AOC10-2013-127 2/21/2013	SB-AOC10-2013-128 2/21/2013	SB-AOC10-2013-129 2/21/2013	WSO12 7/17/2003	WSO13 7/17/2003
0 - 1	741	0 - 0.5	741		741	73.2	-	115	577	319	175	11.9	326	153
		0.5 - 1	398		-	-	398	-	-	-	-	-	-	-
1 - 2	2400	1.5 - 2	1210		-	-	398	-	-	-	-	-	-	-
		1 - 1.5	2400		-	-	398	-	-	-	-	-	-	-
2 - 3	916	2 - 2.5	916		-	-	398	-	-	-	-	-	-	-
		2.5 - 3	420		-	-	398	-	-	-	-	-	-	-
3 - 4	922	3 - 3.5	420		-	-	398	-	-	-	-	-	-	-
		3.5 - 4	922		9.3	32.2	398	36.6	52.1	922	620	313	-	-
4 - 5	4000	4 - 4.5	1670		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	4000		-	-	-	-	-	-	-	-	-	-
5 - 6	1960	5 - 5.5	1400		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	1960		-	-	-	-	-	-	-	-	-	-
6 - 7	793	6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	712		27.2	13.9	9.3	12.1	5.2	6.9	6.4	4.3	-	-
7 - 8	385	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	385		-	-	-	-	-	-	-	-	-	-
8 - 8.5	1810	8 - 8.5	1810		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		6.74	6.62	7.29	7.98	9.18	8.46	7.29	6.71	9.33	7.57

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.v
SESOIL RESULTS - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	WSO14 7/17/2003	WSO15 7/17/2003	WSO6 10/11/2002	WSO7 10/11/2002	WSO9 10/11/2002
0 - 1	741	0 - 0.5	741		94.8	32.4	16.1	-	-
		0.5 - 1	398		-	-	-	-	9.1
1 - 2	2400	1.5 - 2	1210		-	-	-	-	-
		1 - 1.5	2400		-	-	-	46.4	-
2 - 3	916	2 - 2.5	916		-	-	-	-	-
		2.5 - 3	420		-	-	-	-	-
3 - 4	922	3 - 3.5	420		-	-	-	-	-
		3.5 - 4	922		-	-	-	-	-
4 - 5	4000	4 - 4.5	1670		-	-	-	-	-
		4.5 - 5	4000		-	8.6	-	-	-
5 - 6	1960	5 - 5.5	1400		-	-	-	-	-
		5.5 - 6	1960		-	-	-	-	-
6 - 7	793	6 - 6.5	793		-	-	-	-	-
		6.5 - 7	712		-	-	-	-	-
7 - 8	385	7 - 7.5	0		-	-	-	-	-
		7.5 - 8	385		-	-	-	-	-
8 - 8.5	1810	8 - 8.5	1810		-	-	-	-	-
8.5 - 9	0	8.5 - 9	68.4		-	-	-	-	-
Average Depth to Water			9		5.17	5.77	5.28	9.45	6.34

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vi
SESOIL RESULTS - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B10-3 7/16/1998	B10-7 7/16/1998	B10-8 7/17/1998	B8-2 7/13/1998	B8-3-100 1/9/2011	B8-3-101 1/9/2011	B8-3-102 1/9/2011	B8-3-103 1/9/2011	B8-4-100 1/12/2011	B8-4-102 1/12/2011
0 - 1	14	0 - 0.5	14		-	-	0	0.31	0	0	0	0	1.1	2.2
		0.5 - 1	0.54		-	-	-	-	-	-	-	-	-	-
1 - 2	6.4	1.5 - 2	6.4		-	-	-	-	-	-	-	-	-	-
		1 - 1.5	1.8		-	-	0	-	-	-	-	-	1.8	1.3
2 - 3	1.4	2 - 2.5	1.4		0.41	-	-	-	-	-	-	-	-	-
		2.5 - 3	1.4		0.41	-	-	-	0.11	0.62	1.4	0.21	-	-
3 - 4	1.4	3 - 3.5	1.4		0.41	-	-	-	-	-	-	-	-	-
		3.5 - 4	1.4		0.41	0	-	1.3	-	-	-	-	-	-
4 - 5	5.9	4 - 4.5	4.9		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	5.9		-	-	-	-	-	-	-	-	-	-
5 - 6	1.6	5 - 5.5	1.6		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.93		-	-	-	-	-	-	-	-	-	-
6 - 7	17	6 - 6.5	0		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	17		-	-	-	-	-	-	-	-	-	-
7 - 8	2.8	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	2.8		-	-	-	-	-	-	-	-	-	-
8 - 8.5	2.5	8 - 8.5	2.5		-	-	-	-	-	-	-	-	2.5	0
8.5 - 9	0	8.5 - 9	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		10.22	5.66	5.45	9.45	8.62	8.57	8.72	8.63	9.11	8.72

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vi
SESOIL RESULTS - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B9-19 7/17/1998	HSO12 9/24/2002	HSO13 9/24/2002	HSO14 9/24/2002	MW-62 11/11/2010	MW-63 11/11/2010	MW-64 11/12/2010	MW-75 1/11/2011	SB-10-SO-1 2/16/1994	SB-10-SO-10-100 1/11/2011
0 - 1	14	0 - 0.5	14		0.4	0.63	0.096	0.2	0.39	0.37	0.69	0	0.54	0.18
		0.5 - 1	0.54		-	-	-	-	-	-	-	-	0.54	-
1 - 2	6.4	1.5 - 2	6.4		-	-	-	-	-	-	-	-	0.54	-
		1 - 1.5	1.8		-	-	-	-	-	-	-	-	0.54	-
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	0.1	0.054	-	-	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	-	-	-	-	-	-	-	0.33
		3.5 - 4	1.4		-	-	-	-	-	-	-	-	-	-
4 - 5	5.9	4 - 4.5	4.9		-	-	-	-	-	-	-	-	0	-
		4.5 - 5	5.9		-	-	-	-	-	-	-	-	0	0.11
5 - 6	1.6	5 - 5.5	1.6		-	-	-	-	0	-	-	-	0	-
		5.5 - 6	0.93		-	-	-	-	-	-	-	-	0	-
6 - 7	17	6 - 6.5	0		-	-	-	-	-	-	-	-	-	0
		6.5 - 7	17		-	-	-	-	-	-	-	-	-	-
7 - 8	2.8	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	2.8		-	-	-	-	-	-	-	-	-	-
8 - 8.5	2.5	8 - 8.5	2.5		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		8.10	8.06	7.73	7.95	8.15	6.70	8.59	8.98	6.22	7.91

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vi
SESOIL RESULTS - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-10-101 1/11/2011	SB-10-SO-10-102 1/11/2011	SB-10-SO-10-103 1/11/2011	SB-10-SO-11-100 1/11/2011	SB-10-SO-11-101 1/11/2011	SB-10-SO-11-102 1/11/2011	SB-10-SO-11-103 1/11/2011	SB-10-SO-205 12/13/2013	SB-10-SO-206 12/13/2013	SB-10-SO-208 2/6/2014
0 - 1	14	0 - 0.5	14		0.089	0	0	0.08	0.31	0.22	0.42	-	-	-
		0.5 - 1	0.54		-	-	-	-	-	-	-	-	-	-
1 - 2	6.4	1.5 - 2	6.4		-	-	-	0.43	0.29	0.6	0.73	-	-	-
		1 - 1.5	1.8		-	-	-	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		0	0	0	-	-	-	-	-	-	-
		3.5 - 4	1.4		-	-	-	-	-	-	-	-	-	-
4 - 5	5.9	4 - 4.5	4.9		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	5.9		0	0	0.25	0	0.72	0.28	0.59	-	-	-
5 - 6	1.6	5 - 5.5	1.6		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.93		-	0	-	0.11	0.58	0.16	0.93	-	-	-
6 - 7	17	6 - 6.5	0		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	17		0.26	-	0.39	-	-	-	-	17	6	-
7 - 8	2.8	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	2.8		-	-	-	-	-	-	-	-	-	-
8 - 8.5	2.5	8 - 8.5	2.5		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		7.87	8.00	7.89	5.86	5.84	5.94	5.77	8.73	8.64	10.11

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vi
SESOIL RESULTS - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-209 2/6/2014	SB-10-SO-210 2/6/2014	SB-10-SO-2-100 1/8/2011	SB-10-SO-2-101 1/8/2011	SB-10-SO-2-102 1/8/2011	SB-10-SO-2-103 1/8/2011	SB-10-SO-215 12/13/2013	SB-10-SO-216 12/13/2013	SB-10-SO-217 12/13/2013	SB-10-SO-3 2/15/1994
0 - 1	14	0 - 0.5	14		-	-	-	-	-	-	-	-	-	0.53
		0.5 - 1	0.54		-	-	-	-	-	-	-	-	-	0.53
1 - 2	6.4	1.5 - 2	6.4		-	-	-	-	-	-	0.054	0.12	1.7	0.34
		1 - 1.5	1.8		-	-	-	-	-	-	0.035	-	-	0.34
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	-	-	-	0.095	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	-	-	-	-	-	-	-	0
		3.5 - 4	1.4		-	-	0.47	0	0.018	0.079	-	-	-	0
4 - 5	5.9	4 - 4.5	4.9		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	5.9		-	-	-	-	-	-	-	-	-	-
5 - 6	1.6	5 - 5.5	1.6		-	-	-	-	-	-	-	-	-	0
		5.5 - 6	0.93		-	-	0	0	0	0	-	-	-	0
6 - 7	17	6 - 6.5	0		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	17		-	-	0	0	0	0	-	-	-	-
7 - 8	2.8	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	2.8		-	-	-	-	-	-	-	-	-	-
8 - 8.5	2.5	8 - 8.5	2.5		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		10.57	10.62	7.60	7.59	7.64	7.55	18.98	20.16	20.37	7.90

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vi
SESOIL RESULTS - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-4 2/11/1994	SB-10-SO-5-100 1/18/2011	SB-10-SO-5-101 1/10/2011	SB-10-SO-5-102 1/10/2011	SB-10-SO-5-103 1/10/2011	SB-10-SO-5A-100 1/18/2011	SB-10-SO-5A-101 1/18/2011	SB-10-SO-5A-102 1/18/2011	SB-10-SO-7-100 1/19/2011	SB-10-SO-7-101 1/19/2011
0 - 1	14	0 - 0.5	14		0.13	0.061	0.11	0.27	0.12	-	-	-	0.37	0.38
		0.5 - 1	0.54		0	-	-	-	-	-	-	-	-	-
1 - 2	6.4	1.5 - 2	6.4		0	-	6.1	0	0	-	-	-	6.4	0
		1 - 1.5	1.8		0	0.52	-	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	0.25	0.073	0.1	-	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	1.4		-	-	-	-	-	-	-	-	-	-
4 - 5	5.9	4 - 4.5	4.9		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	5.9		-	0.072	0.21	0.15	0.32	0.49	0.081	0.36	0	0
5 - 6	1.6	5 - 5.5	1.6		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.93		-	-	-	-	-	-	-	-	-	-
6 - 7	17	6 - 6.5	0		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	17		-	-	-	-	-	-	-	-	-	-
7 - 8	2.8	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	2.8		-	-	-	-	-	-	-	-	-	-
8 - 8.5	2.5	8 - 8.5	2.5		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.057		-	-	-	-	-	-	-	-	-	0.057
Average Depth to Water			9		4.59	6.64	6.60	6.66	6.65	5.79	5.81	5.80	8.89	9.00

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vi
SESOIL RESULTS - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-7-102 1/19/2011	SB-10-SO-7-103 1/19/2011	SB-10-SO-9 2/14/1994	SB-10-SO-9-100 1/20/2011	SB-10-SO-9-101 1/20/2011	SB-10-SO-9-102 1/20/2011	SB-10-SO-9-103 1/20/2011	SB-AOC10-2013-100 2/22/2013	SB-AOC10-2013-101 2/22/2013	SB-AOC10-2013-102 2/22/2013
0 - 1	14	0 - 0.5	14		0.18	0.045	0	0	0	0	0	0.7	0.34	2.1
		0.5 - 1	0.54		-	-	0	-	-	-	-	-	-	-
1 - 2	6.4	1.5 - 2	6.4		0	0	0	-	-	-	-	-	-	-
		1 - 1.5	1.8		-	-	0	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	-	1.4	0	0	0	0	-	-	-
		2.5 - 3	1.4		-	-	1.4	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	1.4	-	-	-	-	-	-	-
		3.5 - 4	1.4		-	-	1.4	-	-	-	-	-	-	-
4 - 5	5.9	4 - 4.5	4.9		-	-	0.23	0	0	0	0	-	-	-
		4.5 - 5	5.9		0.19	0.078	0.23	-	-	-	-	-	-	-
5 - 6	1.6	5 - 5.5	1.6		-	-	0.23	-	-	-	-	1.6	0.19	0
		5.5 - 6	0.93		-	0.32	0.23	-	-	-	-	-	-	-
6 - 7	17	6 - 6.5	0		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	17		0.39	-	-	-	-	-	-	-	-	-
7 - 8	2.8	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	2.8		-	-	-	-	-	-	-	-	0	-
8 - 8.5	2.5	8 - 8.5	2.5		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		8.89	8.83	9.20	9.64	9.49	9.63	9.71	7.34	9.30	7.13

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vi
SESOIL RESULTS - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-103 2/22/2013	SB-AOC10-2013-104 2/22/2013	SB-AOC10-2013-105 2/22/2013	SB-AOC10-2013-106 2/22/2013	SB-AOC10-2013-107 2/22/2013	SB-AOC10-2013-108 2/22/2013	SB-AOC10-2013-109 2/22/2013	SB-AOC10-2013-110 2/22/2013	SB-AOC10-2013-111 2/22/2013	SB-AOC10-2013-112 2/22/2013
0 - 1	14	0 - 0.5	14		0.22	0.18	0.036	0.1	0.54	2.3	0	6.1	1.2	0
		0.5 - 1	0.54		-	-	-	-	-	-	-	-	-	-
1 - 2	6.4	1.5 - 2	6.4		-	-	-	-	-	-	-	-	-	-
		1 - 1.5	1.8		-	-	-	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	1.4		-	-	-	-	0.04	0.5	0.15	-	-	-
4 - 5	5.9	4 - 4.5	4.9		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	5.9		-	-	-	-	-	-	-	-	-	-
5 - 6	1.6	5 - 5.5	1.6		0.051	0.047	0	0.46	-	-	-	4	0.62	0.066
		5.5 - 6	0.93		-	-	-	-	-	-	-	-	-	-
6 - 7	17	6 - 6.5	0		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	17		-	-	-	-	0.12	7.7	-	-	-	-
7 - 8	2.8	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	2.8		2.8	-	-	-	-	-	1.2	-	-	-
8 - 8.5	2.5	8 - 8.5	2.5		-	-	-	-	-	-	1.2	-	-	-
8.5 - 9	0	8.5 - 9	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		9.27	9.43	8.26	8.24	8.30	9.72	9.53	9.20	9.17	9.23

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vi
SESOIL RESULTS - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-113 2/22/2013	SB-AOC10-2013-114 2/22/2013	SB-AOC10-2013-115 2/21/2013	SB-AOC10-2013-116 2/21/2013	SB-AOC10-2013-117 2/21/2013	SB-AOC10-2013-118 2/21/2013	SB-AOC10-2013-119 2/21/2013	SB-AOC10-2013-120 2/21/2013	SB-AOC10-2013-121 2/21/2013	SB-AOC10-2013-122 2/21/2013
0 - 1	14	0 - 0.5	14		0.08	0.025	0.69	14	1.7	0.43	0.36	0.65	0.13	0.37
		0.5 - 1	0.54		-	-	-	-	-	-	-	-	-	-
1 - 2	6.4	1.5 - 2	6.4		-	-	-	-	-	-	-	-	-	-
		1 - 1.5	1.8		-	-	-	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	1.4		-	-	-	-	-	-	-	-	0.23	0
4 - 5	5.9	4 - 4.5	4.9		-	-	-	-	4.9	0.38	0.3	0.58	-	-
		4.5 - 5	5.9		0.85	0	5.9	1	-	-	-	-	-	-
5 - 6	1.6	5 - 5.5	1.6		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.93		-	-	-	-	-	-	-	-	-	-
6 - 7	17	6 - 6.5	0		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	17		-	-	-	-	-	-	-	-	0	0.52
7 - 8	2.8	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	2.8		-	-	-	-	0	-	-	-	-	-
8 - 8.5	2.5	8 - 8.5	2.5		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		8.30	8.94	7.92	8.64	8.04	6.64	7.30	5.75	7.18	6.74

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vi
SESOIL RESULTS - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-123 2/21/2013	SB-AOC10-2013-124 2/21/2013	SB-AOC10-2013-125 2/21/2013	SB-AOC10-2013-126 2/21/2013	SB-AOC10-2013-127 2/21/2013	SB-AOC10-2013-128 2/21/2013	SB-AOC10-2013-129 2/21/2013	WSO2 10/2/2002	WSO6 10/11/2002	WSO7 10/11/2002
0 - 1	14	0 - 0.5	14		0.29	-	0.19	1.4	0.72	0.27	0.041	0.1	0.26	-
		0.5 - 1	0.54		-	0.36	-	-	-	-	-	-	-	-
1 - 2	6.4	1.5 - 2	6.4		-	0.36	-	-	-	-	-	-	-	0.18
		1 - 1.5	1.8		-	0.36	-	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	0.36	-	-	-	-	-	-	-	-
		2.5 - 3	1.4		-	0.36	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	0.36	-	-	-	-	-	-	-	-
		3.5 - 4	1.4		0.85	0.81	0	0.024	0.2	0.056	0.26	-	-	-
4 - 5	5.9	4 - 4.5	4.9		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	5.9		-	-	-	-	-	-	-	-	-	-
5 - 6	1.6	5 - 5.5	1.6		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.93		-	-	-	-	-	-	-	-	-	-
6 - 7	17	6 - 6.5	0		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	17		0	0	0	0	0	0	0	-	-	-
7 - 8	2.8	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	2.8		-	-	-	-	-	-	-	-	-	-
8 - 8.5	2.5	8 - 8.5	2.5		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		6.62	7.29	7.98	9.18	8.46	7.29	6.71	4.78	5.28	9.45

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vi
SESOIL RESULTS - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	WSO9 10/11/2002
0 - 1	14	0 - 0.5	14		-
		0.5 - 1	0.54		0
1 - 2	6.4	1.5 - 2	6.4		-
		1 - 1.5	1.8		-
2 - 3	1.4	2 - 2.5	1.4		-
		2.5 - 3	1.4		-
3 - 4	1.4	3 - 3.5	1.4		-
		3.5 - 4	1.4		-
4 - 5	5.9	4 - 4.5	4.9		-
		4.5 - 5	5.9		-
5 - 6	1.6	5 - 5.5	1.6		-
		5.5 - 6	0.93		-
6 - 7	17	6 - 6.5	0		-
		6.5 - 7	17		-
7 - 8	2.8	7 - 7.5	0		-
		7.5 - 8	2.8		-
8 - 8.5	2.5	8 - 8.5	2.5		-
8.5 - 9	0	8.5 - 9	0.057		-
Average Depth to Water			9		6.34

- Notes:**
1. **Red** indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vii
SESOIL RESULTS - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B10-3 7/16/1998	B10-7 7/16/1998	B10-8 7/17/1998	B8-2 7/13/1998	B8-3-100 1/9/2011	B8-3-101 1/9/2011	B8-3-102 1/9/2011	B8-3-103 1/9/2011	B8-4-100 1/12/2011	B8-4-102 1/12/2011
0 - 1	12	0 - 0.5	12		-	-	0	0.094	0	0	0	0	1.1	2.3
		0.5 - 1	0.44		-	-	-	-	-	-	-	-	-	-
1 - 2	6.1	1.5 - 2	6.1		-	-	-	-	-	-	-	-	-	-
		1 - 1.5	1.7		-	-	0	-	-	-	-	-	1.7	1.2
2 - 3	1.4	2 - 2.5	1.4		0.3	-	-	-	-	-	-	-	-	-
		2.5 - 3	1.4		0.3	-	-	-	0.11	0.71	0.91	0.17	-	-
3 - 4	1.4	3 - 3.5	1.4		0.3	-	-	-	-	-	-	-	-	-
		3.5 - 4	1.4		0.3	0	-	0.24	-	-	-	-	-	-
4 - 5	4.4	4 - 4.5	4.4		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	3.6		-	-	-	-	-	-	-	-	-	-
5 - 6	1.1	5 - 5.5	1.1		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.85		-	-	-	-	-	-	-	-	-	-
6 - 7	16	6 - 6.5	0.081		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	16		-	-	-	-	-	-	-	-	-	-
7 - 8	3	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	3		-	-	-	-	-	-	-	-	-	-
8 - 8.5	1.8	8 - 8.5	1.8		-	-	-	-	-	-	-	-	1.8	0
8.5 - 9	0	8.5 - 9	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		10.22	5.66	5.45	9.45	8.62	8.57	8.72	8.63	9.11	8.72

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vii
SESOIL RESULTS - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B9-19 7/17/1998	HSO12 9/24/2002	HSO13 9/24/2002	HSO14 9/24/2002	MW-62 11/11/2010	MW-63 11/11/2010	MW-64 11/12/2010	MW-75 1/11/2011	SB-10-SO-1 2/16/1994	SB-10-SO-10-100 1/11/2011
0 - 1	12	0 - 0.5	12		0.27	0.39	0.12	0.17	0.47	0.42	0.78	0	0.44	0.15
		0.5 - 1	0.44		-	-	-	-	-	-	-	-	0.44	-
1 - 2	6.1	1.5 - 2	6.1		-	-	-	-	-	-	-	-	0.44	-
		1 - 1.5	1.7		-	-	-	-	-	-	-	-	0.44	-
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	0.093	0.046	-	-	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	-	-	-	-	-	-	-	0.26
		3.5 - 4	1.4		-	-	-	-	-	-	-	-	-	-
4 - 5	4.4	4 - 4.5	4.4		-	-	-	-	-	-	-	-	0	-
		4.5 - 5	3.6		-	-	-	-	-	-	-	-	0	0.11
5 - 6	1.1	5 - 5.5	1.1		-	-	-	-	0	-	-	-	0	-
		5.5 - 6	0.85		-	-	-	-	-	-	-	-	0	-
6 - 7	16	6 - 6.5	0.081		-	-	-	-	-	-	-	-	-	0.081
		6.5 - 7	16		-	-	-	-	-	-	-	-	-	-
7 - 8	3	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	3		-	-	-	-	-	-	-	-	-	-
8 - 8.5	1.8	8 - 8.5	1.8		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		8.10	8.06	7.73	7.95	8.15	6.70	8.59	8.98	6.22	7.91

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vii
SESOIL RESULTS - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-10-101 1/11/2011	SB-10-SO-10-102 1/11/2011	SB-10-SO-10-103 1/11/2011	SB-10-SO-11-100 1/11/2011	SB-10-SO-11-101 1/11/2011	SB-10-SO-11-102 1/11/2011	SB-10-SO-11-103 1/11/2011	SB-10-SO-205 12/13/2013	SB-10-SO-206 12/13/2013	SB-10-SO-208 2/6/2014
0 - 1	12	0 - 0.5	12		0	0	0.074	0.073	0.33	0.23	0.38	-	-	-
		0.5 - 1	0.44		-	-	-	-	-	-	-	-	-	-
1 - 2	6.1	1.5 - 2	6.1		-	-	-	0.34	0.28	0.85	0.72	-	-	-
		1 - 1.5	1.7		-	-	-	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		0.066	0	0.059	-	-	-	-	-	-	-
		3.5 - 4	1.4		-	-	-	-	-	-	-	-	-	-
4 - 5	4.4	4 - 4.5	4.4		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	3.6		0.07	0.1	0.14	0	0.7	0.31	0.61	-	-	-
5 - 6	1.1	5 - 5.5	1.1		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.85		-	0	-	0.11	0.5	0	0.85	-	-	-
6 - 7	16	6 - 6.5	0.081		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	16		0.13	-	0.25	-	-	-	-	16	4.6	-
7 - 8	3	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	3		-	-	-	-	-	-	-	-	-	-
8 - 8.5	1.8	8 - 8.5	1.8		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		7.87	8.00	7.89	5.86	5.84	5.94	5.77	8.73	8.64	10.11

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vii
SESOIL RESULTS - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-209 2/6/2014	SB-10-SO-210 2/6/2014	SB-10-SO-2-100 1/8/2011	SB-10-SO-2-101 1/8/2011	SB-10-SO-2-102 1/8/2011	SB-10-SO-2-103 1/8/2011	SB-10-SO-215 12/13/2013	SB-10-SO-216 12/13/2013	SB-10-SO-217 12/13/2013	SB-10-SO-3 2/15/1994
0 - 1	12	0 - 0.5	12		-	-	-	-	-	-	-	-	-	0.41
		0.5 - 1	0.44		-	-	-	-	-	-	-	-	-	0.41
1 - 2	6.1	1.5 - 2	6.1		-	-	-	-	-	-	0.059	0.25	3.9	0.26
		1 - 1.5	1.7		-	-	-	-	-	-	0.055	-	-	0.26
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	-	-	-	0.2	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	-	-	-	-	-	-	-	0
		3.5 - 4	1.4		-	-	0.4	0	0.011	0.076	-	-	-	0
4 - 5	4.4	4 - 4.5	4.4		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	3.6		-	-	-	-	-	-	-	-	-	-
5 - 6	1.1	5 - 5.5	1.1		-	-	-	-	-	-	-	-	-	0
		5.5 - 6	0.85		-	-	0	0	0	0	-	-	-	0
6 - 7	16	6 - 6.5	0.081		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	16		-	-	0	0	0	0	-	-	-	-
7 - 8	3	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	3		-	-	-	-	-	-	-	-	-	-
8 - 8.5	1.8	8 - 8.5	1.8		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		10.57	10.62	7.60	7.59	7.64	7.55	18.98	20.16	20.37	7.90

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vii
SESOIL RESULTS - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-4 2/11/1994	SB-10-SO-5-100 1/18/2011	SB-10-SO-5-101 1/10/2011	SB-10-SO-5-102 1/10/2011	SB-10-SO-5-103 1/10/2011	SB-10-SO-5A-100 1/18/2011	SB-10-SO-5A-101 1/18/2011	SB-10-SO-5A-102 1/18/2011	SB-10-SO-7-100 1/19/2011	SB-10-SO-7-101 1/19/2011
0 - 1	12	0 - 0.5	12		0.13	0.047	0.12	0.21	0.13	-	-	-	0.4	0.37
		0.5 - 1	0.44		0	-	-	-	-	-	-	-	-	-
1 - 2	6.1	1.5 - 2	6.1		0	-	4.2	0	0.064	-	-	-	6.1	0
		1 - 1.5	1.7		0	0.49	-	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	0.19	0.063	0.081	-	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	1.4		-	-	-	-	-	-	-	-	-	-
4 - 5	4.4	4 - 4.5	4.4		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	3.6		-	0.056	0.19	0.16	0.29	0.47	0.074	0.3	0	0
5 - 6	1.1	5 - 5.5	1.1		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.85		-	-	-	-	-	-	-	-	-	-
6 - 7	16	6 - 6.5	0.081		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	16		-	-	-	-	-	-	-	-	-	-
7 - 8	3	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	3		-	-	-	-	-	-	-	-	-	-
8 - 8.5	1.8	8 - 8.5	1.8		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.049		-	-	-	-	-	-	-	-	-	0.049
Average Depth to Water			9		4.59	6.64	6.60	6.66	6.65	5.79	5.81	5.80	8.89	9.00

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vii
SESOIL RESULTS - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-7-102 1/19/2011	SB-10-SO-7-103 1/19/2011	SB-10-SO-9 2/14/1994	SB-10-SO-9-100 1/20/2011	SB-10-SO-9-101 1/20/2011	SB-10-SO-9-102 1/20/2011	SB-10-SO-9-103 1/20/2011	SB-AOC10-2013-100 2/22/2013	SB-AOC10-2013-101 2/22/2013	SB-AOC10-2013-102 2/22/2013
0 - 1	12	0 - 0.5	12		0.19	0.038	0	0	0	0	0	0.73	0.41	1.7
		0.5 - 1	0.44		-	-	0	-	-	-	-	-	-	-
1 - 2	6.1	1.5 - 2	6.1		0	0	0	-	-	-	-	-	-	-
		1 - 1.5	1.7		-	-	0	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	-	1.4	0	0	0	0	-	-	-
		2.5 - 3	1.4		-	-	1.4	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	1.4	-	-	-	-	-	-	-
		3.5 - 4	1.4		-	-	1.4	-	-	-	-	-	-	-
4 - 5	4.4	4 - 4.5	4.4		-	-	0.27	0	0	0	0	-	-	-
		4.5 - 5	3.6		0.21	0.078	0.27	-	-	-	-	-	-	-
5 - 6	1.1	5 - 5.5	1.1		-	-	0.27	-	-	-	-	1.1	0.22	0
		5.5 - 6	0.85		-	0.31	0.27	-	-	-	-	-	-	-
6 - 7	16	6 - 6.5	0.081		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	16		0.34	-	-	-	-	-	-	-	-	-
7 - 8	3	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	3		-	-	-	-	-	-	-	-	0	-
8 - 8.5	1.8	8 - 8.5	1.8		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		8.89	8.83	9.20	9.64	9.49	9.63	9.71	7.34	9.30	7.13

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vii
SESOIL RESULTS - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-103 2/22/2013	SB-AOC10-2013-104 2/22/2013	SB-AOC10-2013-105 2/22/2013	SB-AOC10-2013-106 2/22/2013	SB-AOC10-2013-107 2/22/2013	SB-AOC10-2013-108 2/22/2013	SB-AOC10-2013-109 2/22/2013	SB-AOC10-2013-110 2/22/2013	SB-AOC10-2013-111 2/22/2013	SB-AOC10-2013-112 2/22/2013
0 - 1	12	0 - 0.5	12		0.16	0.17	0.033	0.13	0.67	2.2	0.042	6.1	1.2	0.0091
		0.5 - 1	0.44		-	-	-	-	-	-	-	-	-	-
1 - 2	6.1	1.5 - 2	6.1		-	-	-	-	-	-	-	-	-	-
		1 - 1.5	1.7		-	-	-	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	1.4		-	-	-	-	0.036	0.46	0.11	-	-	-
4 - 5	4.4	4 - 4.5	4.4		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	3.6		-	-	-	-	-	-	-	3.6	0.61	0
5 - 6	1.1	5 - 5.5	1.1		0.048	0.041	0	0.35	-	-	-	-	-	-
		5.5 - 6	0.85		-	-	-	-	-	-	-	-	-	-
6 - 7	16	6 - 6.5	0.081		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	16		-	-	-	-	0.15	6.2	-	-	-	-
7 - 8	3	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	3		3	-	-	-	-	-	0	-	-	-
8 - 8.5	1.8	8 - 8.5	1.8		-	-	-	-	-	-	0	-	-	-
8.5 - 9	0	8.5 - 9	0.049		-	-	-	-	-	-	0	-	-	-
Average Depth to Water			9		9.27	9.43	8.26	8.24	8.30	9.72	9.53	9.20	9.17	9.23

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vii
SESOIL RESULTS - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-113 2/22/2013	SB-AOC10-2013-114 2/22/2013	SB-AOC10-2013-115 2/21/2013	SB-AOC10-2013-116 2/21/2013	SB-AOC10-2013-117 2/21/2013	SB-AOC10-2013-118 2/21/2013	SB-AOC10-2013-119 2/21/2013	SB-AOC10-2013-120 2/21/2013	SB-AOC10-2013-121 2/21/2013	SB-AOC10-2013-122 2/21/2013
0 - 1	12	0 - 0.5	12		0.08	0.026	0.78	12	1.3	0.43	0.38	0.69	0.098	0.31
		0.5 - 1	0.44		-	-	-	-	-	-	-	-	-	-
1 - 2	6.1	1.5 - 2	6.1		-	-	-	-	-	-	-	-	-	-
		1 - 1.5	1.7		-	-	-	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	-	-	-	-	-	-	-	-	-
		2.5 - 3	1.4		-	-	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	-	-	-	-	-	-	-	-	-
		3.5 - 4	1.4		-	-	-	-	-	-	-	-	0.22	0
4 - 5	4.4	4 - 4.5	4.4		-	-	-	-	4.4	0.36	0	0.49	-	-
		4.5 - 5	3.6		0.99	0	2.8	0.85	-	-	-	-	-	-
5 - 6	1.1	5 - 5.5	1.1		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.85		-	-	-	-	-	-	-	-	-	-
6 - 7	16	6 - 6.5	0.081		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	16		-	-	-	-	-	-	-	-	0	0.58
7 - 8	3	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	3		-	-	-	-	0	-	-	-	-	-
8 - 8.5	1.8	8 - 8.5	1.8		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		8.30	8.94	7.92	8.64	8.04	6.64	7.30	5.75	7.18	6.74

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vii
SESOIL RESULTS - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-123 2/21/2013	SB-AOC10-2013-124 2/21/2013	SB-AOC10-2013-125 2/21/2013	SB-AOC10-2013-126 2/21/2013	SB-AOC10-2013-127 2/21/2013	SB-AOC10-2013-128 2/21/2013	SB-AOC10-2013-129 2/21/2013	WSO2 10/2/2002	WSO6 10/11/2002	WSO7 10/11/2002
0 - 1	12	0 - 0.5	12		0.31	-	0.24	1.4	0.67	0.23	0.035	0.1	0.27	-
		0.5 - 1	0.44		-	0.4	-	-	-	-	-	-	-	-
1 - 2	6.1	1.5 - 2	6.1		-	0.4	-	-	-	-	-	-	-	0.19
		1 - 1.5	1.7		-	0.4	-	-	-	-	-	-	-	-
2 - 3	1.4	2 - 2.5	1.4		-	0.4	-	-	-	-	-	-	-	-
		2.5 - 3	1.4		-	0.4	-	-	-	-	-	-	-	-
3 - 4	1.4	3 - 3.5	1.4		-	0.4	-	-	-	-	-	-	-	-
		3.5 - 4	1.4		0.7	1.2	0	0.02	0.3	0.058	0.29	-	-	-
4 - 5	4.4	4 - 4.5	4.4		-	-	-	-	-	-	-	-	-	-
		4.5 - 5	3.6		-	-	-	-	-	-	-	-	-	-
5 - 6	1.1	5 - 5.5	1.1		-	-	-	-	-	-	-	-	-	-
		5.5 - 6	0.85		-	-	-	-	-	-	-	-	-	-
6 - 7	16	6 - 6.5	0.081		-	-	-	-	-	-	-	-	-	-
		6.5 - 7	16		0	0	0	0	0	0	0	-	-	-
7 - 8	3	7 - 7.5	0		-	-	-	-	-	-	-	-	-	-
		7.5 - 8	3		-	-	-	-	-	-	-	-	-	-
8 - 8.5	1.8	8 - 8.5	1.8		-	-	-	-	-	-	-	-	-	-
8.5 - 9	0	8.5 - 9	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water			9		6.62	7.29	7.98	9.18	8.46	7.29	6.71	4.78	5.28	9.45

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE III.vii
SESOIL RESULTS - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

SESOIL Interval (ft bgs)	SESOIL Concentration (mg/kg)	Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	WSO9 10/11/2002
0 - 1	12	0 - 0.5	12		-
		0.5 - 1	0.44		0
1 - 2	6.1	1.5 - 2	6.1		-
		1 - 1.5	1.7		-
2 - 3	1.4	2 - 2.5	1.4		-
		2.5 - 3	1.4		-
3 - 4	1.4	3 - 3.5	1.4		-
		3.5 - 4	1.4		-
4 - 5	4.4	4 - 4.5	4.4		-
		4.5 - 5	3.6		-
5 - 6	1.1	5 - 5.5	1.1		-
		5.5 - 6	0.85		-
6 - 7	16	6 - 6.5	0.081		-
		6.5 - 7	16		-
7 - 8	3	7 - 7.5	0		-
		7.5 - 8	3		-
8 - 8.5	1.8	8 - 8.5	1.8		-
8.5 - 9	0	8.5 - 9	0.049		-
Average Depth to Water			9		6.34

- Notes:
1. Red indicates that no samples were collected in that depth interval; the higher concentration of the bottom or top sample was used.
 2. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE IV
MAXIMUM LEACHATE CONCENTRATIONS IN THE BOTTOM-MOST LAYER OF SOIL
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Immobile Contaminants	SESOL Maximum Leachate Concentration (mg/L)		NJDEP Leachate Criteria (mg/L)
	AOC-8B	AOC-10	
Benzo(a)anthracene	0.00	0.00	1.00E-03
Benzo(a)pyrene	3.95E-04	0.00	1.00E-04
Lead	0.00	0.00	0.1
Lead (2 borings)*	0.00	--	0.1

Notes:

1. * indicates that SESOIL run was performed using median silty clay as site-specific soil texture

TABLE V
SUMMARY OF ANALYTICAL RESULTS
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

			Chemical Name: Benzo(a)anthracene	Benzo(a)pyrene
			Units: ug/L	ug/L
Groundwater Quality Standard:			0.1	0.1
Location	Date	Sample Name		
MW-7	03/21/2016	MW07-302116-1002	ND (0.05) *	ND (0.05) *
MW-7	10/20/2016	MW07-102016-1216	0.18 ^[A]	0.13 ^[A]
MW-7	03/24/2017	MW07-032417-1021	ND (0.1)	ND (0.1)
MW-4	03/21/2016	MW04-302116-1347	ND (0.05) *	ND (0.05) *
MW-4	10/18/2016	MW04-101816-1016	ND (0.052)	ND (0.052)
MW-4	03/23/2017	MW04-032317-1056	ND (0.1)	ND (0.1)

Notes:

1. Results in **red** exceed the following New Jersey criteria:

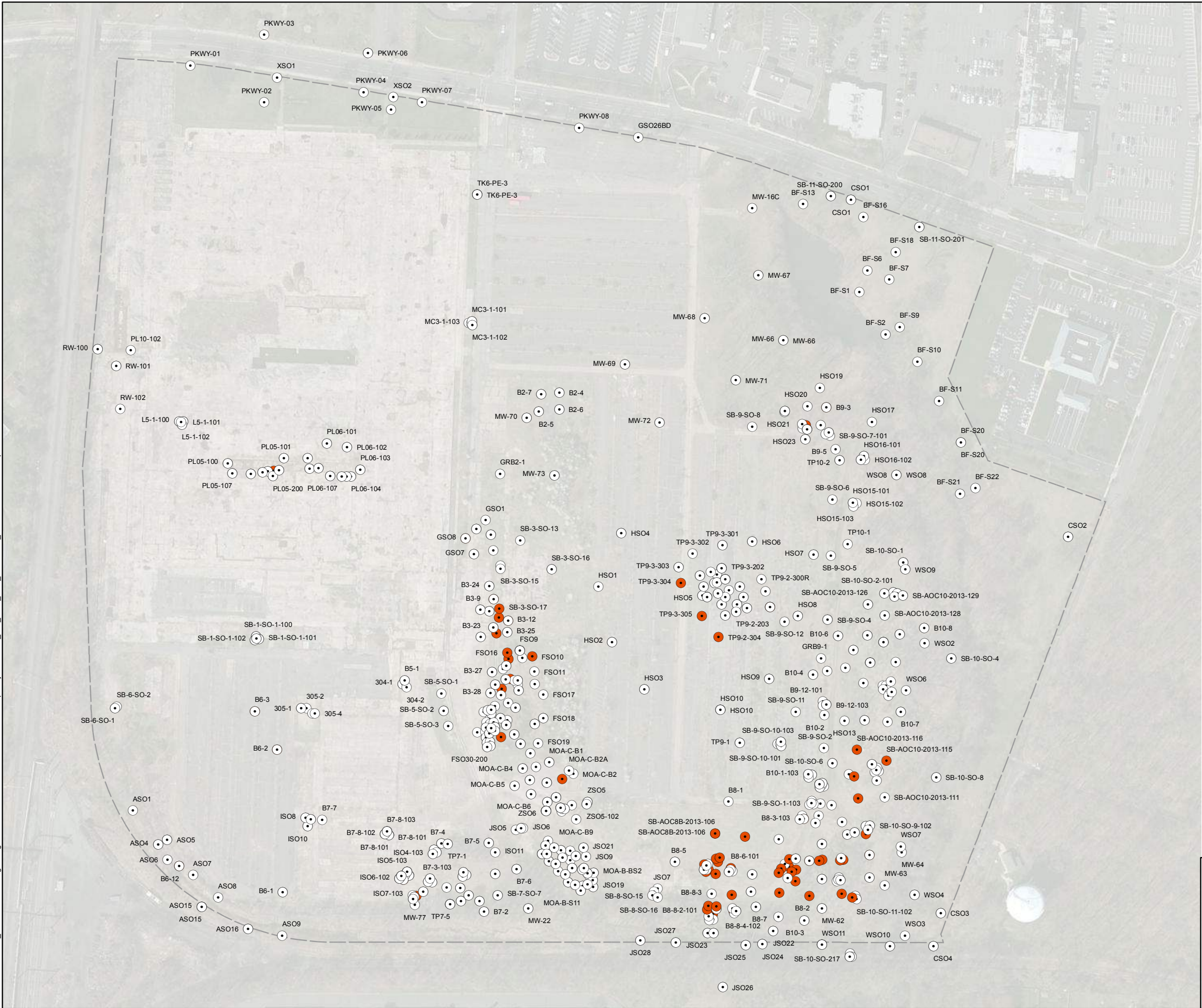
[A] - Groundwater Quality Standards

2. ND - Not detected above the reporting limit

* - LCS or LCSD outside acceptance limits

FIGURES

GIS FILE PATH: F:\2. GIS\RACER-Ewing\Gw Immobile Contaminate Evaluation\Map Projects\70613_821_0000_I\GW_IMMOBILE_BaA.mxd — USER: dquatasi — LAST SAVED: 7/20/2017 2:19:22 PM



LEGEND

Immobile_BaA

NO EXCEEDANCE

EXCEEDS SITE-SPECIFIC IGWSRS (DEFAULT 0.8 MG/KG)

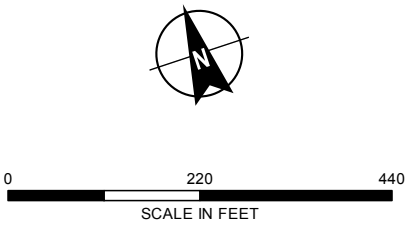
SITE BOUNDARY

- NOTES
1. DUE TO THE DENSITY OF SAMPLING LOCATIONS IN SOME AREAS, NOT ALL SAMPLING LOCATION LABELS ARE SHOWN ON THIS FIGURE.

2. THE SOIL BORINGS SHOWN IN THE FIGURE INDICATE THE DEEPEST SAMPLE COLLECTED AT THAT LOCATION.

3. NON-DETECT SAMPLES THAT EXCEED THE DEFAULT SOIL REMEDIATION STANDARD ARE NOT SHOWN AS AN EXCEEDANCE.

4. REFER TO TABLES FOR DETAILED RESULTS.



HALEY
ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

VERTICAL DELINEATION OF
BENZO(A)ANTHRACENE
TO DIGWSRS - SITE WIDE

GIS FILE PATH: F:\2_GISRACER-Ewing\Gw Immobile Contaminate Evaluation\Map Projects\70613_821_0000_GW_IMMOBILE_BaA_Subsurface.mxd — USER: dquatfisi — LAST SAVED: 7/20/2017 2:00:25 PM



LEGEND

Immobile_BaA_Subsurface

- NO EXCEEDANCE
- EXCEEDS SITE-SPECIFIC IGWSRS (DEFAULT 0.8 MG/KG)
- SITE BOUNDARY

NOTES

1. DUE TO THE DENSITY OF SAMPLING LOCATIONS IN SOME AREAS, NOT ALL SAMPLING LOCATION LABELS ARE SHOWN ON THIS FIGURE.
2. THE SOIL BORINGS SHOWN IN THE FIGURE INDICATE THE DEEPEST SAMPLE COLLECTED AT THAT LOCATION.
3. NON-DETECT SAMPLES THAT EXCEED THE DEFAULT SOIL REMEDIATION STANDARD ARE NOT SHOWN AS AN EXCEEDANCE.
4. REFER TO TABLES FOR DETAILED RESULTS.



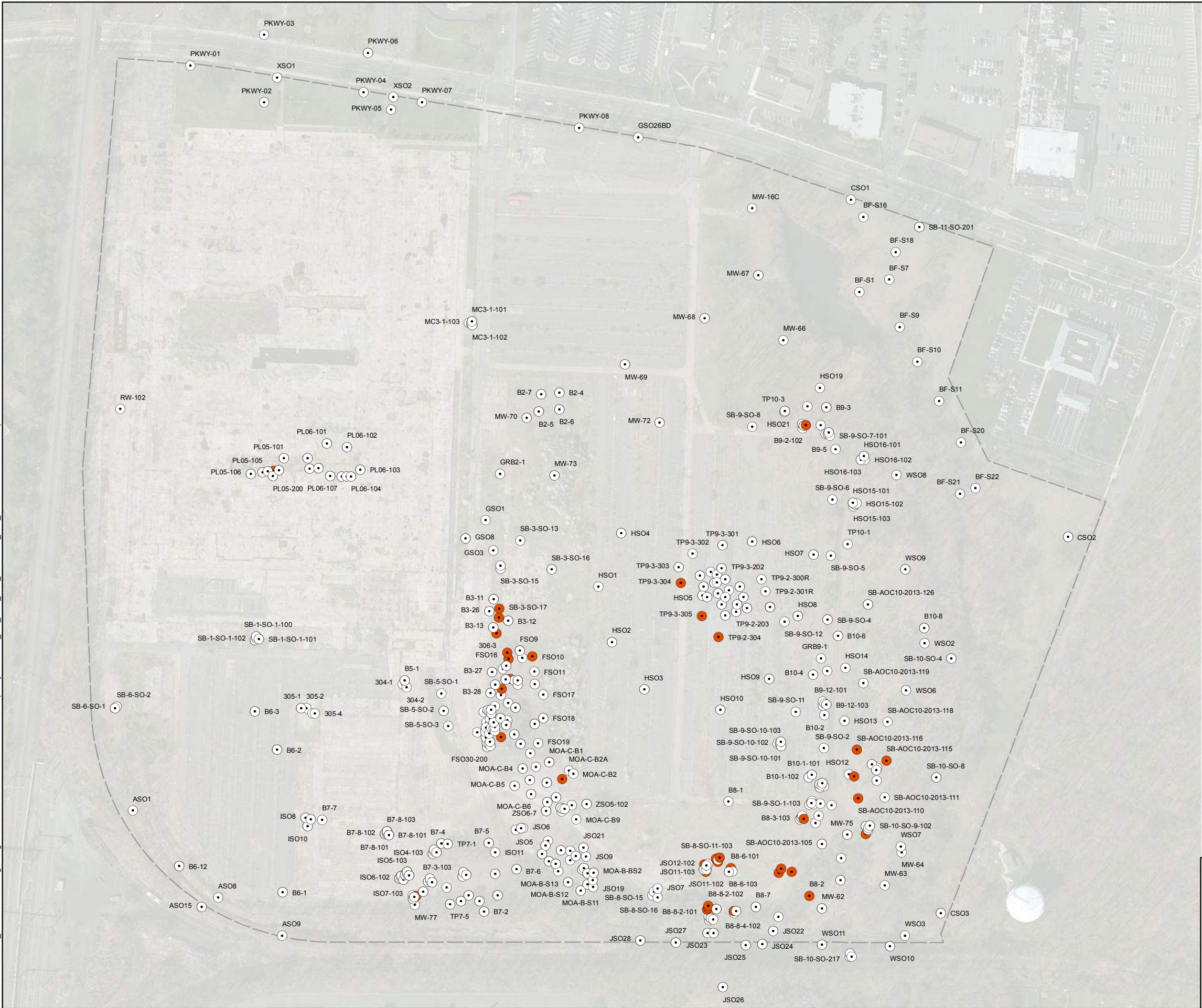
0 220 440
SCALE IN FEET

HALEY
ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

VERTICAL DELINEATION OF
BENZO(A)ANTHRACENE
TO DIGWSRS - SUBSURFACE
(2 FEET ABOVE WATER TABLE
TO THE WATER TABLE)
JULY 2017

FIGURE 1B



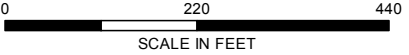
LEGEND

Immobile_BaA_Surface

- NO EXCEEDANCE
- EXCEEDS SITE-SPECIFIC IGWSRS (DEFAULT 0.8 MG/KG)
- SITE BOUNDARY

NOTES

1. DUE TO THE DENSITY OF SAMPLING LOCATIONS IN SOME AREAS, NOT ALL SAMPLING LOCATION LABELS ARE SHOWN ON THIS FIGURE.
2. THE SOIL BORINGS SHOWN IN THE FIGURE INDICATE THE DEEPEST SAMPLE COLLECTED AT THAT LOCATION.
3. NON-DETECT SAMPLES THAT EXCEED THE DEFAULT SOIL REMEDIATION STANDARD ARE NOT SHOWN AS AN EXCEEDANCE.
4. REFER TO TABLES FOR DETAILED RESULTS.



RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

VERTICAL DELINEATION OF
BENZO(A)ANTHRACENE
TO DIGWSRS - SURFACE
(GROUND SURFACE TO
2 FEET ABOVE WATER TABLE)

JULY 2017

FIGURE 1C

Immobilie_BaP

- ## NOTES

1. DUE TO THE DENSITY OF SAMPLING LOCATIONS IN SOME AREAS, NOT ALL SAMPLING LOCATION LABELS ARE SHOWN ON THIS FIGURE.
2. THE SOIL BORINGS SHOWN IN THE FIGURE INDICATE THE DEEPEST SAMPLE COLLECTED AT THAT LOCATION.
3. NON-DETECT SAMPLES THAT EXCEED THE DEFAULT SOIL REMEDIATION STANDARD ARE NOT SHOWN AS AN EXCEEDANCE.
4. REFER TO TABLES FOR DETAILED RESULTS.



0 220 440
SCALE IN FEET

HALEY
ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

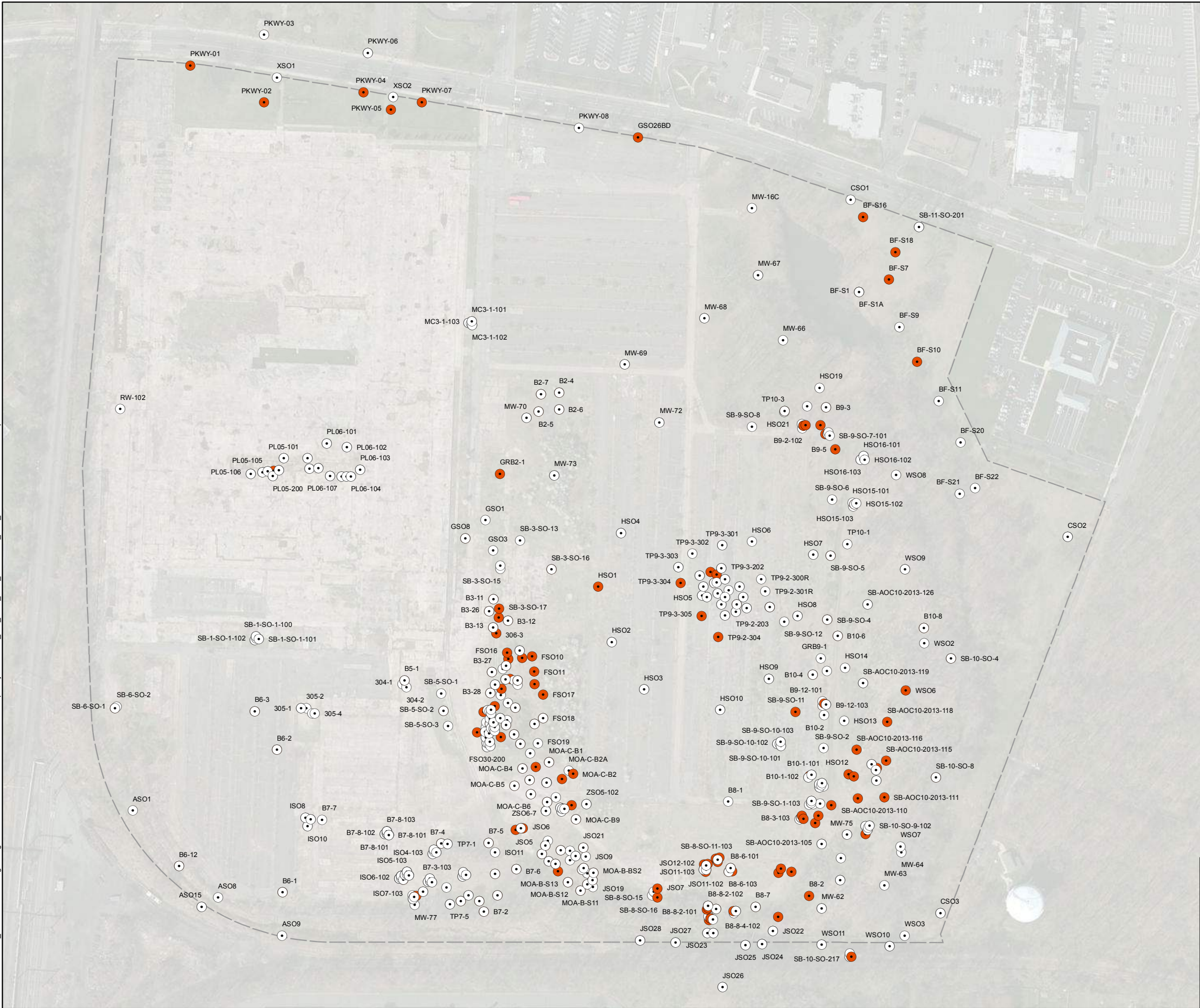
VERTICAL DELINEATION OF BENZO(A)PYRENE TO DIGWSRS - SITE WIDE

JULY 2017

FIGURE 1D

FIGURE 1E

GIS FILE PATH: F:\2_GISRACER-Ewing\Ging Immobile Contaminate Evaluation\Map Projects\70613_821_0000_IGW_IMMOBILE_BaP_Surface.mxd — USER: dqualis — LAST SAVED: 7/20/2017 2:02:37 PM



LEGEND

Immobile_BaP_Surface

- NO EXCEEDANCE
- EXCEEDS SITE-SPECIFIC IGWSRS (DEFAULT 0.2 MG/KG)
- SITE BOUNDARY

NOTES

1. DUE TO THE DENSITY OF SAMPLING LOCATIONS IN SOME AREAS, NOT ALL SAMPLING LOCATION LABELS ARE SHOWN ON THIS FIGURE.
2. THE SOIL BORINGS SHOWN IN THE FIGURE INDICATE THE DEEPEST SAMPLE COLLECTED AT THAT LOCATION.
3. NON-DETECT SAMPLES THAT EXCEED THE DEFAULT SOIL REMEDIATION STANDARD ARE NOT SHOWN AS AN EXCEEDANCE.
4. REFER TO TABLES FOR DETAILED RESULTS.



0 220 440
SCALE IN FEET

HALEY
ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

VERTICAL DELINEATION OF
BENZO(A)PYRENE
TO DIGWSRS - SURFACE
(GROUND SURFACE TO
2 FEET ABOVE WATER TABLE)

JULY 2017

FIGURE 1F

 NO EXCEEDANCE
 EXCEEDS SITE-SPECIFIC IGWSRS (DEFAULT 90 MG/KG)
 SITE BOUNDARY

1. DUE TO THE DENSITY OF SAMPLING LOCATIONS IN SOME AREAS, NOT ALL SAMPLING LOCATION LABELS ARE SHOWN ON THIS FIGURE.
2. THE SOIL BORINGS SHOWN IN THE FIGURE INDICATE THE DEEPEST SAMPLE COLLECTED AT THAT LOCATION.
3. NON-DETECT SAMPLES THAT EXCEED THE DEFAULT SOIL REMEDIATION STANDARD ARE NOT SHOWN AS AN EXCEEDANCE.
4. REFER TO TABLES FOR DETAILED RESULTS.



0 220 440
SCALE IN FEET

**HALEY
ALDRICH**

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

VERTICAL DELINEATION OF LEAD TO DIGWSRS - SITE WIDE

JULY 2017

FIGURE 1G

FIGURE 1H

 NO EXCEEDANCE
 EXCEEDS SITE-SPECIFIC IGWSRS (DEFAULT 90 MG/KG)
 SITE BOUNDARY

1. DUE TO THE DENSITY OF SAMPLING LOCATIONS IN SOME AREAS, NOT ALL SAMPLING LOCATION LABELS ARE SHOWN ON THIS FIGURE.
2. THE SOIL BORINGS SHOWN IN THE FIGURE INDICATE THE DEEPEST SAMPLE COLLECTED AT THAT LOCATION.
3. NON-DETECT SAMPLES THAT EXCEED THE DEFAULT SOIL REMEDIATION STANDARD ARE NOT SHOWN AS AN EXCEEDANCE.
4. REFER TO TABLES FOR DETAILED RESULTS.



0 220 440
SCALE IN FEET

HALEY
ALDRICH

RACER TRUST
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

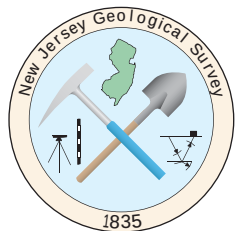
VERTICAL DELINEATION OF LEAD
TO DIGWSRS - SURFACE
(GROUND SURFACE TO
2 FEET ABOVE WATER TABLE)

JULY 2017

FIGURE 11

ATTACHMENT C

SESOIL Data

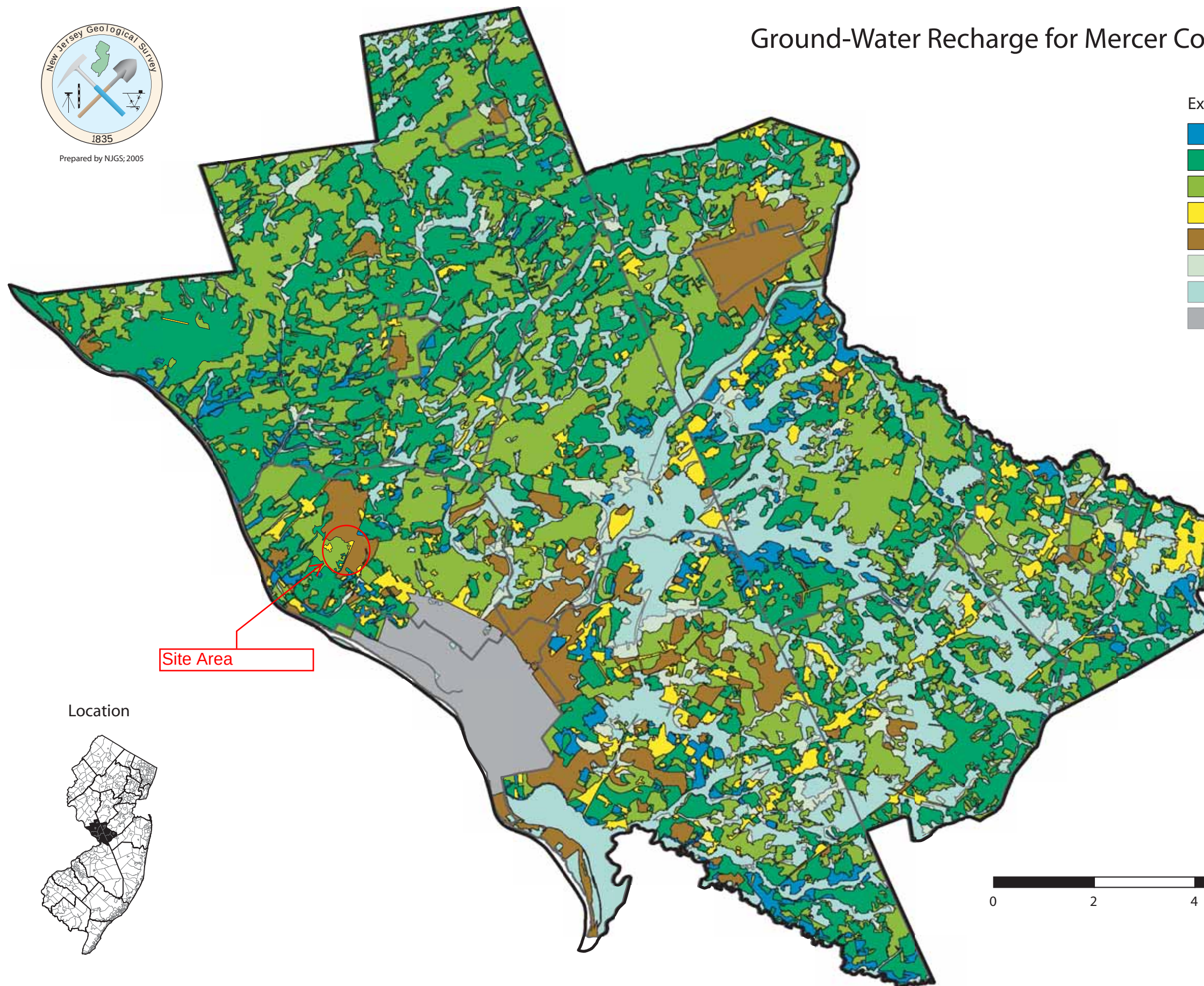


Prepared by NJGS, 2005

Ground-Water Recharge for Mercer County, New Jersey

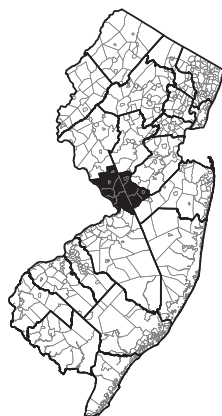
Explanation

- 14 to 15 inches/year
- 11 to 13 inches/year
- 8 to 10 inches/year
- 1 to 7 inches/year
- 0 inches/year
- Hydric Soils
- Wetlands and Open Water
- No Recharge Calculated



Site Area

Location

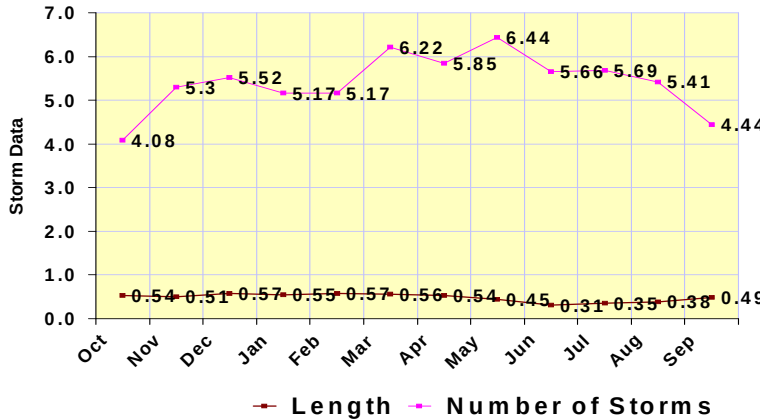
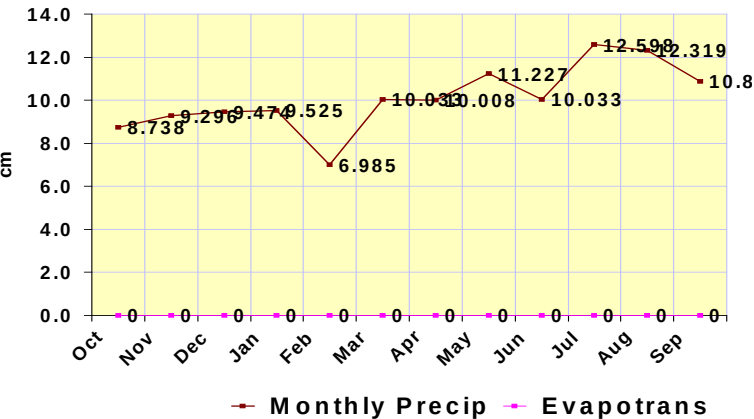
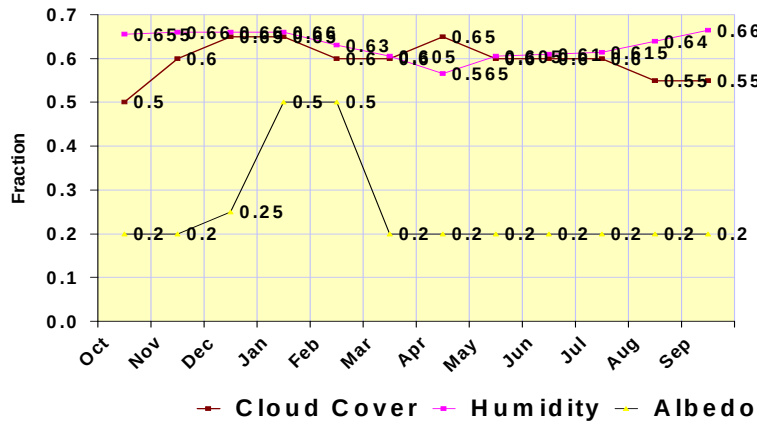
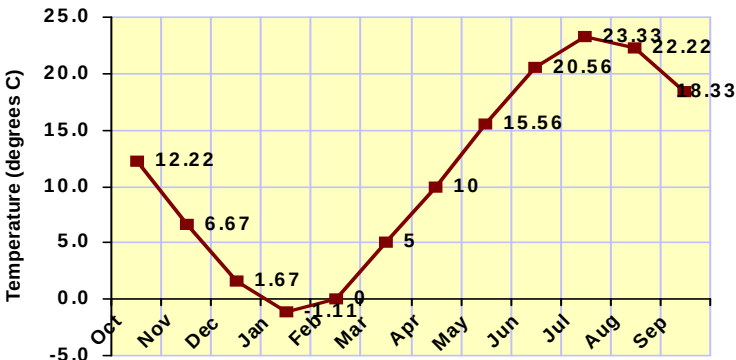


Miles
Scale 1:132,500

Climate Report

Location Description: TRENTON
Climatic Input File: C:\SEV7 WIN7\TRENTON.CLM

Month	Temperature		Precipitation		Evapotranspiration Rate		Storms		Cloud Cover	Albedo	Humidity
Units	°C	°F	cm	Inches	cm	Inches	# per Month	Length Days	Fraction	Fraction	Fraction
October	12.22	54.00	8.738	3.44	0.00	0.00	4.08	0.540	0.500	0.200	0.655
November	6.67	44.01	9.296	3.66	0.00	0.00	5.30	0.510	0.600	0.200	0.660
December	1.67	35.01	9.474	3.73	0.00	0.00	5.52	0.570	0.650	0.250	0.660
January	-1.11	30.00	9.525	3.75	0.00	0.00	5.17	0.550	0.650	0.500	0.660
February	0.00	32.00	6.985	2.75	0.00	0.00	5.17	0.570	0.600	0.500	0.630
March	5.00	41.00	10.033	3.95	0.00	0.00	6.22	0.560	0.600	0.200	0.605
April	10.00	50.00	10.008	3.94	0.00	0.00	5.85	0.540	0.650	0.200	0.565
May	15.56	60.01	11.227	4.42	0.00	0.00	6.44	0.450	0.600	0.200	0.605
June	20.56	69.01	10.033	3.95	0.00	0.00	5.66	0.310	0.600	0.200	0.610
July	23.33	73.99	12.598	4.96	0.00	0.00	5.69	0.350	0.600	0.200	0.615
August	22.22	72.00	12.319	4.85	0.00	0.00	5.41	0.380	0.550	0.200	0.640
September	18.33	64.99	10.871	4.28	0.00	0.00	4.44	0.490	0.550	0.200	0.665
Total			121.11	47.68	0.00	0.00					



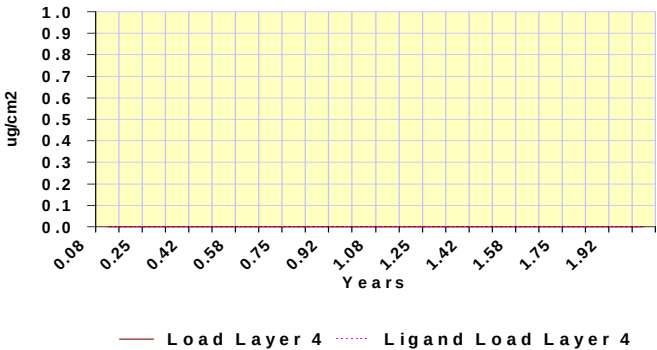
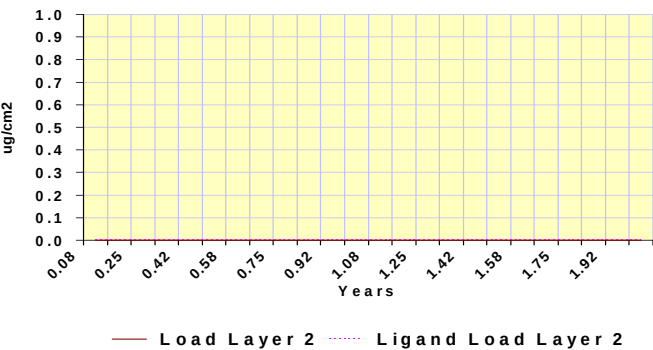
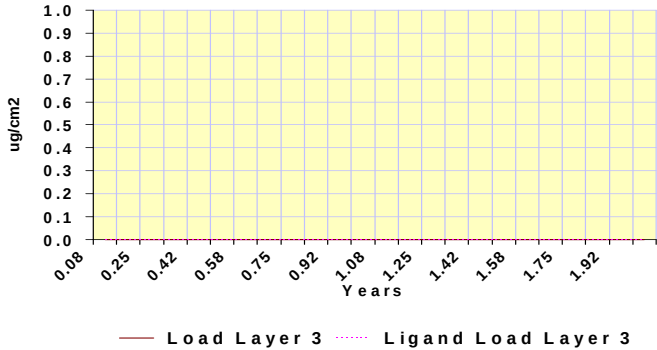
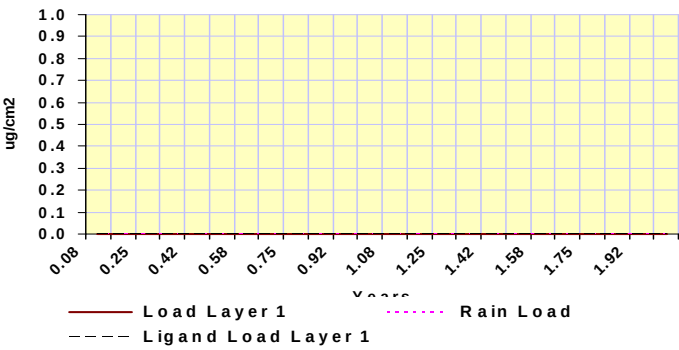
SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet								
1	4	122.0	4.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	4	122.0	4.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	3	91.4	3.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	8	30.5	1.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters		Chemical Parameters	
Bulk Density (g/cm ³)	1.50	Water Solubility (µg/mL)	9.40E-3
Effective Porosity (fraction)	0.30	Henry's Law (M ³ atm/mol)	3.35E-6
Soil Pore Disconnectedness	3.70	K _{oc} Adsorp (µg/g)/(µg/mL)	398000
Application Parameters		K _d Adsorp (µg/g)/(µg/mL)	0.00
Area cm ²	6.37E+7	Valence (g/mole)	0.00
ft ²	6.85E+4	Air Diffusion (cm ² /sec)	5.10E-2
Latitude degrees	40.3	Water Diffusion (cm ² /sec)	9.00E-6
Spill Index	1	Molecular Weight (g/mol)	228.00
Output File: LEAD SESOIL RUN		Moles Ligand / Moles Chemical	
C:\SEV7 WIN7\S01.OUT		Ligand Molecular Weight (g/mol)	
Chemical File: Benzo(a)anthracene		K _{oc} Dedsorp (µg/g)/(µg/mL)	
C:\SEV7 WIN7\BENZO(A)ANTHRACENE NJDEP.CHM		K _d Dedsorp (µg/g)/(µg/mL)	
Soil File: Sand, Perm = 1.00E-3 cm/sec		Ligand Dissociation Constant	
C:\SEV7 WIN7\SAND.SOI		Base Hydrolysis Rate(L/mol/day)	
Application File: SEVIEW Default Application Parameters		Neutral Hydrolysis (L/mol/day)	
C:\SEV7 WIN7\AOC8B-BAA_NEWEST.APL		Acid Hydrolysis (L/mol/day)	

Output File: LEAD SESOIL RUN
C:\SEV7 WIN7\S01.OUT
Chemical File: Benzo(a)anthracene
C:\SEV7 WIN7\BENZO(A)ANTHRACENE NJDEP.CHM
Soil File: Sand, Perm = 1.00E-3 cm/sec
C:\SEV7 WIN7\SAND.SOI
Application File: SEVIEW Default Application Parameters
C:\SEV7 WIN7\AOC8B-BAA_NEWEST.APL

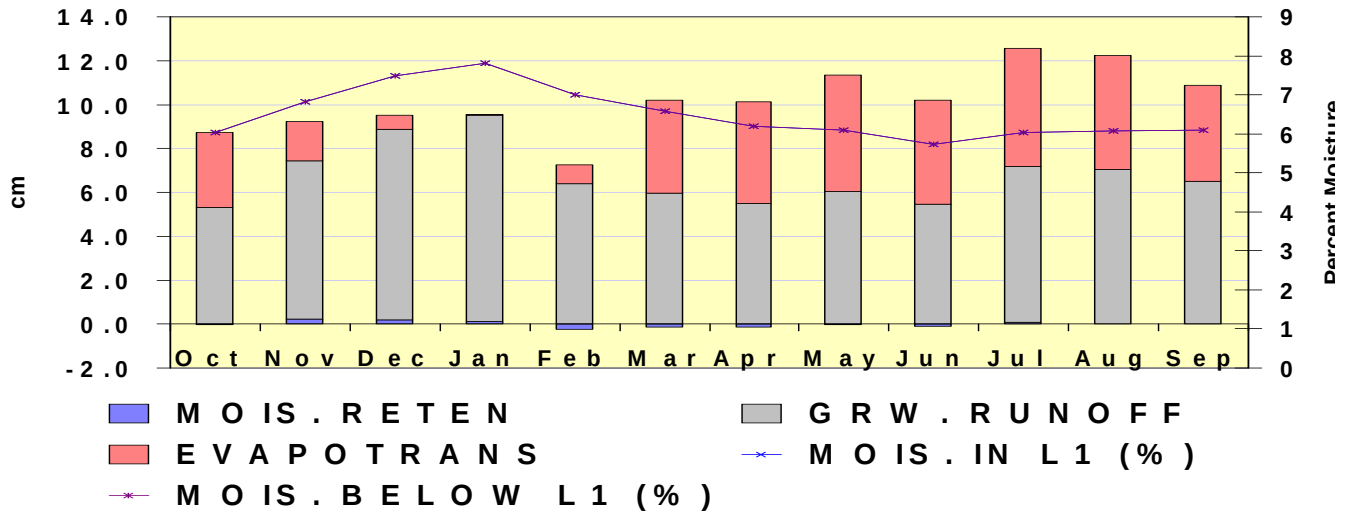
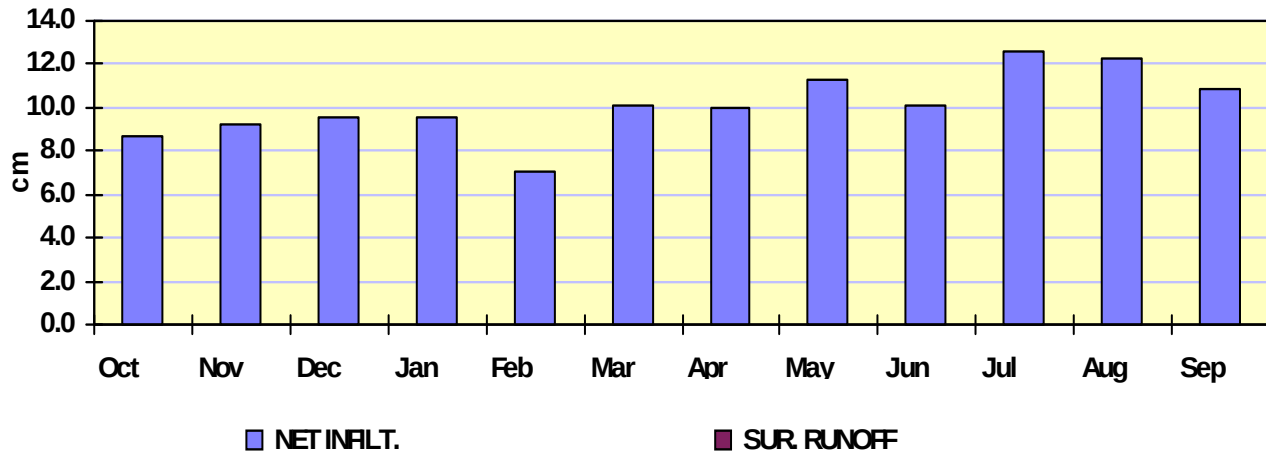
Sublayer Loads	1	2	3	4	5	6	7	8	9	10
Layer 1 (ug/g)	1.70E+01	1.80E+01	1.40E+01	6.50E+00						
Layer 2 (ug/g)	6.50E+00	1.40E+00	2.10E+00	8.00E+00						
Layer 3 (ug/g)	8.50E-01	4.30E+00	1.20E+01							
Layer 4 (ug/g)										



SESOIL Hydrologic Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: C:\SEV7 WIN7\S01.OUT



	Surface Water Runoff		Net Infiltration		Evapotranspiration		Soil Moisture Retention		Groundwater Runoff (Recharge)		Soil Moisture	
	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Layer 1 Percent	Below Layer 1 Percent
October	0.00	0.00	8.73	3.44	3.44	1.35	-0.02	-0.01	5.31	2.09	6.04	6.04
November	0.00	0.00	9.24	3.64	1.82	0.72	0.24	0.09	7.19	2.83	6.82	6.82
December	0.00	0.00	9.51	3.74	0.64	0.25	0.20	0.08	8.67	3.41	7.48	7.48
January	0.00	0.00	9.55	3.76	0.03	0.01	0.10	0.04	9.43	3.71	7.81	7.81
February	0.00	0.00	7.01	2.76	0.87	0.34	-0.25	-0.10	6.39	2.52	7.00	7.00
March	0.00	0.00	10.06	3.96	4.21	1.66	-0.13	-0.05	5.98	2.35	6.58	6.58
April	0.00	0.00	10.01	3.94	4.63	1.82	-0.12	-0.05	5.50	2.17	6.19	6.19
May	0.00	0.00	11.32	4.46	5.30	2.09	-0.03	-0.01	6.05	2.38	6.10	6.10
June	0.00	0.00	10.08	3.97	4.72	1.86	-0.11	-0.04	5.47	2.15	5.74	5.74
July	0.00	0.00	12.58	4.95	5.40	2.13	0.09	0.04	7.09	2.79	6.04	6.04
August	0.00	0.00	12.23	4.81	5.18	2.04	0.01	0.00	7.04	2.77	6.07	6.07
September	0.00	0.00	10.89	4.29	4.37	1.72	0.01	0.00	6.51	2.56	6.10	6.10
Total	0.00	0.00	121.21	47.72	40.59	15.98	0.00	0.00	80.61	31.74	--	--

SESOIL Pollutant Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: C:\SEV7 WIN7\S01.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	3.921E+07	0.01
In Soil Air	4.905E+03	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	1.771E+11	67.10
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	8.655E+10	32.78
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	9.048E+06	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	2.637E+11	99.90
Total Input	2.640E+11	
Input - Output	2.707E+08	

Maximum leachate concentration: 0.000E+00 mg/l

Climate File: TRENTON

C:\SEV7 WIN7\TRENTON.CLM

Chemical File: Benzo(a)anthracene

C:\SEV7 WIN7\BENZO(A)ANTHRACENE NJDEP.CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec

C:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters

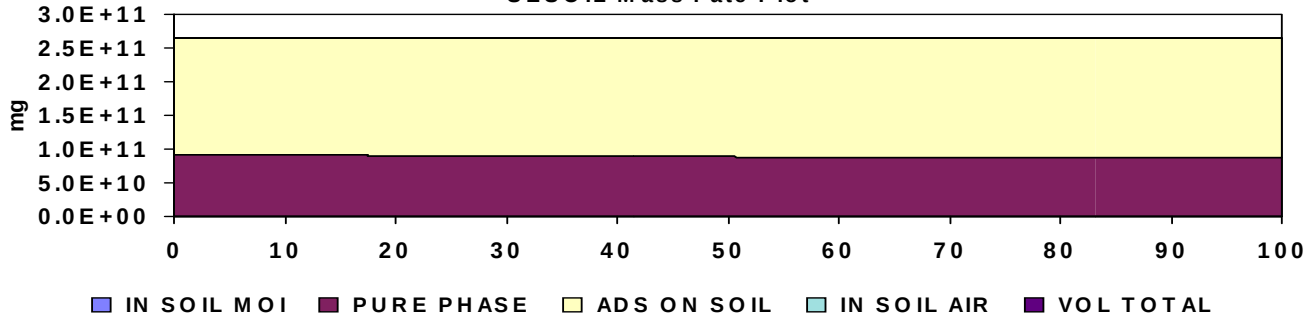
C:\SEV7 WIN7\AOC8B-BAA_NEWEST.APL

Starting Depth: 320.00 cm

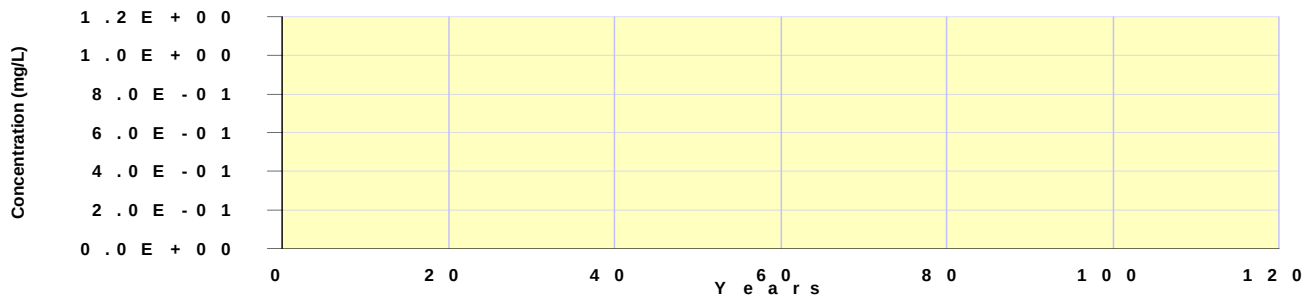
Ending Depth: 327.60 cm

Total Depth: 365.90 cm

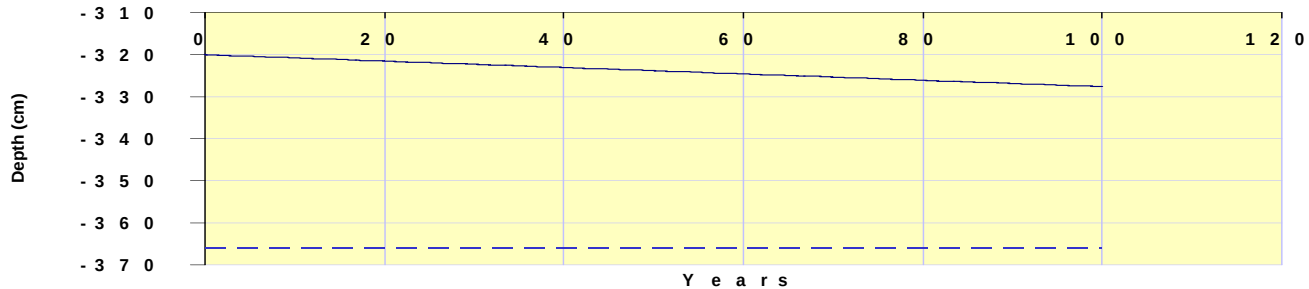
SESOIL Mass Fate Plot



Leachate Concentration



Contaminant Depth Plot

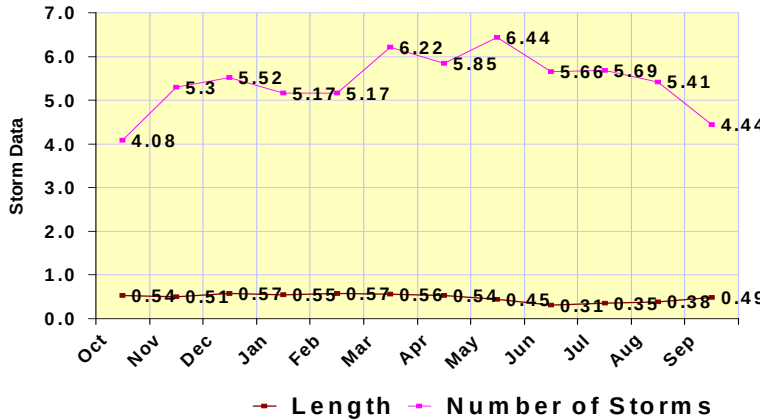
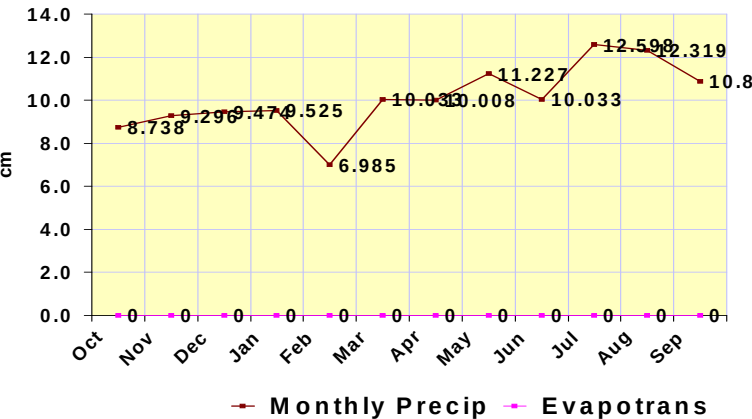
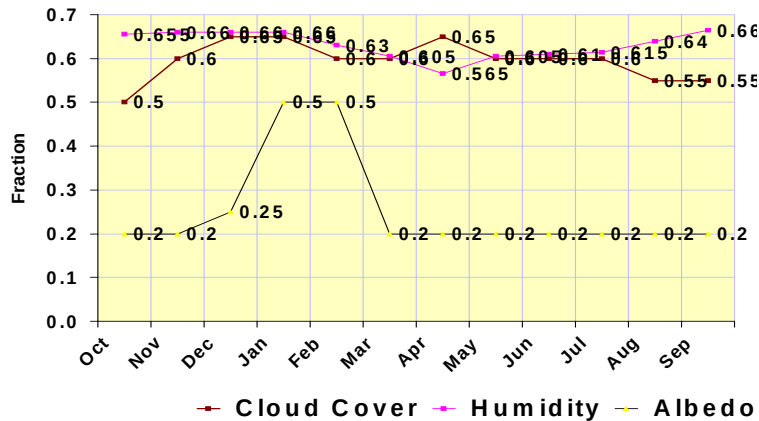
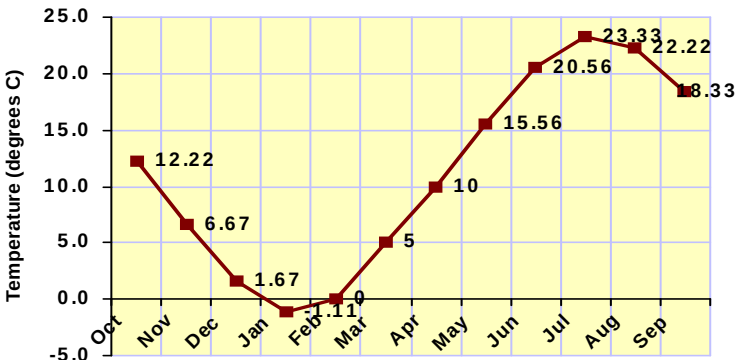


Climate Report

Location Description: TRENTON

Climatic Input File: c:\SEV7 WIN7\TRENTON.CLM

Month	Temperature		Precipitation		Evapotranspiration Rate		Storms		Cloud Cover	Albedo	Humidity
Units	°C	°F	cm	Inches	cm	Inches	# per Month	Length Days	Fraction	Fraction	Fraction
October	12.22	54.00	8.738	3.44	0.00	0.00	4.08	0.540	0.500	0.200	0.655
November	6.67	44.01	9.296	3.66	0.00	0.00	5.30	0.510	0.600	0.200	0.660
December	1.67	35.01	9.474	3.73	0.00	0.00	5.52	0.570	0.650	0.250	0.660
January	-1.11	30.00	9.525	3.75	0.00	0.00	5.17	0.550	0.650	0.500	0.660
February	0.00	32.00	6.985	2.75	0.00	0.00	5.17	0.570	0.600	0.500	0.630
March	5.00	41.00	10.033	3.95	0.00	0.00	6.22	0.560	0.600	0.200	0.605
April	10.00	50.00	10.008	3.94	0.00	0.00	5.85	0.540	0.650	0.200	0.565
May	15.56	60.01	11.227	4.42	0.00	0.00	6.44	0.450	0.600	0.200	0.605
June	20.56	69.01	10.033	3.95	0.00	0.00	5.66	0.310	0.600	0.200	0.610
July	23.33	73.99	12.598	4.96	0.00	0.00	5.69	0.350	0.600	0.200	0.615
August	22.22	72.00	12.319	4.85	0.00	0.00	5.41	0.380	0.550	0.200	0.640
September	18.33	64.99	10.871	4.28	0.00	0.00	4.44	0.490	0.550	0.200	0.665
Total			121.11	47.68	0.00	0.00					



SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet								
1	8	244.0	8.01	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	8	30.5	1.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3		0.0	0.00	1.00E-8	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00
4		0.0	0.00	1.00E-8	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00

Soil Parameters

Bulk Density (g/cm ³)	1.50
Effective Porosity (fraction)	0.30
Soil Pore Disconnectedness	3.70

Chemical Parameters

Water Solubility (µg/mL)	9.40E-3	Moles Ligand / Moles Chemical	0.00
Henry's Law (M ³ atm/mol)	3.35E-6	Ligand Molecular Weight (g/mol)	0.00
K _{oc} Adsorp (µg/g)/(µg/mL)	398000	K _{oc} Dedsorp (µg/g)/(µg/mL)	0.00
K _d Adsorp (µg/g)/(µg/mL)	0.00	K _d Dedsorp (µg/g)/(µg/mL)	0.00
Valence (g/mole)	0.00	Ligand Dissociation Constant	0.00
Air Diffusion (cm ² /sec)	5.10E-2	Base Hydrolysis Rate(L/mol/day)	0.00
Water Diffusion (cm ² /sec)	9.00E-6	Neutral Hydrolysis (L/mol/day)	0.00
Molecular Weight (g/mol)	228.00	Acid Hydrolysis (L/mol/day)	0.00

Application Parameters

Area	cm ²	8.72E+7
	ft ²	9.38E+4
Latitude	degrees	40.3
Spill Index		1

Output File: LEAD SESOIL RUN
c:\SEV7 WIN7\S01.OUT

Chemical File: Benzo(a)anthracene
c:\sev7 win7\BENZO(A)ANTHRACENE NJDEP.CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec
c:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters
C:\SEV7 WIN7\AOC10-BAA_NEWEST.APL

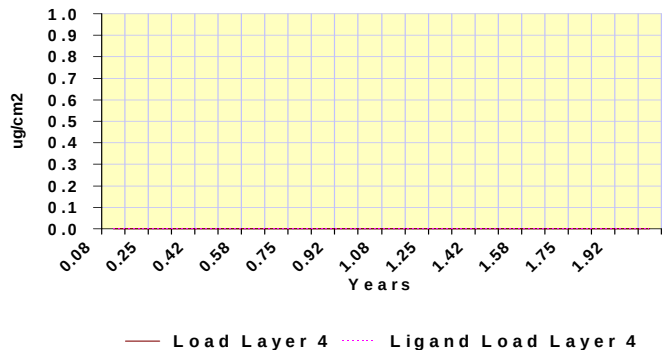
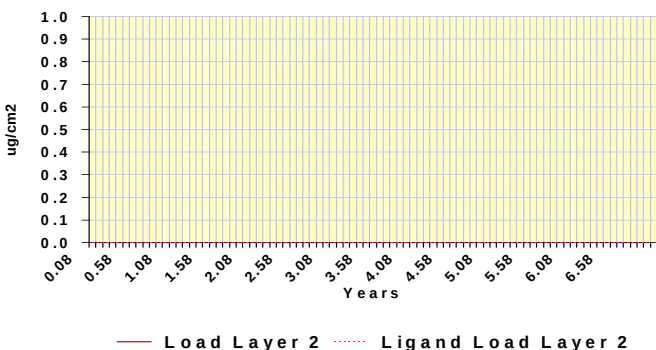
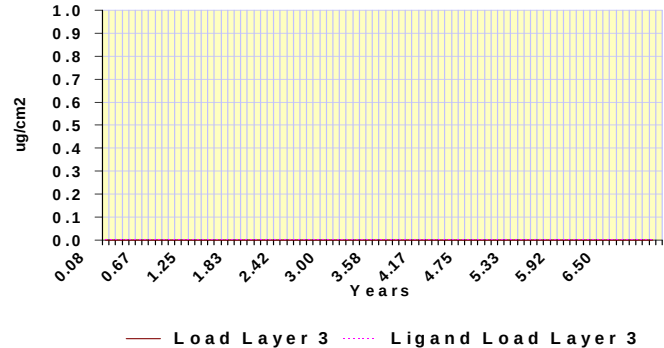
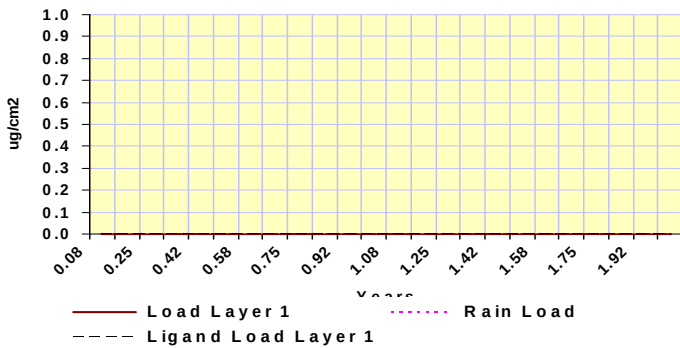
Sublayer Loads 1 2 3 4 5 6 7 8 9 10

Layer 1 (ug/g) 1.40E+01 6.40E+00 1.40E+00 1.40E+00 5.90E+00 1.60E+00 1.70E+01 2.80E+00

Layer 2 (ug/g) 2.50E+00 2.50E+00 2.50E+00 2.50E+00

Layer 3 (ug/g)

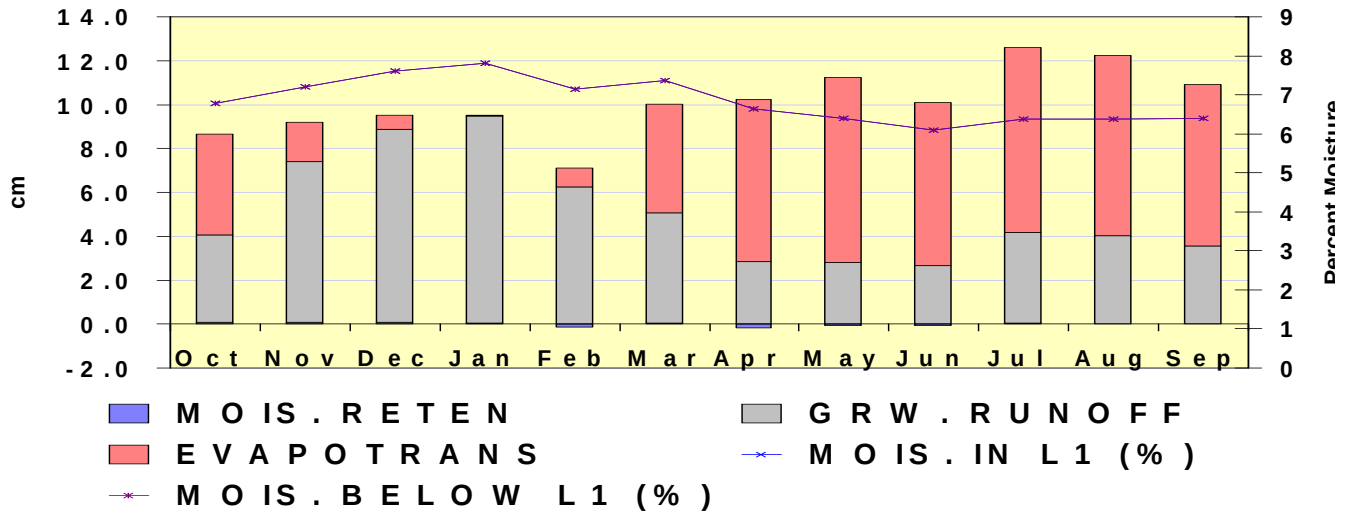
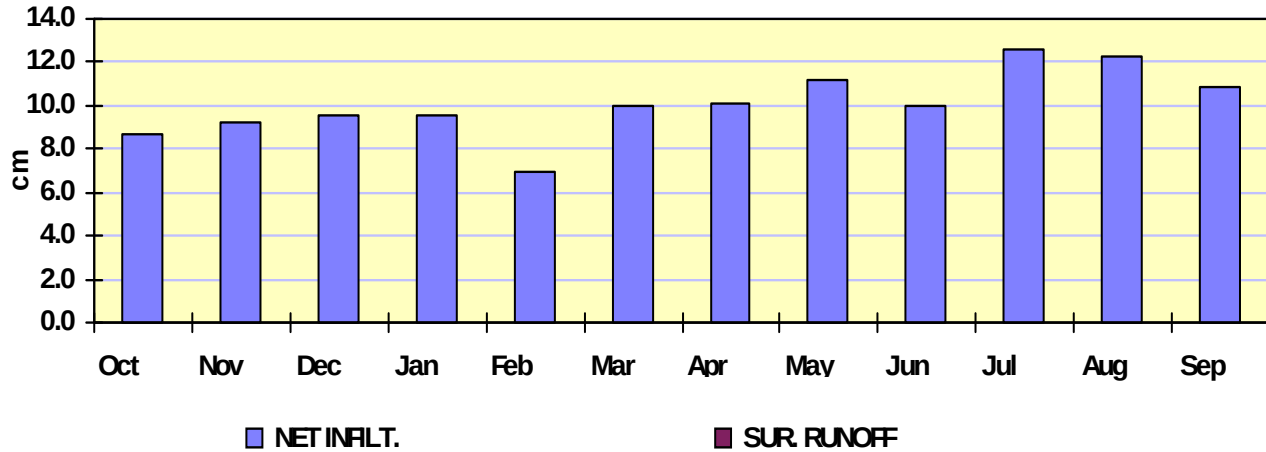
Layer 4 (ug/g)



SESOIL Hydrologic Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: c:\SEV7 WIN7\S01.OUT



	Surface Water Runoff		Net Infiltration		Evapotranspiration		Soil Moisture Retention		Groundwater Runoff (Recharge)		Soil Moisture	
	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Layer 1 Percent	Below Layer 1 Percent
October	0.00	0.00	8.66	3.41	4.58	1.80	0.09	0.04	3.99	1.57	6.79	6.79
November	0.00	0.00	9.20	3.62	1.82	0.72	0.10	0.04	7.29	2.87	7.21	7.21
December	0.00	0.00	9.50	3.74	0.64	0.25	0.09	0.04	8.78	3.46	7.60	7.60
January	0.00	0.00	9.50	3.74	0.03	0.01	0.05	0.02	9.43	3.71	7.81	7.81
February	0.00	0.00	6.98	2.75	0.87	0.34	-0.15	-0.06	6.26	2.46	7.15	7.15
March	0.00	0.00	10.02	3.94	4.94	1.94	0.05	0.02	5.03	1.98	7.36	7.36
April	0.00	0.00	10.07	3.96	7.38	2.91	-0.16	-0.06	2.86	1.13	6.64	6.64
May	0.00	0.00	11.19	4.41	8.44	3.32	-0.05	-0.02	2.80	1.10	6.40	6.40
June	0.00	0.00	10.03	3.95	7.43	2.93	-0.07	-0.03	2.68	1.06	6.10	6.10
July	0.00	0.00	12.60	4.96	8.44	3.32	0.06	0.02	4.10	1.61	6.37	6.37
August	0.00	0.00	12.23	4.81	8.20	3.23	0.00	0.00	4.02	1.58	6.37	6.37
September	0.00	0.00	10.90	4.29	7.35	2.89	0.01	0.00	3.54	1.39	6.40	6.40
Total	0.00	0.00	120.88	47.59	60.10	23.66	0.00	0.00	60.77	23.93	--	--

SESOIL Pollutant Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: c:\SEV7 WIN7\S01.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	5.101E+07	0.02
In Soil Air	4.257E+03	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	1.556E+11	75.47
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	5.022E+10	24.34
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	8.345E+06	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	2.059E+11	99.84
Total Input	2.063E+11	
Input - Output	3.356E+08	

Maximum leachate concentration: 0.000E+00 mg/l

Climate File: TRENTON

c:\SEV7 WIN7\TRENTON.CLM

Chemical File: Benzo(a)anthracene

c:\sev7 win7\BENZO(A)ANTHRACENE NJDEP.CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec

c:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters

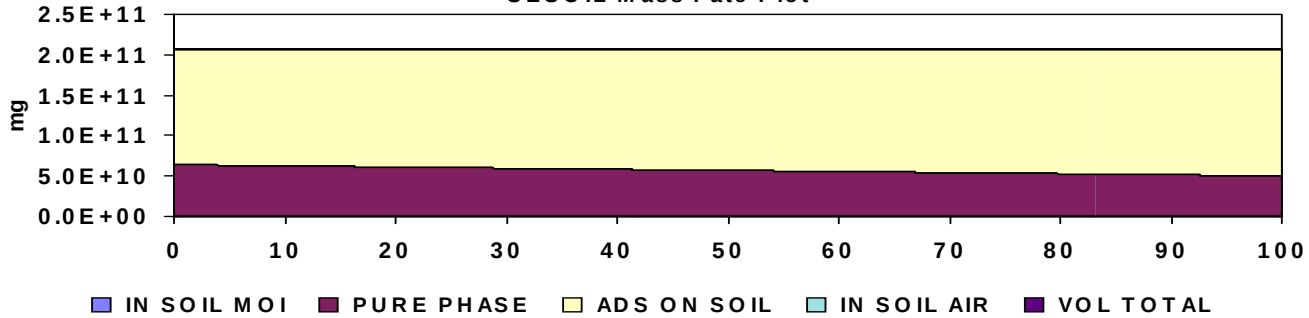
C:\SEV7 WIN7\AOC10-BAA_NEWEST.APL

Starting Depth: 257.20 cm

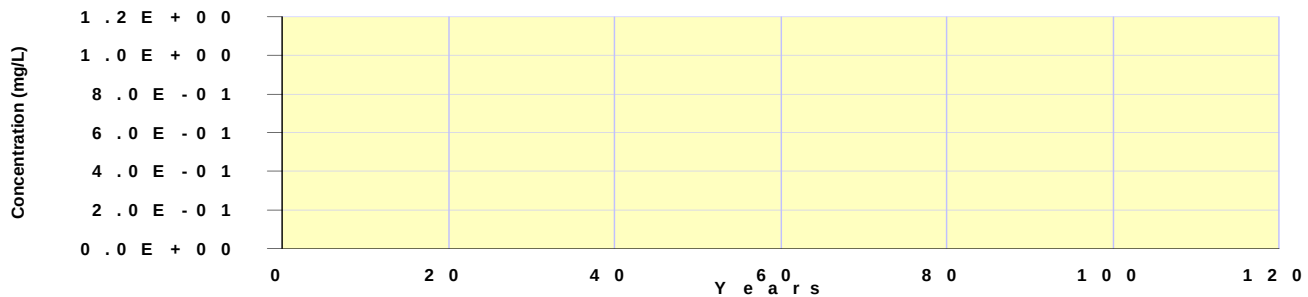
Ending Depth: 262.70 cm

Total Depth: 274.50 cm

SESOIL Mass Fate Plot



Leachate Concentration



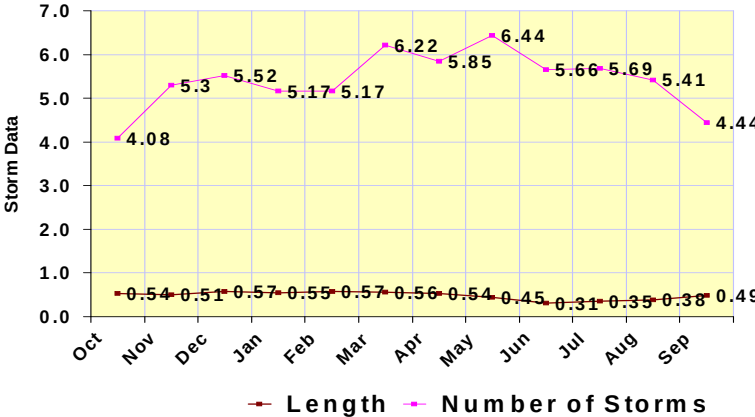
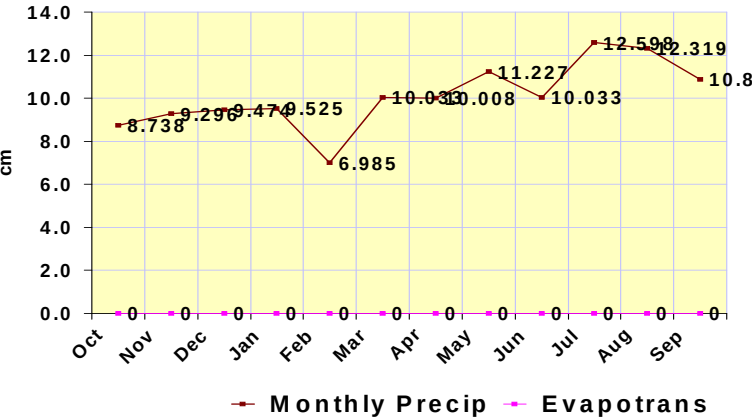
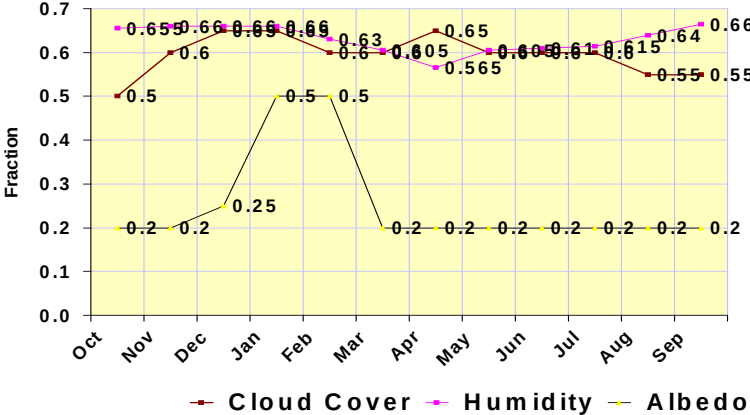
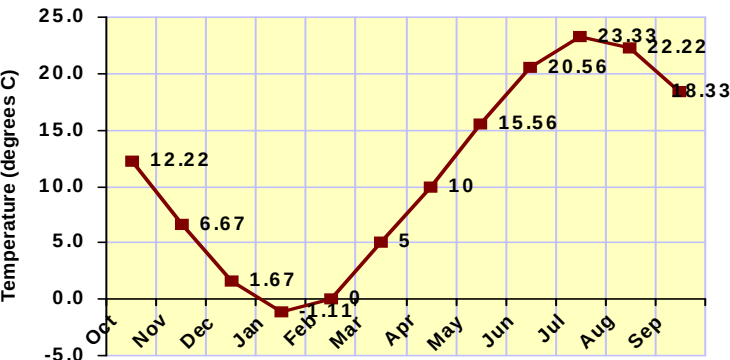
Contaminant Depth Plot



Climate Report

Location Description: TRENTON
Climatic Input File: C:\SEV7 WIN7\TRENTON.CLM

Month	Temperature		Precipitation		Evapotranspiration Rate		Storms		Cloud Cover	Albedo	Humidity
Units	°C	°F	cm	Inches	cm	Inches	# per Month	Length Days	Fraction	Fraction	Fraction
October	12.22	54.00	8.738	3.44	0.00	0.00	4.08	0.540	0.500	0.200	0.655
November	6.67	44.01	9.296	3.66	0.00	0.00	5.30	0.510	0.600	0.200	0.660
December	1.67	35.01	9.474	3.73	0.00	0.00	5.52	0.570	0.650	0.250	0.660
January	-1.11	30.00	9.525	3.75	0.00	0.00	5.17	0.550	0.650	0.500	0.660
February	0.00	32.00	6.985	2.75	0.00	0.00	5.17	0.570	0.600	0.500	0.630
March	5.00	41.00	10.033	3.95	0.00	0.00	6.22	0.560	0.600	0.200	0.605
April	10.00	50.00	10.008	3.94	0.00	0.00	5.85	0.540	0.650	0.200	0.565
May	15.56	60.01	11.227	4.42	0.00	0.00	6.44	0.450	0.600	0.200	0.605
June	20.56	69.01	10.033	3.95	0.00	0.00	5.66	0.310	0.600	0.200	0.610
July	23.33	73.99	12.598	4.96	0.00	0.00	5.69	0.350	0.600	0.200	0.615
August	22.22	72.00	12.319	4.85	0.00	0.00	5.41	0.380	0.550	0.200	0.640
September	18.33	64.99	10.871	4.28	0.00	0.00	4.44	0.490	0.550	0.200	0.665
Total			121.11	47.68	0.00	0.00					



SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet								
1	4	122.0	4.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	4	122.0	4.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	3	91.4	3.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	8	30.5	1.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters		Chemical Parameters	
Bulk Density (g/cm ³)	1.50	Water Solubility (µg/mL)	1.62E-3
Effective Porosity (fraction)	0.30	Henry's Law (M ³ atm/mol)	1.13E-6
Soil Pore Disconnectedness	3.70	K _{oc} Adsorp (µg/g)/(µg/mL)	1020000
		K _d Adsorp (µg/g)/(µg/mL)	0.00
		Valence (g/mole)	0.00
		Air Diffusion (cm ² /sec)	4.30E-2
		Water Diffusion (cm ² /sec)	9.00E-6
		Molecular Weight (g/mol)	252.00

Moles Ligand / Moles Chemical	0.00
Ligand Molecular Weight (g/mol)	0.00
K _{oc} Dedsorp (µg/g)/(µg/mL)	0.00
K _d Dedsorp (µg/g)/(µg/mL)	0.00
Ligand Dissociation Constant	0.00
Base Hydrolysis Rate(L/mol/day)	0.00
Neutral Hydrolysis (L/mol/day)	0.00
Acid Hydrolysis (L/mol/day)	0.00

Application Parameters	
Area cm ²	6.37E+7
ft ²	6.85E+4
Latitude degrees	40.3
Spill Index	1

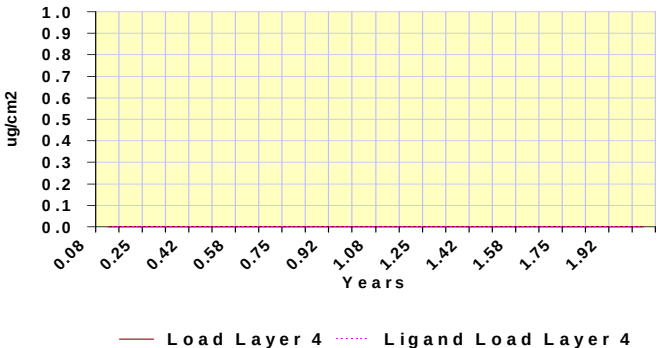
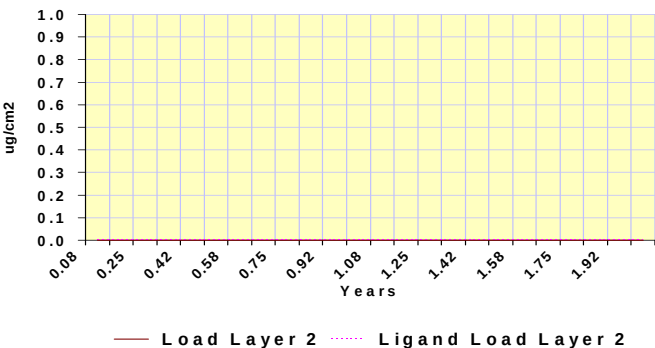
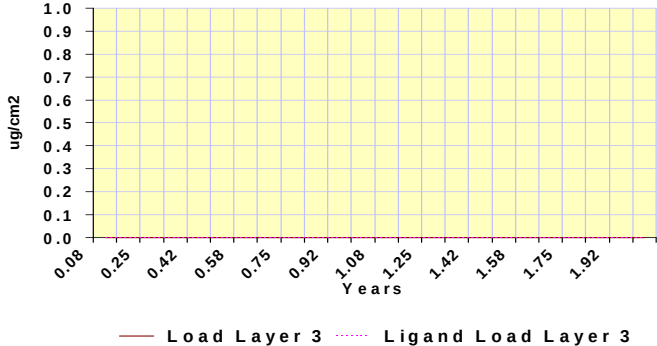
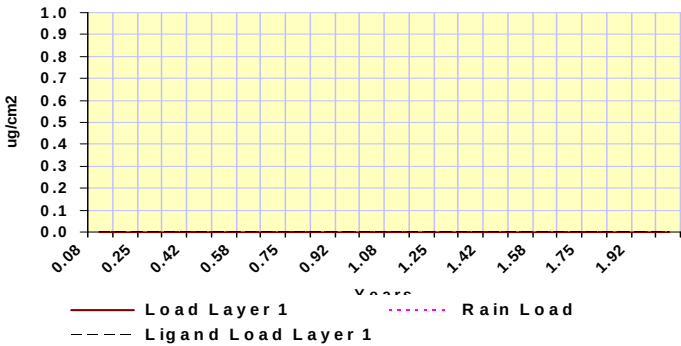
Output File: LEAD SESOIL RUN
C:\SEV7 WIN7\S01.OUT

Chemical File: Benzo(a)pyrene
C:\SEV7 WIN7\BENZO(A)PYRENE.CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec
C:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters
C:\SEV7 WIN7\AOC8B-BAP_NEWEST.APL

Sublayer Loads	1	2	3	4	5	6	7	8	9	10
Layer 1 (ug/g)	2.10E+01	1.80E+01	1.30E+01	2.70E+00						
Layer 2 (ug/g)	2.70E+00	2.70E+00	4.90E-01	7.40E+00						
Layer 3 (ug/g)	5.20E-01	2.60E+00	6.50E+00							
Layer 4 (ug/g)	5.40E-01	5.40E-01	5.40E-01	5.40E-01	5.40E-01	5.40E-01	5.40E-01	5.40E-01		



SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet								
1	4	122.0	4.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	4	122.0	4.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	3	91.4	3.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	4	30.5	1.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters

Bulk Density (g/cm ³)	1.50
Effective Porosity (fraction)	0.30
Soil Pore Disconnectedness	3.70

Application Parameters

Area	cm ²	6.37E+7
	ft ²	6.85E+4
Latitude	degrees	40.3
Spill Index		1

Chemical Parameters

Water Solubility (µg/mL)	1.62E-3	Moles Ligand / Moles Chemical	0.00
Henry's Law (M ³ atm/mol)	1.13E-6	Ligand Molecular Weight (g/mol)	0.00
K _{oc} Adsorp (µg/g)/(µg/mL)	1020000	K _{oc} Dedsorp (µg/g)/(µg/mL)	0.00
K _d Adsorp (µg/g)/(µg/mL)	0.00	K _d Dedsorp (µg/g)/(µg/mL)	0.00
Valence (g/mole)	0.00	Ligand Dissociation Constant	0.00
Air Diffusion (cm ² /sec)	4.30E-2	Base Hydrolysis Rate(L/mol/day)	0.00
Water Diffusion (cm ² /sec)	9.00E-6	Neutral Hydrolysis (L/mol/day)	0.00
Molecular Weight (g/mol)	252.00	Acid Hydrolysis (L/mol/day)	0.00

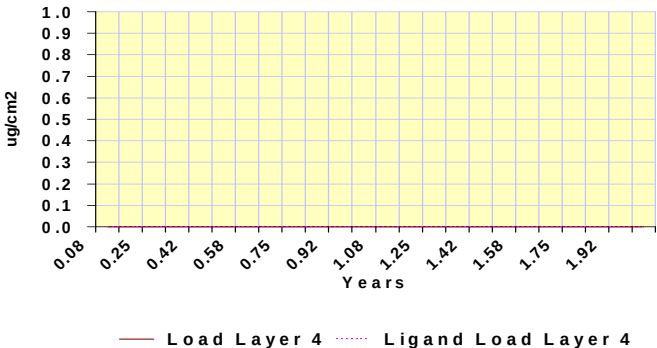
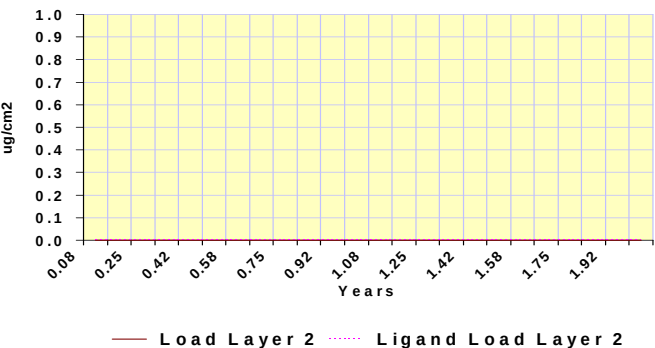
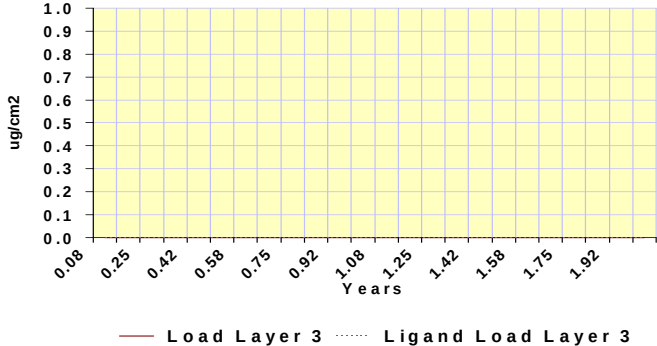
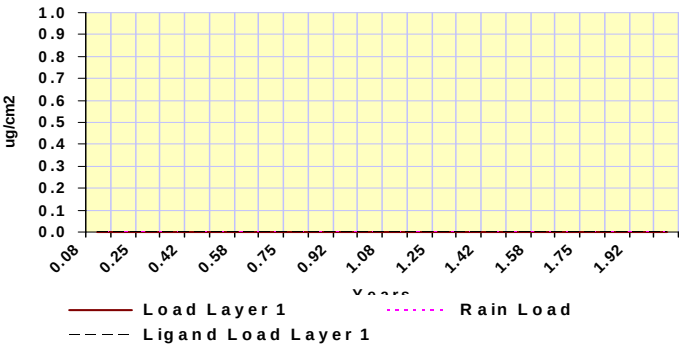
Output File: LEAD SESOIL RUN
C:\SEV7 WIN7\S01.OUT

Chemical File: Benzo(a)pyrene
C:\SEV7 WIN7\BENZO(A)PYRENE.CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec
C:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters
C:\SEV7 WIN7\AOC8B-BAP_NEWEST.APL

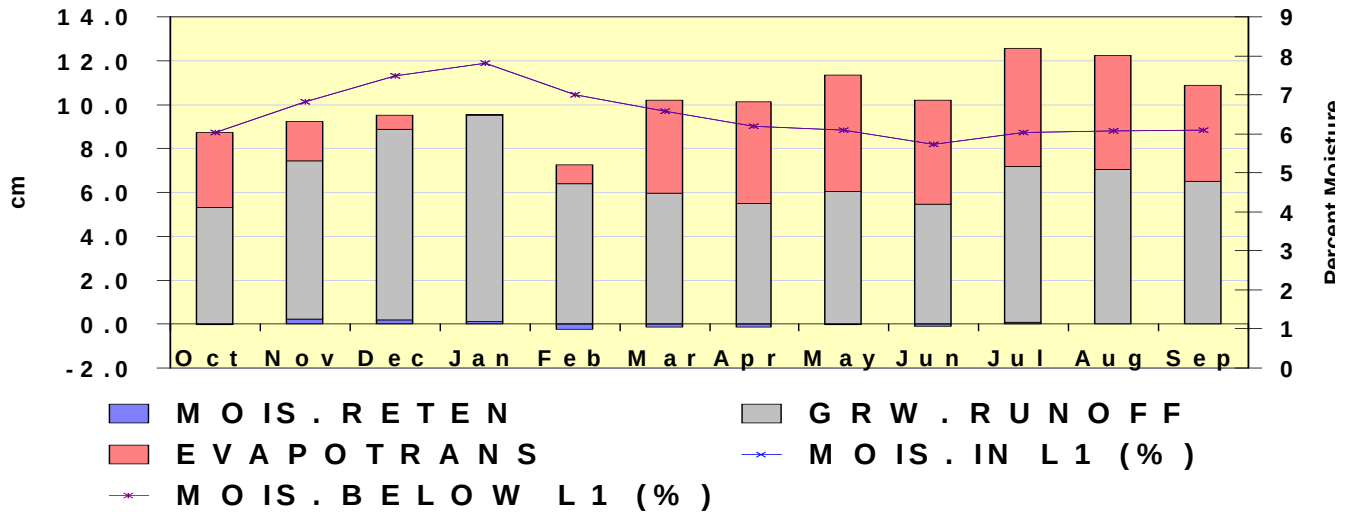
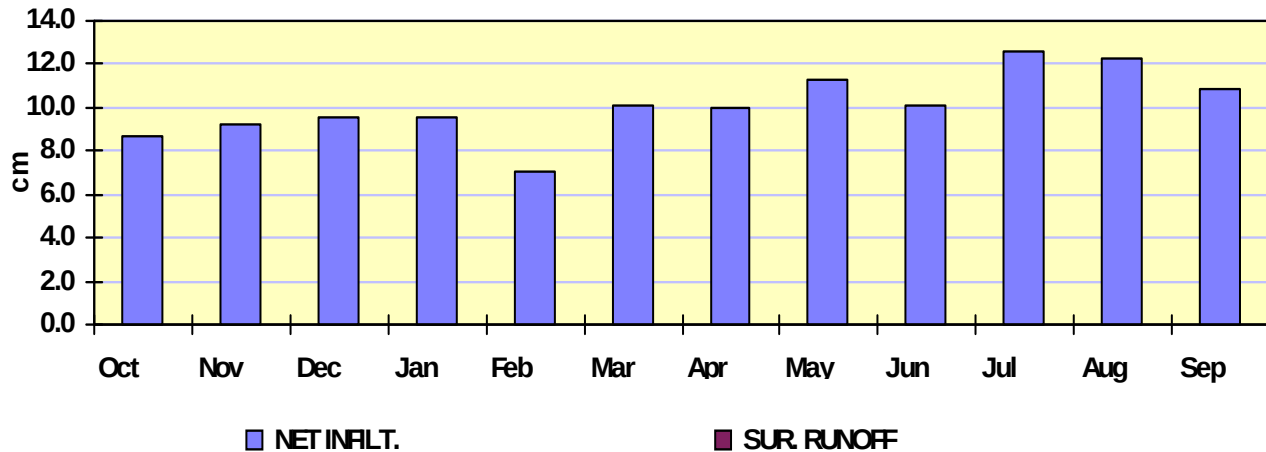
Sublayer Loads	1	2	3	4	5	6	7	8	9	10
Layer 1 (ug/g)	2.10E+01	1.80E+01	1.30E+01	2.70E+00						
Layer 2 (ug/g)	2.70E+00	2.70E+00	4.90E-01	7.40E+00						
Layer 3 (ug/g)	5.20E-01	2.60E+00	6.50E+00							
Layer 4 (ug/g)	5.40E-01	5.40E-01	5.40E-01	5.40E-01						



SESOIL Hydrologic Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: C:\SEV7 WIN7\S01.OUT



	Surface Water Runoff		Net Infiltration		Evapotranspiration		Soil Moisture Retention		Groundwater Runoff (Recharge)		Soil Moisture	
	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Layer 1 Percent	Below Layer 1 Percent
October	0.00	0.00	8.73	3.44	3.44	1.35	-0.02	-0.01	5.31	2.09	6.04	6.04
November	0.00	0.00	9.24	3.64	1.82	0.72	0.24	0.09	7.19	2.83	6.82	6.82
December	0.00	0.00	9.51	3.74	0.64	0.25	0.20	0.08	8.67	3.41	7.48	7.48
January	0.00	0.00	9.55	3.76	0.03	0.01	0.10	0.04	9.43	3.71	7.81	7.81
February	0.00	0.00	7.01	2.76	0.87	0.34	-0.25	-0.10	6.39	2.52	7.00	7.00
March	0.00	0.00	10.06	3.96	4.21	1.66	-0.13	-0.05	5.98	2.35	6.58	6.58
April	0.00	0.00	10.01	3.94	4.63	1.82	-0.12	-0.05	5.50	2.17	6.19	6.19
May	0.00	0.00	11.32	4.46	5.30	2.09	-0.03	-0.01	6.05	2.38	6.10	6.10
June	0.00	0.00	10.08	3.97	4.72	1.86	-0.11	-0.04	5.47	2.15	5.74	5.74
July	0.00	0.00	12.58	4.95	5.40	2.13	0.09	0.04	7.09	2.79	6.04	6.04
August	0.00	0.00	12.23	4.81	5.18	2.04	0.01	0.00	7.04	2.77	6.07	6.07
September	0.00	0.00	10.89	4.29	4.37	1.72	0.01	0.00	6.51	2.56	6.10	6.10
Total	0.00	0.00	121.21	47.72	40.59	15.98	0.00	0.00	80.61	31.74	--	--

SESOIL Pollutant Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: C:\SEV7 WIN7\S01.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	1.922E+06	0.00
In Soil Air	3.117E+02	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	8.551E+10	37.57
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	1.416E+11	62.23
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	1.704E+06	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	5.550E+07	0.02
Total Output	2.272E+11	99.83
Total Input	2.276E+11	
Input - Output	3.901E+08	

Maximum leachate concentration: 3.949E-04 mg/l

Climate File: TRENTON

C:\SEV7 WIN7\TRENTON.CLM

Chemical File: Benzo(a)pyrene

C:\SEV7 WIN7\BENZO(A)PYRENE.CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec

C:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters

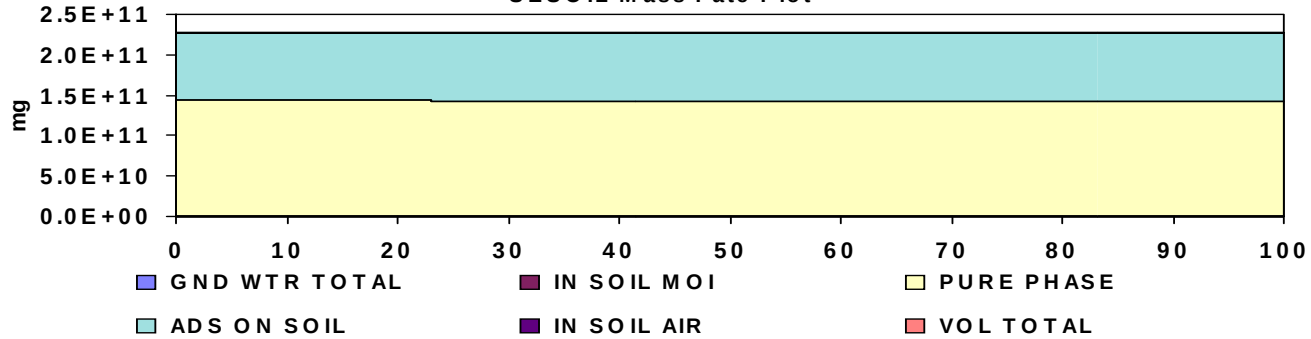
C:\SEV7 WIN7\AOC8B-BAP_NEWEST.APL

Starting Depth: 363.90 cm

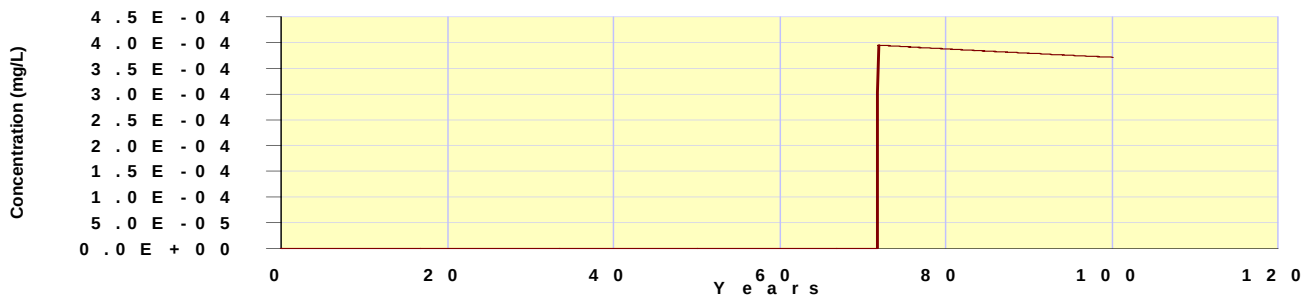
Ending Depth: 365.80 cm

Total Depth: 365.90 cm

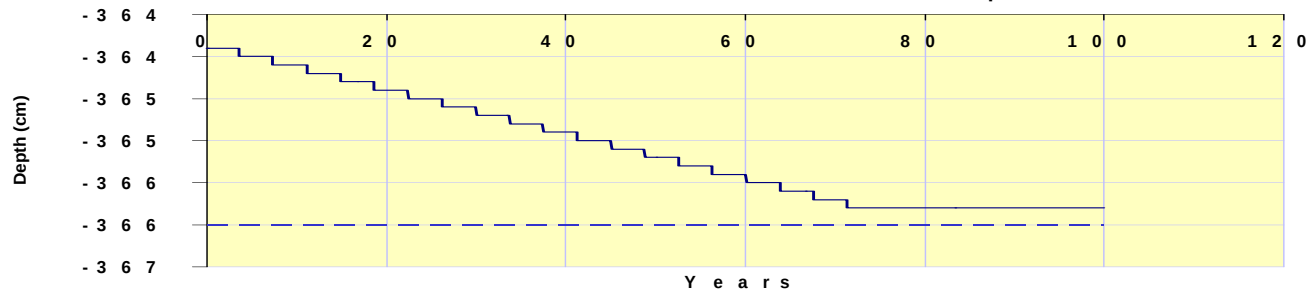
SESOIL Mass Fate Plot



Leachate Concentration



Contaminant Depth Plot



SESOIL Pollutant Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: C:\SEV7 WIN7\S01.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	1.922E+06	0.00
In Soil Air	3.119E+02	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	8.557E+10	37.60
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	1.416E+11	62.23
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	1.705E+06	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	2.272E+11	99.83
Total Input	2.276E+11	
Input - Output	3.906E+08	

Maximum leachate concentration: 0.000E+00 mg/l

Climate File: TRENTON

C:\SEV7 WIN7\TRENTON.CLM

Chemical File: Benzo(a)pyrene

C:\SEV7 WIN7\BENZO(A)PYRENE.CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec

C:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters

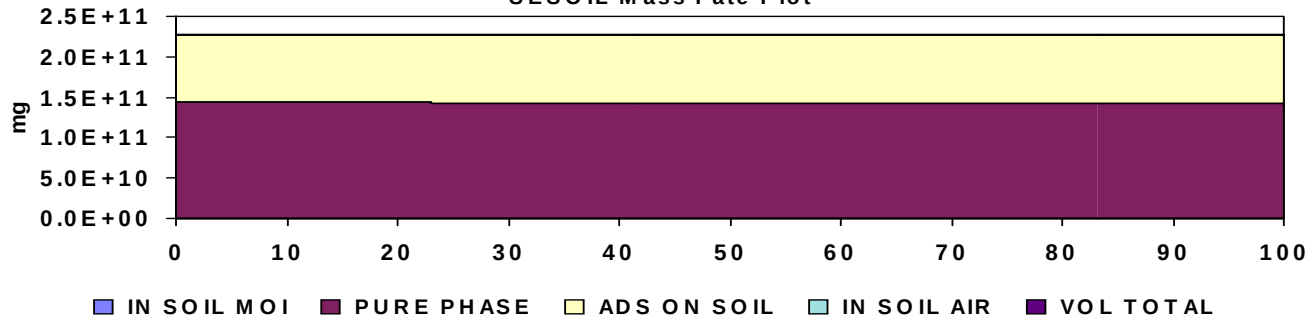
C:\SEV7 WIN7\AOC8B-BAP_NEWEST.APL

Starting Depth: 362.00 cm

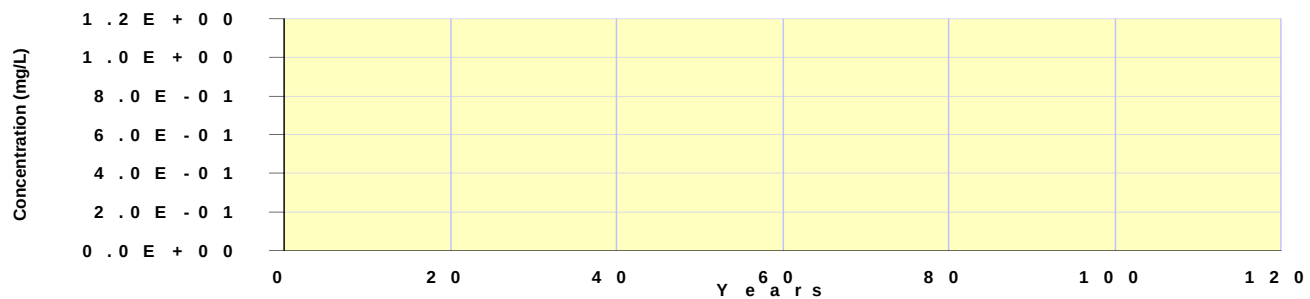
Ending Depth: 364.60 cm

Total Depth: 365.90 cm

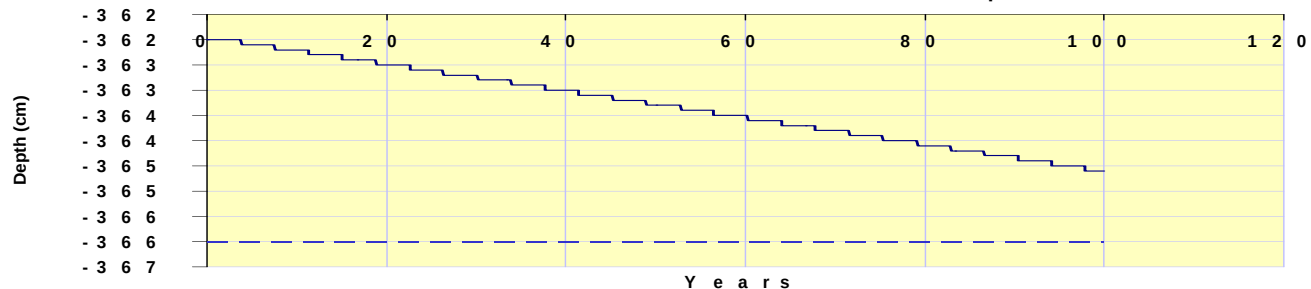
SESOIL Mass Fate Plot



Leachate Concentration



Contaminant Depth Plot

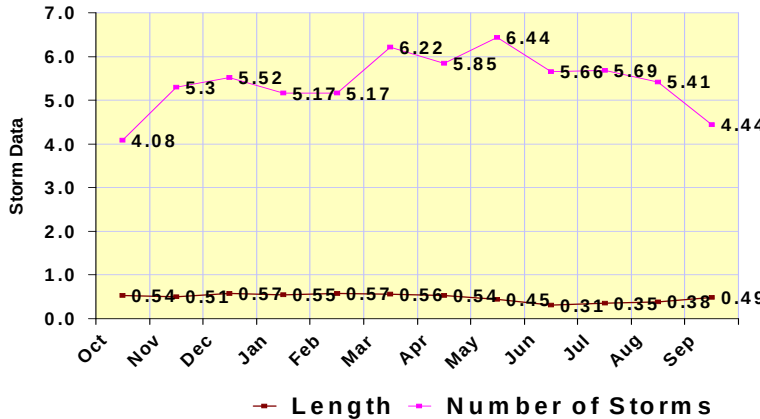
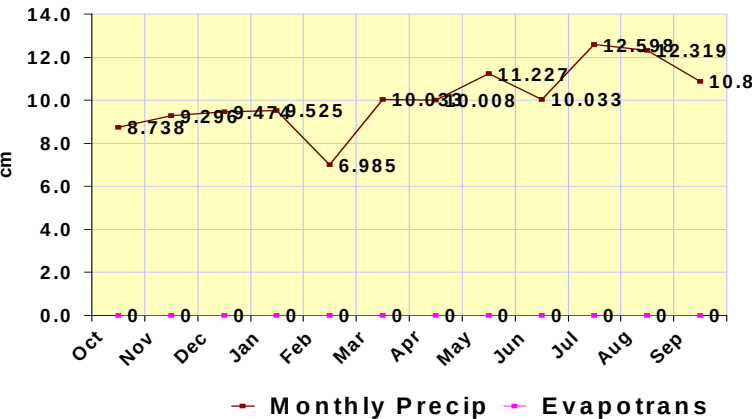
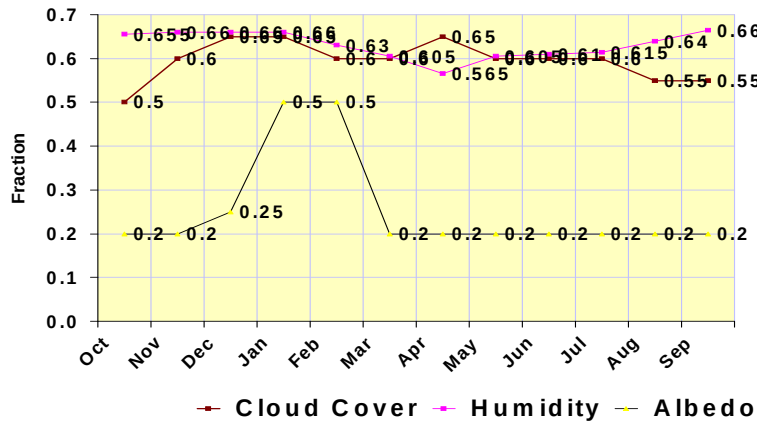
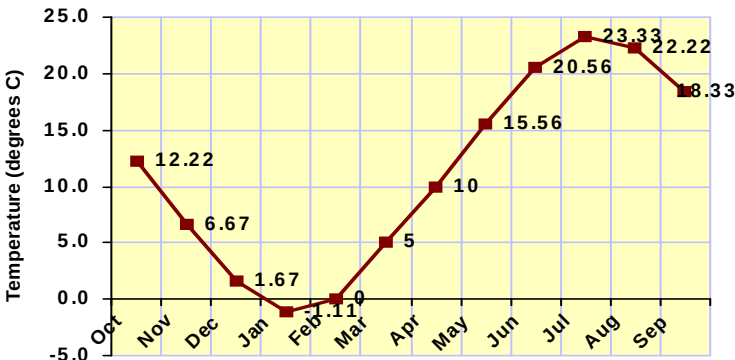


Climate Report

Location Description: TRENTON

Climatic Input File: c:\SEV7 WIN7\TRENTON.CLM

Month	Temperature		Precipitation		Evapotranspiration Rate		Storms		Cloud Cover	Albedo	Humidity
Units	°C	°F	cm	Inches	cm	Inches	# per Month	Length Days	Fraction	Fraction	Fraction
October	12.22	54.00	8.738	3.44	0.00	0.00	4.08	0.540	0.500	0.200	0.655
November	6.67	44.01	9.296	3.66	0.00	0.00	5.30	0.510	0.600	0.200	0.660
December	1.67	35.01	9.474	3.73	0.00	0.00	5.52	0.570	0.650	0.250	0.660
January	-1.11	30.00	9.525	3.75	0.00	0.00	5.17	0.550	0.650	0.500	0.660
February	0.00	32.00	6.985	2.75	0.00	0.00	5.17	0.570	0.600	0.500	0.630
March	5.00	41.00	10.033	3.95	0.00	0.00	6.22	0.560	0.600	0.200	0.605
April	10.00	50.00	10.008	3.94	0.00	0.00	5.85	0.540	0.650	0.200	0.565
May	15.56	60.01	11.227	4.42	0.00	0.00	6.44	0.450	0.600	0.200	0.605
June	20.56	69.01	10.033	3.95	0.00	0.00	5.66	0.310	0.600	0.200	0.610
July	23.33	73.99	12.598	4.96	0.00	0.00	5.69	0.350	0.600	0.200	0.615
August	22.22	72.00	12.319	4.85	0.00	0.00	5.41	0.380	0.550	0.200	0.640
September	18.33	64.99	10.871	4.28	0.00	0.00	4.44	0.490	0.550	0.200	0.665
Total			121.11	47.68	0.00	0.00					



SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet								
1	8	244.0	8.01	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	8	30.5	1.00	1.00E-8	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3		0.0	0.00	1.00E-8	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00
4		0.0	0.00	1.00E-8	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00

Soil Parameters

Bulk Density (g/cm ³)	1.50
Effective Porosity (fraction)	0.30
Soil Pore Disconnectedness	3.70

Chemical Parameters

Water Solubility (µg/mL)	1.62E-3	Moles Ligand / Moles Chemical	0.00
Henry's Law (M ³ atm/mol)	1.13E-6	Ligand Molecular Weight (g/mol)	0.00
K _{oc} Adsorp (µg/g)/(µg/mL)	1020000	K _{oc} Dedsorp (µg/g)/(µg/mL)	0.00
K _d Adsorp (µg/g)/(µg/mL)	0.00	K _d Dedsorp (µg/g)/(µg/mL)	0.00
Valence (g/mole)	0.00	Ligand Dissociation Constant	0.00
Air Diffusion (cm ² /sec)	4.30E-2	Base Hydrolysis Rate(L/mol/day)	0.00
Water Diffusion (cm ² /sec)	9.00E-6	Neutral Hydrolysis (L/mol/day)	0.00
Molecular Weight (g/mol)	252.00	Acid Hydrolysis (L/mol/day)	0.00

Application Parameters

Area	cm ²	8.72E+7
	ft ²	9.38E+4
Latitude	degrees	40.3
Spill Index		1

Output File: LEAD SESOIL RUN
c:\SEV7 WIN7\S01.OUT

Chemical File: Benzo(a)pyrene, NJDEP
c:\sev7 win7\BENZO(A)PYRENE NJDEP.CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec
c:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters
C:\SEV7 WIN7\AOC10-BAP_NEWEST.APL

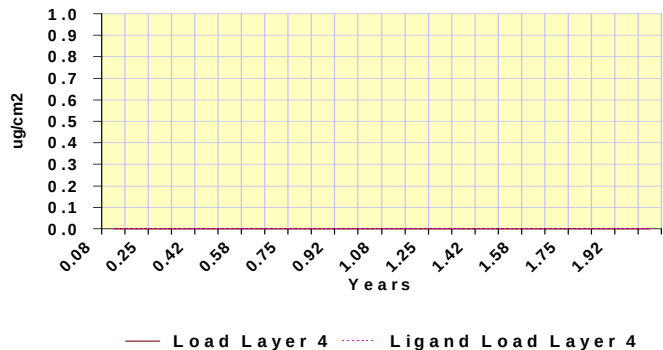
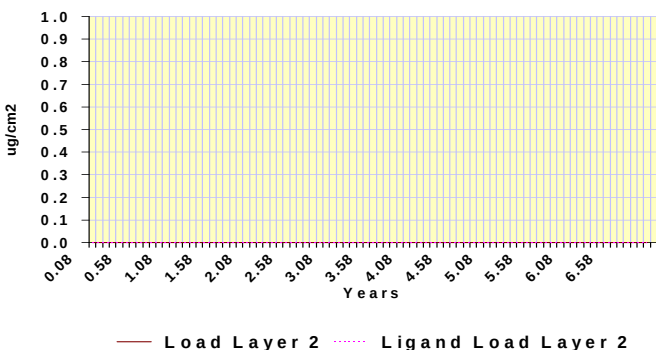
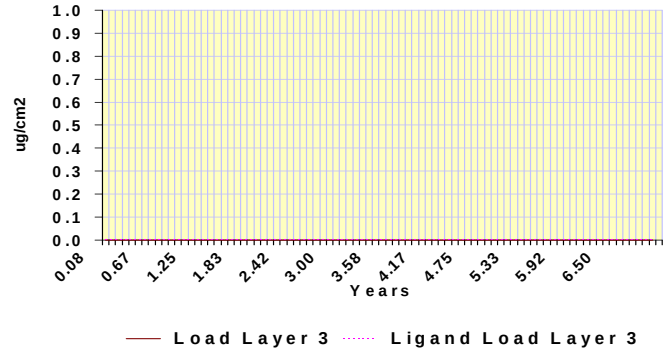
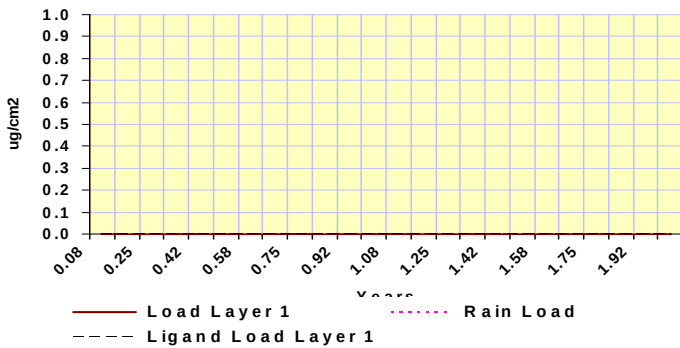
Sublayer Loads 1 2 3 4 5 6 7 8 9 10

Layer 1 (ug/g) 1.20E+01 6.10E+00 1.40E+00 1.40E+00 4.40E+00 1.10E+00 1.60E+01 3.00E+00

Layer 2 (ug/g) 1.80E+00 1.80E+00 1.80E+00 1.80E+00

Layer 3 (ug/g)

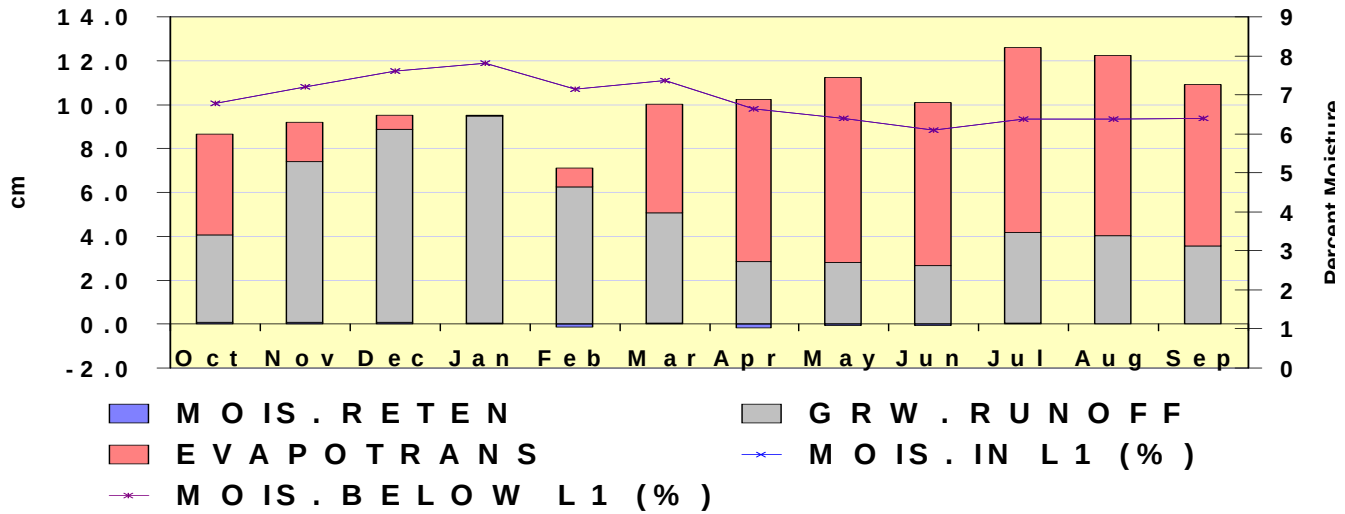
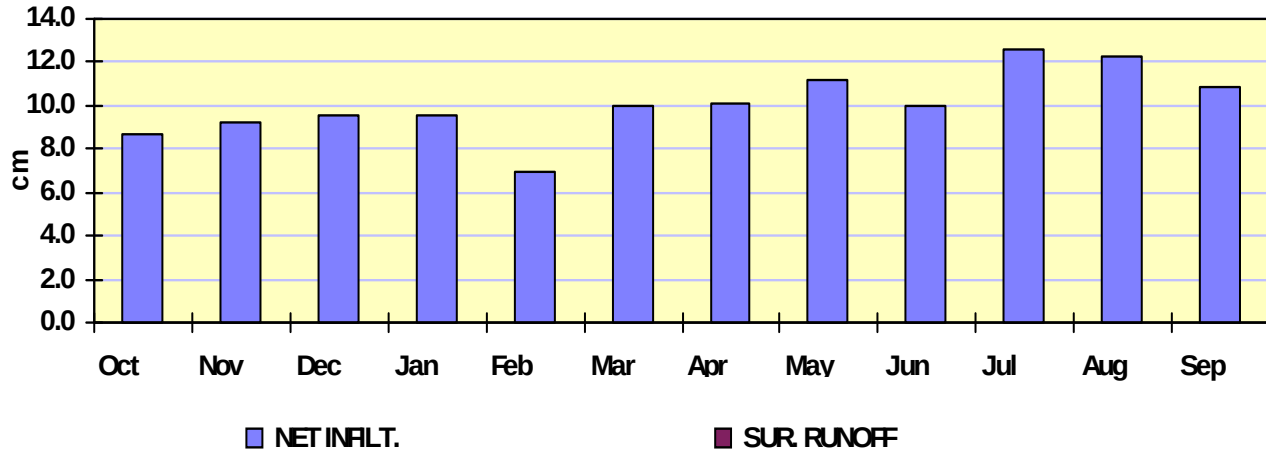
Layer 4 (ug/g)



SESOIL Hydrologic Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: c:\SEV7 WIN7\S01.OUT



	Surface Water Runoff		Net Infiltration		Evapotranspiration		Soil Moisture Retention		Groundwater Runoff (Recharge)		Soil Moisture	
	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Layer 1 Percent	Below Layer 1 Percent
October	0.00	0.00	8.66	3.41	4.58	1.80	0.09	0.04	3.99	1.57	6.79	6.79
November	0.00	0.00	9.20	3.62	1.82	0.72	0.10	0.04	7.29	2.87	7.21	7.21
December	0.00	0.00	9.50	3.74	0.64	0.25	0.09	0.04	8.78	3.46	7.60	7.60
January	0.00	0.00	9.50	3.74	0.03	0.01	0.05	0.02	9.43	3.71	7.81	7.81
February	0.00	0.00	6.98	2.75	0.87	0.34	-0.15	-0.06	6.26	2.46	7.15	7.15
March	0.00	0.00	10.02	3.94	4.94	1.94	0.05	0.02	5.03	1.98	7.36	7.36
April	0.00	0.00	10.07	3.96	7.38	2.91	-0.16	-0.06	2.86	1.13	6.64	6.64
May	0.00	0.00	11.19	4.41	8.44	3.32	-0.05	-0.02	2.80	1.10	6.40	6.40
June	0.00	0.00	10.03	3.95	7.43	2.93	-0.07	-0.03	2.68	1.06	6.10	6.10
July	0.00	0.00	12.60	4.96	8.44	3.32	0.06	0.02	4.10	1.61	6.37	6.37
August	0.00	0.00	12.23	4.81	8.20	3.23	0.00	0.00	4.02	1.58	6.37	6.37
September	0.00	0.00	10.90	4.29	7.35	2.89	0.01	0.00	3.54	1.39	6.40	6.40
Total	0.00	0.00	120.88	47.59	60.10	23.66	0.00	0.00	60.77	23.93	--	--

SESOIL Pollutant Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: c:\SEV7 WIN7\S01.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	2.500E+06	0.00
In Soil Air	3.108E+02	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	8.637E+10	46.79
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	9.800E+10	53.09
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	1.805E+06	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	1.843E+11	99.88
Total Input	1.846E+11	
Input - Output	2.201E+08	

Maximum leachate concentration: 0.000E+00 mg/l

Climate File: TRENTON

c:\SEV7 WIN7\TRENTON.CLM

Chemical File: Benzo(a)pyrene, NJDEP

c:\sev7 win7\BENZO(A)PYRENE NJDEP.CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec

c:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters

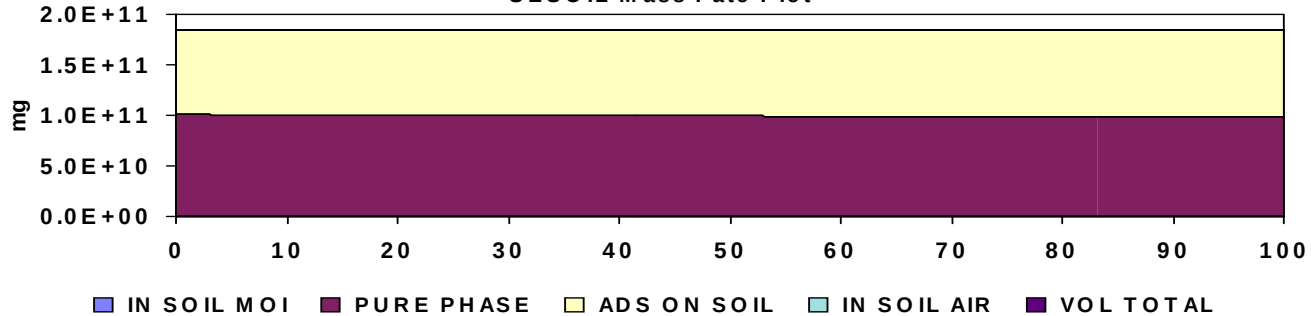
C:\SEV7 WIN7\AOC10-BAP_NEWEST.APL

Starting Depth: 257.20 cm

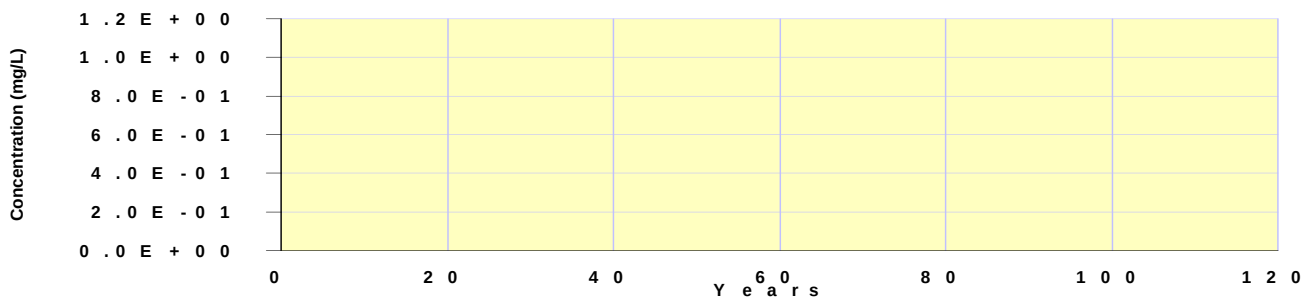
Ending Depth: 259.30 cm

Total Depth: 274.50 cm

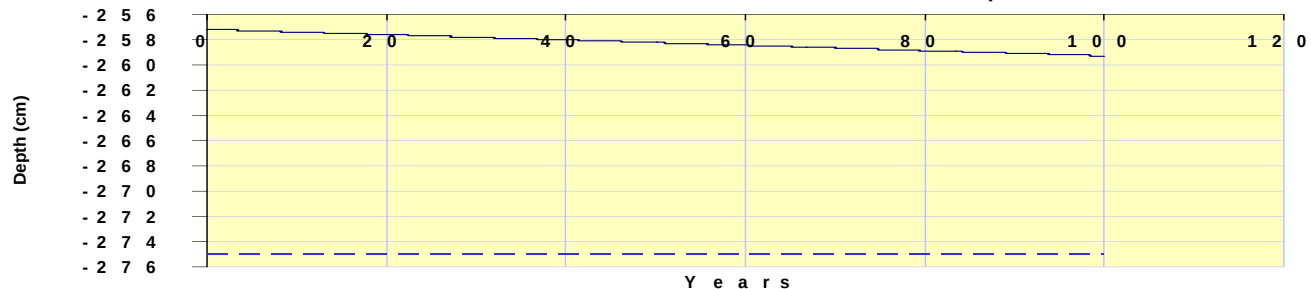
SESOIL Mass Fate Plot



Leachate Concentration



Contaminant Depth Plot

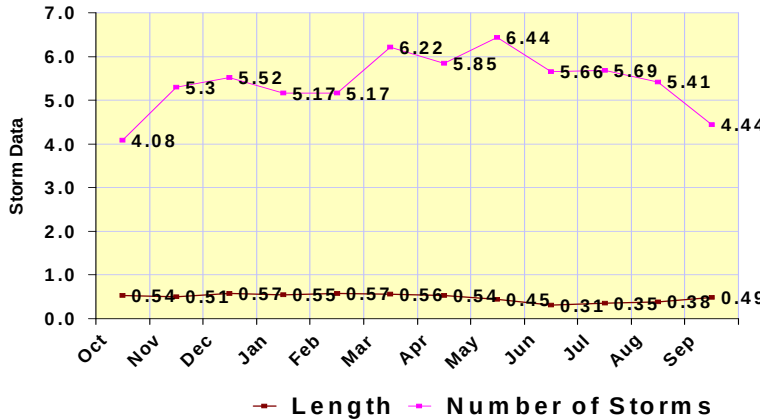
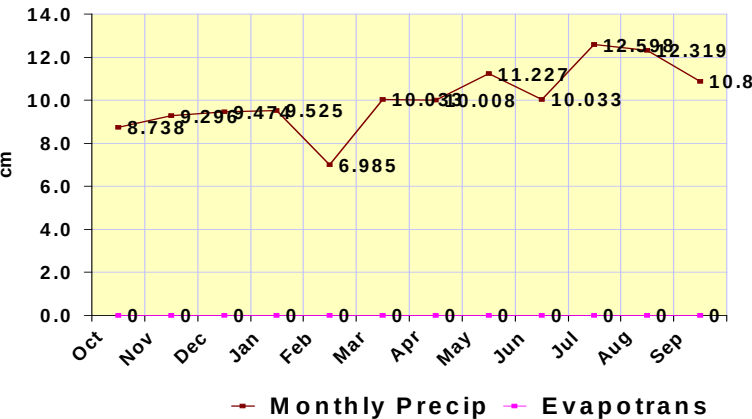
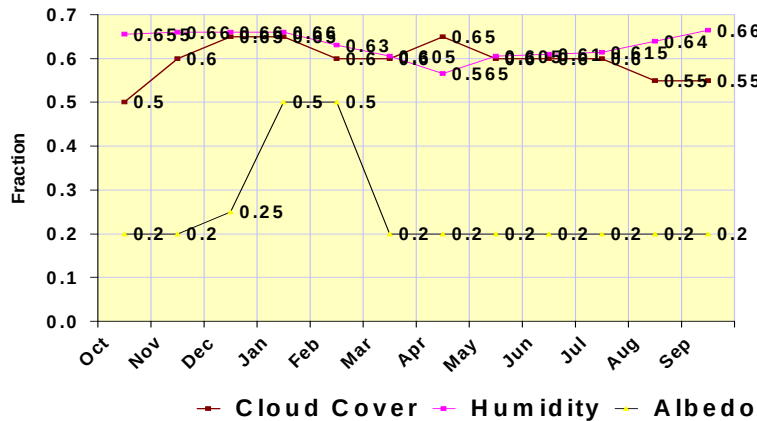
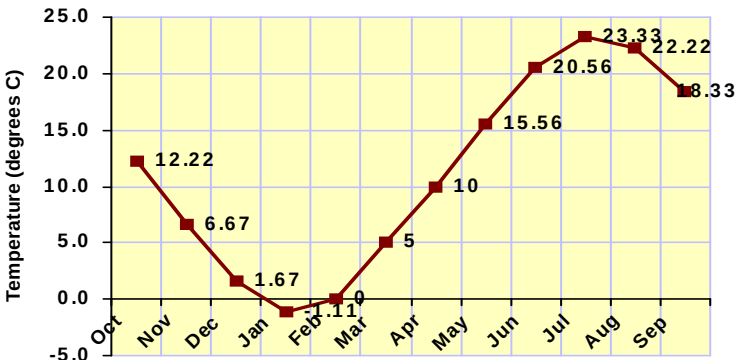


Climate Report

Location Description: TRENTON

Climatic Input File: c:\SEV7 WIN7\TRENTON.CLM

Month	Temperature		Precipitation		Evapotranspiration Rate		Storms		Cloud Cover	Albedo	Humidity
Units	°C	°F	cm	Inches	cm	Inches	# per Month	Length Days	Fraction	Fraction	Fraction
October	12.22	54.00	8.738	3.44	0.00	0.00	4.08	0.540	0.500	0.200	0.655
November	6.67	44.01	9.296	3.66	0.00	0.00	5.30	0.510	0.600	0.200	0.660
December	1.67	35.01	9.474	3.73	0.00	0.00	5.52	0.570	0.650	0.250	0.660
January	-1.11	30.00	9.525	3.75	0.00	0.00	5.17	0.550	0.650	0.500	0.660
February	0.00	32.00	6.985	2.75	0.00	0.00	5.17	0.570	0.600	0.500	0.630
March	5.00	41.00	10.033	3.95	0.00	0.00	6.22	0.560	0.600	0.200	0.605
April	10.00	50.00	10.008	3.94	0.00	0.00	5.85	0.540	0.650	0.200	0.565
May	15.56	60.01	11.227	4.42	0.00	0.00	6.44	0.450	0.600	0.200	0.605
June	20.56	69.01	10.033	3.95	0.00	0.00	5.66	0.310	0.600	0.200	0.610
July	23.33	73.99	12.598	4.96	0.00	0.00	5.69	0.350	0.600	0.200	0.615
August	22.22	72.00	12.319	4.85	0.00	0.00	5.41	0.380	0.550	0.200	0.640
September	18.33	64.99	10.871	4.28	0.00	0.00	4.44	0.490	0.550	0.200	0.665
Total			121.11	47.68	0.00	0.00					



SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet								
1	4	122.0	4.00	1.00E-8	0.20	900.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	4	122.0	4.00	1.00E-8	0.20	900.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	3	91.4	3.00	1.00E-8	0.20	900.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	8	30.5	1.00	1.00E-8	0.20	900.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters

Bulk Density (g/cm ³)	1.50
Effective Porosity (fraction)	0.30
Soil Pore Disconnectedness	3.70

Chemical Parameters

Water Solubility (µg/mL)	1.00E+5	Moles Ligand / Moles Chemical	0.00
Henry's Law (M ³ atm/mol)	0.00	Ligand Molecular Weight (g/mol)	0.00
K _{oc} Adsorp (µg/g)/(µg/mL)	0.00	K _{oc} Dedsorp (µg/g)/(µg/mL)	0.00
K _d Adsorp (µg/g)/(µg/mL)	900.00	K _d Dedsorp (µg/g)/(µg/mL)	0.00
Valence (g/mole)	0.00	Ligand Dissociation Constant	0.00
Air Diffusion (cm ² /sec)	0.00	Base Hydrolysis Rate(L/mol/day)	0.00
Water Diffusion (cm ² /sec)	0.00	Neutral Hydrolysis (L/mol/day)	0.00
Molecular Weight (g/mol)	207.00	Acid Hydrolysis (L/mol/day)	0.00

Application Parameters

Area	cm ²	6.37E+7
	ft ²	6.85E+4
Latitude	degrees	40.3
Spill Index		1

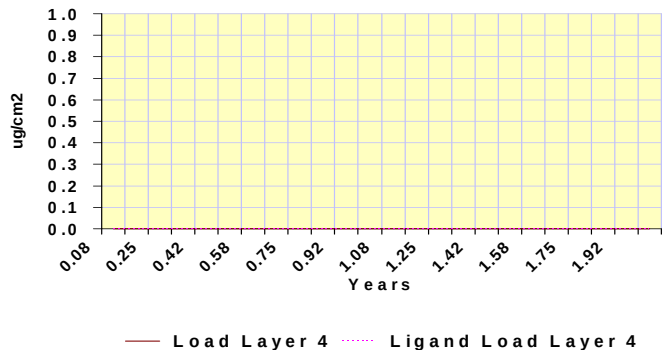
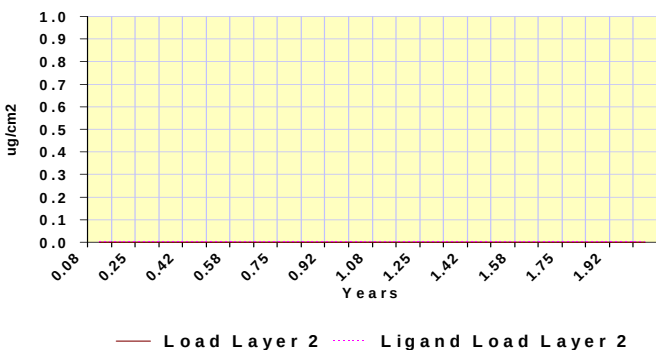
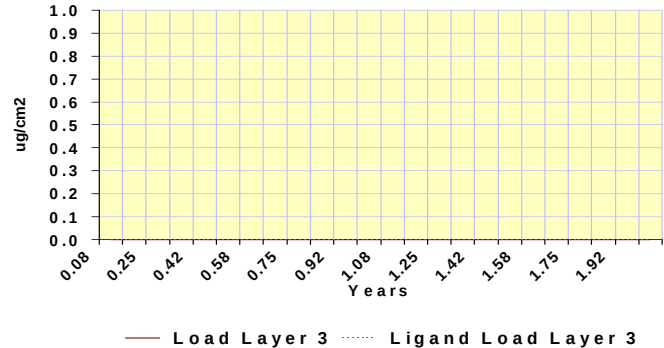
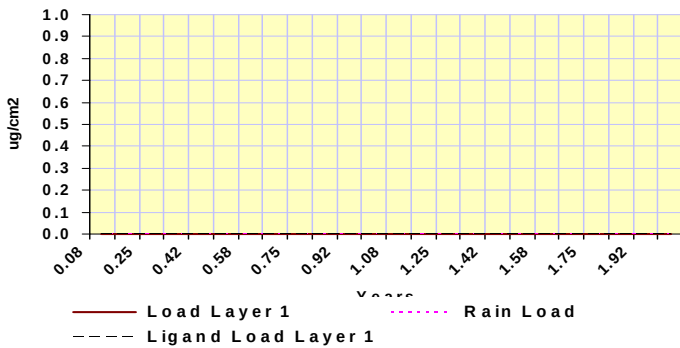
Output File: LEAD SESOIL RUN
c:\SEV7 WIN7\S01.OUT

Chemical File: Lead And Compounds (Kd)
c:\SEV7 WIN7\NJ LEAD AND COMPOUNDS (KD).CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec
c:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters
C:\SEV7 WIN7\AOC8B-LEAD_NEWEST.APL

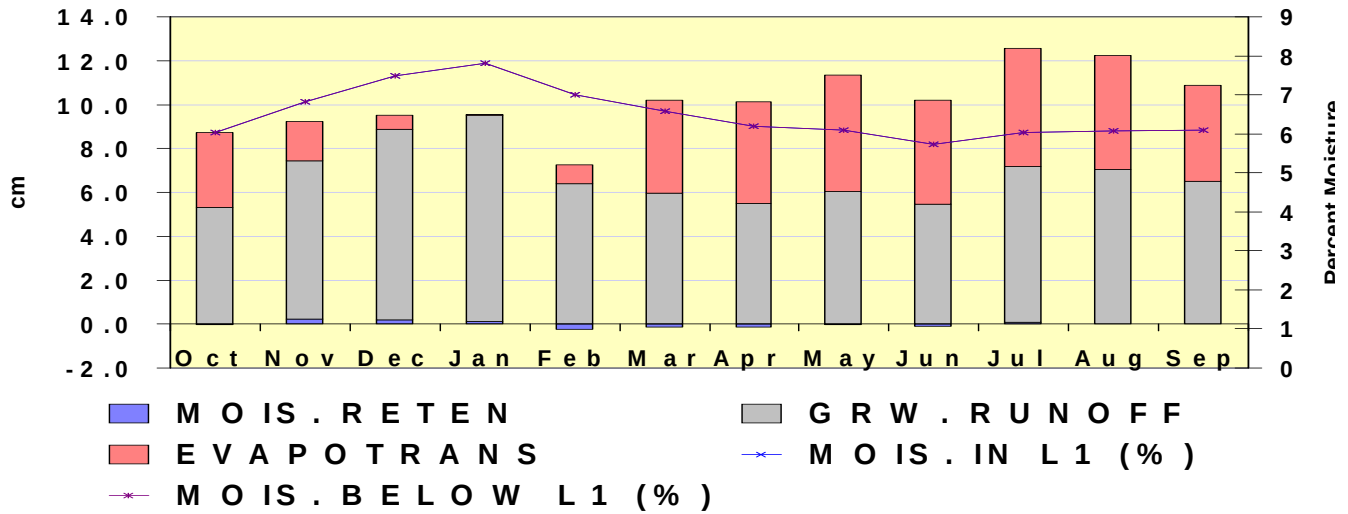
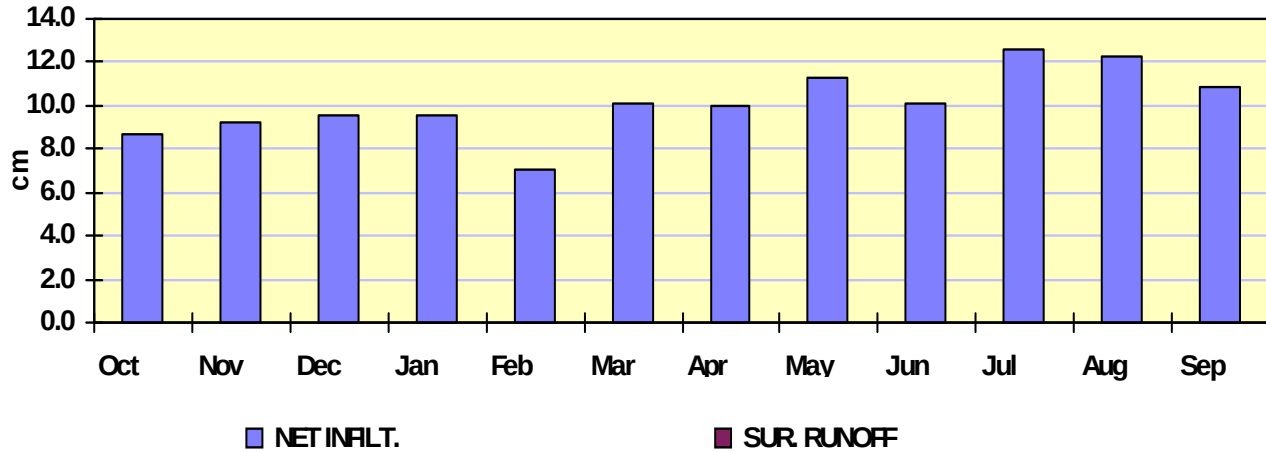
Sublayer Loads	1	2	3	4	5	6	7	8	9	10
Layer 1 (ug/g)	2.89E+02	2.97E+02	2.95E+02	1.10E+03						
Layer 2 (ug/g)	4.36E+02	4.36E+02	7.50E+03	4.70E+03						
Layer 3 (ug/g)	8.60E+02	8.60E+02	9.31E+02							
Layer 4 (ug/g)										



SESOIL Hydrologic Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: c:\SEV7 WIN7\S01.OUT



	Surface Water Runoff		Net Infiltration		Evapotranspiration		Soil Moisture Retention		Groundwater Runoff (Recharge)		Soil Moisture	
	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Layer 1 Percent	Below Layer 1 Percent
October	0.00	0.00	8.73	3.44	3.44	1.35	-0.02	-0.01	5.31	2.09	6.04	6.04
November	0.00	0.00	9.24	3.64	1.82	0.72	0.24	0.09	7.19	2.83	6.82	6.82
December	0.00	0.00	9.51	3.74	0.64	0.25	0.20	0.08	8.67	3.41	7.48	7.48
January	0.00	0.00	9.55	3.76	0.03	0.01	0.10	0.04	9.43	3.71	7.81	7.81
February	0.00	0.00	7.01	2.76	0.87	0.34	-0.25	-0.10	6.39	2.52	7.00	7.00
March	0.00	0.00	10.06	3.96	4.21	1.66	-0.13	-0.05	5.98	2.35	6.58	6.58
April	0.00	0.00	10.01	3.94	4.63	1.82	-0.12	-0.05	5.50	2.17	6.19	6.19
May	0.00	0.00	11.32	4.46	5.30	2.09	-0.03	-0.01	6.05	2.38	6.10	6.10
June	0.00	0.00	10.08	3.97	4.72	1.86	-0.11	-0.04	5.47	2.15	5.74	5.74
July	0.00	0.00	12.58	4.95	5.40	2.13	0.09	0.04	7.09	2.79	6.04	6.04
August	0.00	0.00	12.23	4.81	5.18	2.04	0.01	0.00	7.04	2.77	6.07	6.07
September	0.00	0.00	10.89	4.29	4.37	1.72	0.01	0.00	6.51	2.56	6.10	6.10
Total	0.00	0.00	121.21	47.72	40.59	15.98	0.00	0.00	80.61	31.74	--	--

SESOIL Pollutant Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: c:\SEV7 WIN7\S01.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	0.000E+00	0.00
In Soil Air	0.000E+00	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	5.130E+13	99.50
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	0.000E+00	0.00
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	2.317E+09	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	5.130E+13	99.51
Total Input	5.156E+13	
Input - Output	2.548E+11	

Maximum leachate concentration: 0.000E+00 mg/l

Climate File: TRENTON

c:\SEV7 WIN7\TRENTON.CLM

Chemical File: Lead And Compounds (Kd)

c:\SEV7 WIN7\NJ LEAD AND COMPOUNDS (KD).CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec

c:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters

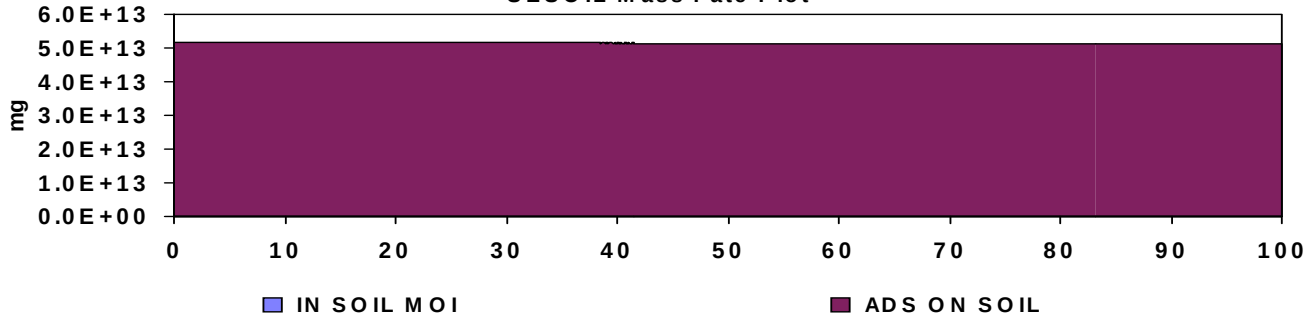
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Starting Depth: 320.00 cm

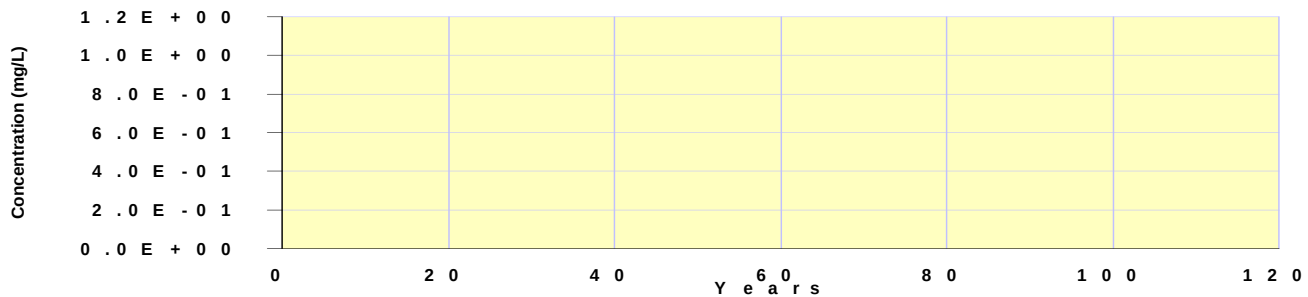
Ending Depth: 326.70 cm

Total Depth: 365.90 cm

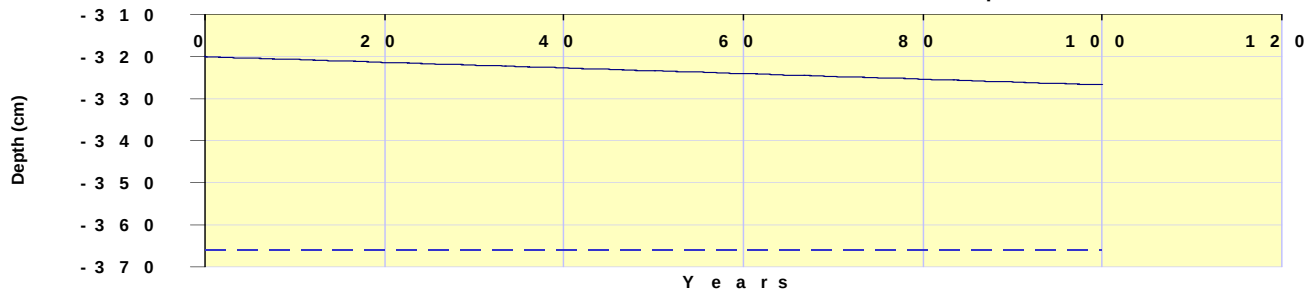
SESOIL Mass Fate Plot



Leachate Concentration



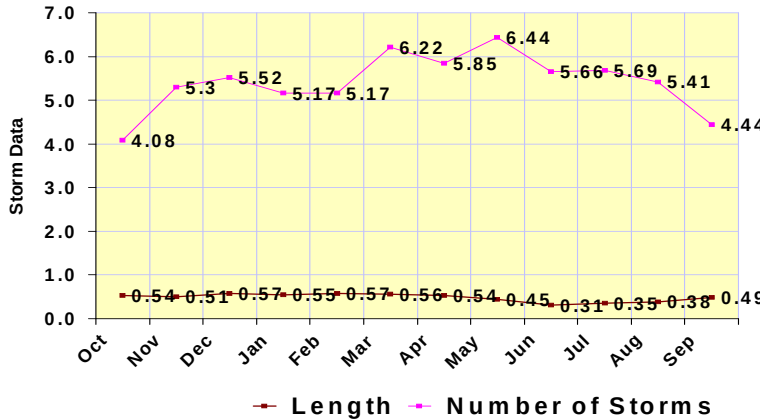
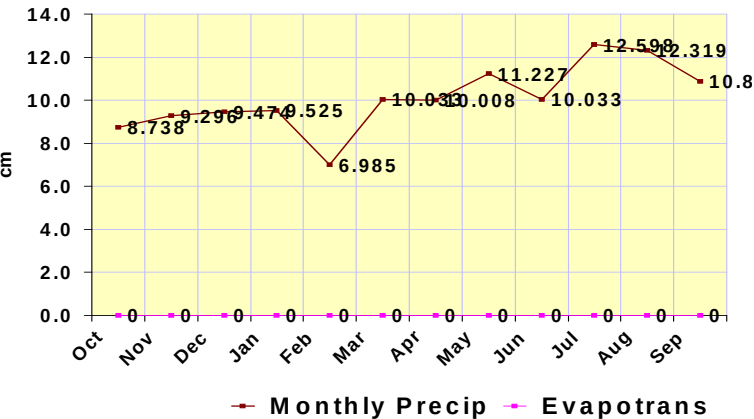
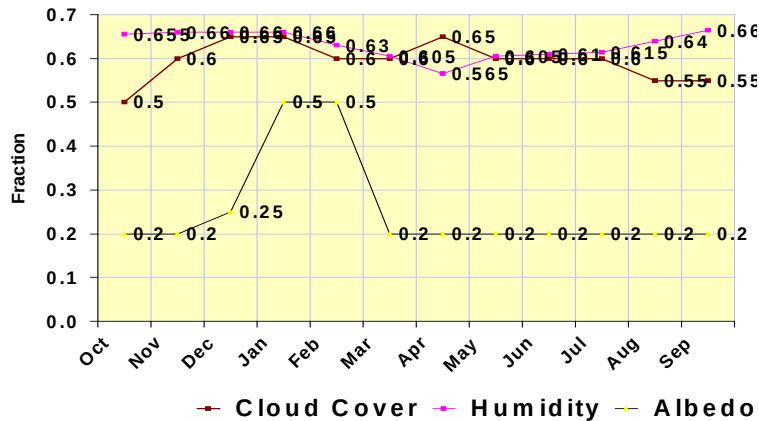
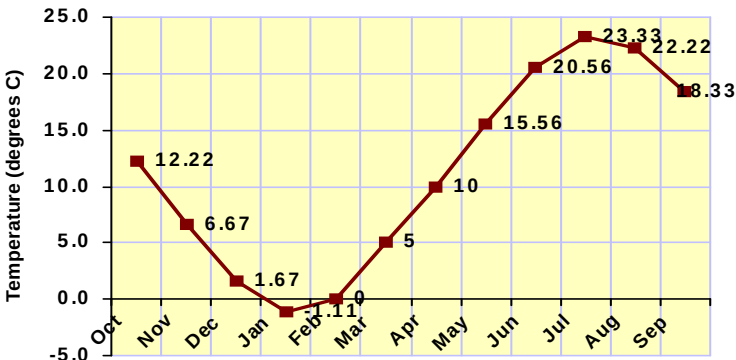
Contaminant Depth Plot



Climate Report

Location Description: TRENTON
Climatic Input File: C:\SEV7 WIN7\TRENTON.CLM

Month	Temperature		Precipitation		Evapotranspiration Rate		Storms		Cloud Cover	Albedo	Humidity
Units	°C	°F	cm	Inches	cm	Inches	# per Month	Length Days	Fraction	Fraction	Fraction
October	12.22	54.00	8.738	3.44	0.00	0.00	4.08	0.540	0.500	0.200	0.655
November	6.67	44.01	9.296	3.66	0.00	0.00	5.30	0.510	0.600	0.200	0.660
December	1.67	35.01	9.474	3.73	0.00	0.00	5.52	0.570	0.650	0.250	0.660
January	-1.11	30.00	9.525	3.75	0.00	0.00	5.17	0.550	0.650	0.500	0.660
February	0.00	32.00	6.985	2.75	0.00	0.00	5.17	0.570	0.600	0.500	0.630
March	5.00	41.00	10.033	3.95	0.00	0.00	6.22	0.560	0.600	0.200	0.605
April	10.00	50.00	10.008	3.94	0.00	0.00	5.85	0.540	0.650	0.200	0.565
May	15.56	60.01	11.227	4.42	0.00	0.00	6.44	0.450	0.600	0.200	0.605
June	20.56	69.01	10.033	3.95	0.00	0.00	5.66	0.310	0.600	0.200	0.610
July	23.33	73.99	12.598	4.96	0.00	0.00	5.69	0.350	0.600	0.200	0.615
August	22.22	72.00	12.319	4.85	0.00	0.00	5.41	0.380	0.550	0.200	0.640
September	18.33	64.99	10.871	4.28	0.00	0.00	4.44	0.490	0.550	0.200	0.665
Total			121.11	47.68	0.00	0.00					



SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet								
1	4	122.0	4.00	5.00E-11	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	4	122.0	4.00	5.00E-11	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	3	91.4	3.00	5.00E-11	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	8	30.5	1.00	5.00E-11	0.20	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters		Chemical Parameters	
Bulk Density (g/cm ³)	1.50	Water Solubility (µg/mL)	1.62E-3
Effective Porosity (fraction)	0.25	Henry's Law (M ³ atm/mol)	1.13E-6
Soil Pore Disconnectedness	12.00	K _{oc} Adsorp (µg/g)/(µg/mL)	1020000
Application Parameters		K _d Adsorp (µg/g)/(µg/mL)	0.00
Area cm ²	6.37E+7	Valence (g/mole)	0.00
ft ²	6.85E+4	Air Diffusion (cm ² /sec)	4.30E-2
Latitude degrees	40.3	Water Diffusion (cm ² /sec)	9.00E-6
Spill Index	1	Molecular Weight (g/mol)	252.00
Output File: LEAD SESOIL RUN		Moles Ligand / Moles Chemical	
C:\SEV7 WIN7\S01.OUT		Ligand Molecular Weight (g/mol)	
Chemical File: Benzo(a)pyrene		K _{oc} Dedsorp (µg/g)/(µg/mL)	
C:\SEV7 WIN7\BENZO(A)PYRENE.CHM		K _d Dedsorp (µg/g)/(µg/mL)	
Soil File: Silt Clay 5.0E-8		Ligand Dissociation Constant	
C:\SEV7 WIN7\SAND.SOI		Base Hydrolysis Rate(L/mol/day)	
Application File: SEVIEW Default Application Parameters		Neutral Hydrolysis (L/mol/day)	
C:\SEV7 WIN7\AOC8B-BAP_NEWEST.APL		Acid Hydrolysis (L/mol/day)	

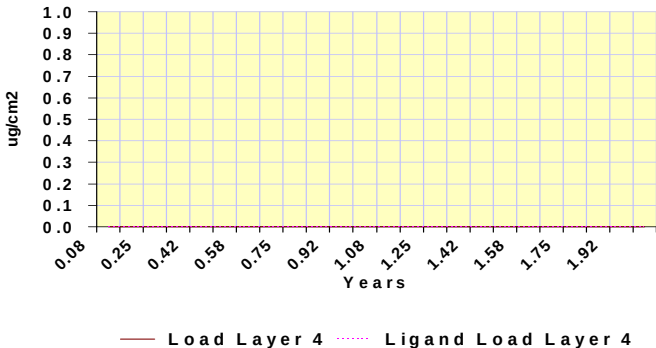
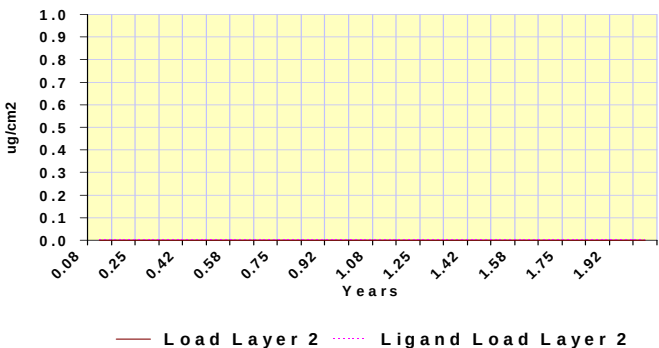
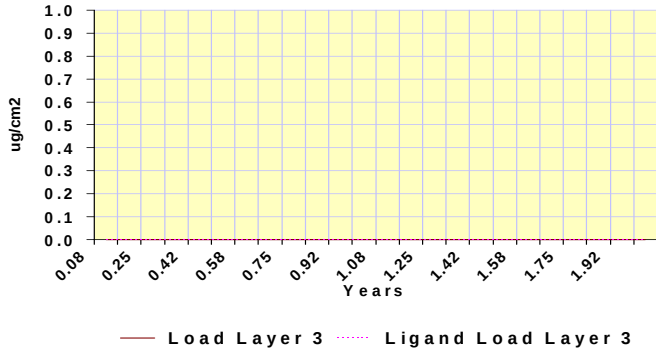
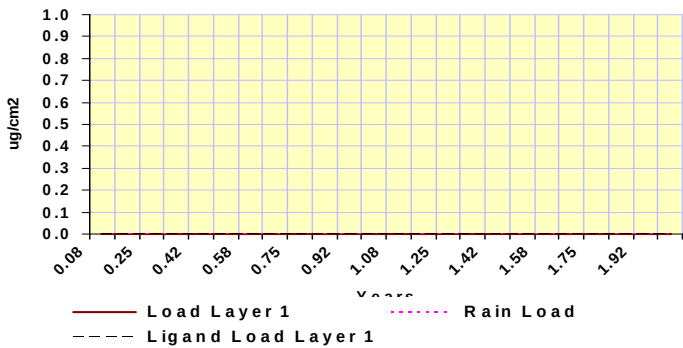
Output File: LEAD SESOIL RUN
C:\SEV7 WIN7\S01.OUT

Chemical File: Benzo(a)pyrene
C:\SEV7 WIN7\BENZO(A)PYRENE.CHM

Soil File: Silt Clay 5.0E-8
C:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters
C:\SEV7 WIN7\AOC8B-BAP_NEWEST.APL

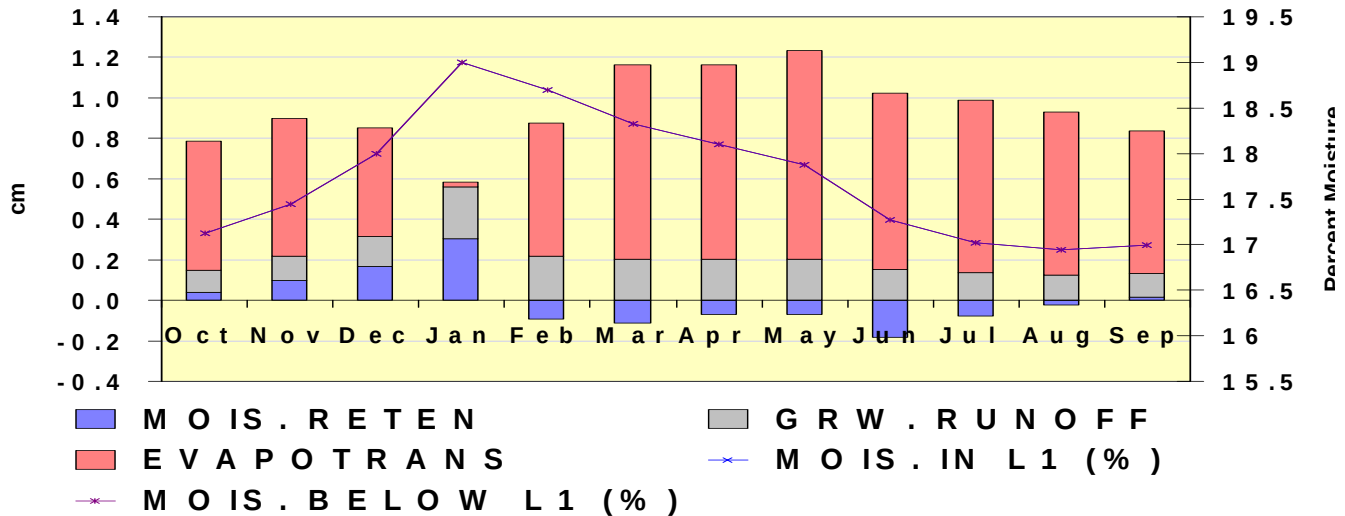
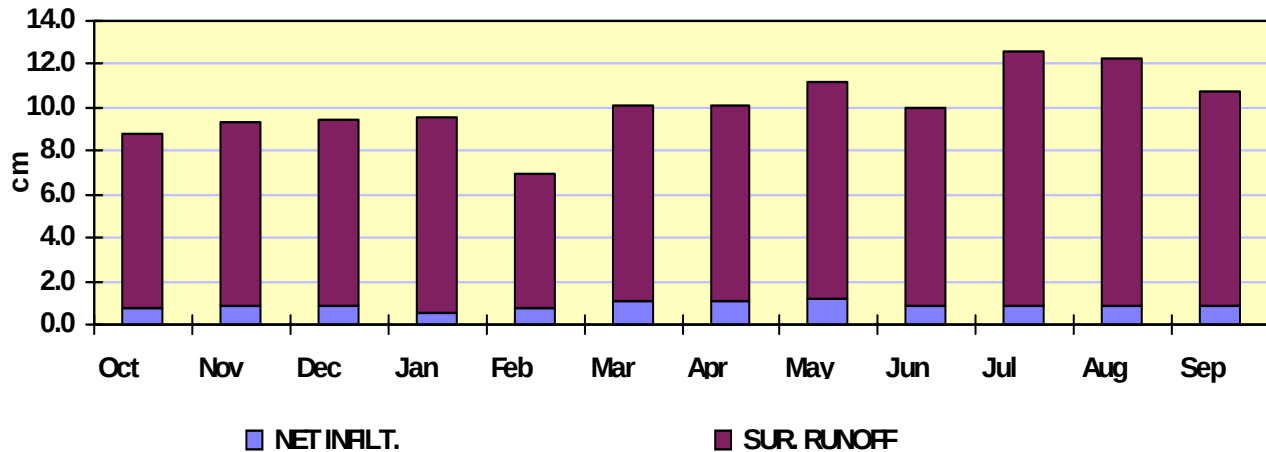
Sublayer Loads	1	2	3	4	5	6	7	8	9	10
Layer 1 (ug/g)	1.57E+02	9.33E+01	1.20E+03	1.20E+03						
Layer 2 (ug/g)	1.20E+03	1.20E+03	1.20E+03	1.20E+03						
Layer 3 (ug/g)	1.20E+03	1.20E+03	1.20E+03							
Layer 4 (ug/g)	7.19E+02	7.19E+02	7.19E+02	7.19E+02	7.19E+02	7.19E+02	7.19E+02	7.19E+02		



SESOIL Hydrologic Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: C:\SEV7 WIN7\SO1.OUT



	Surface Water Runoff		Net Infiltration		Evapotranspiration		Soil Moisture Retention		Groundwater Runoff (Recharge)		Soil Moisture	
	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Layer 1 Percent	Below Layer 1 Percent
Units	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Percent	Percent
October	7.97	3.14	0.79	0.31	0.64	0.25	0.04	0.02	0.11	0.04	17.12	17.12
November	8.45	3.33	0.90	0.35	0.68	0.27	0.10	0.04	0.12	0.05	17.45	17.45
December	8.62	3.39	0.85	0.33	0.54	0.21	0.17	0.07	0.15	0.06	18.00	18.00
January	8.96	3.53	0.58	0.23	0.03	0.01	0.31	0.12	0.25	0.10	19.00	19.00
February	6.15	2.42	0.79	0.31	0.66	0.26	-0.09	-0.04	0.22	0.09	18.70	18.70
March	9.00	3.54	1.05	0.41	0.96	0.38	-0.11	-0.04	0.20	0.08	18.32	18.32
April	9.01	3.55	1.10	0.43	0.96	0.38	-0.07	-0.03	0.20	0.08	18.10	18.10
May	10.04	3.95	1.16	0.46	1.03	0.41	-0.07	-0.03	0.20	0.08	17.87	17.87
June	9.18	3.61	0.84	0.33	0.87	0.34	-0.18	-0.07	0.15	0.06	17.27	17.27
July	11.66	4.59	0.91	0.36	0.85	0.33	-0.08	-0.03	0.14	0.06	17.02	17.02
August	11.35	4.47	0.91	0.36	0.80	0.31	-0.02	-0.01	0.13	0.05	16.95	16.95
September	9.95	3.92	0.84	0.33	0.70	0.28	0.02	0.01	0.12	0.05	17.00	17.00
Total	110.35	43.44	10.71	4.22	8.72	3.43	0.00	0.00	1.99	0.78	--	--

SESOIL Pollutant Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: C:\SEV7 WIN7\S01.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	5.669E+04	0.00
In Soil Air	1.410E+02	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	1.154E+11	0.34
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	3.415E+13	99.65
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	6.415E+06	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	3.427E+13	99.98
Total Input	3.428E+13	
Input - Output	5.794E+09	

Maximum leachate concentration: 0.000E+00 mg/l

Climate File: TRENTON

C:\SEV7 WIN7\TRENTON.CLM

Chemical File: Benzo(a)pyrene

C:\SEV7 WIN7\BENZO(A)PYRENE.CHM

Soil File: Silt Clay 5.0E-8

C:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters

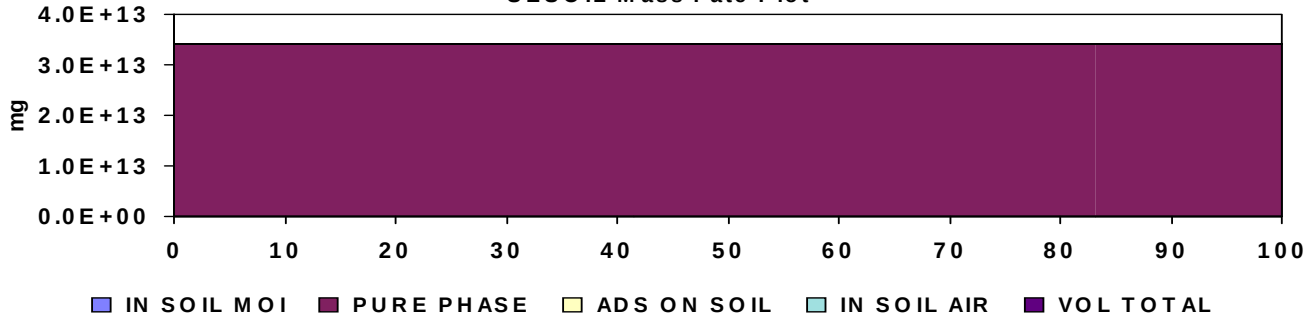
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Starting Depth: 363.90 cm

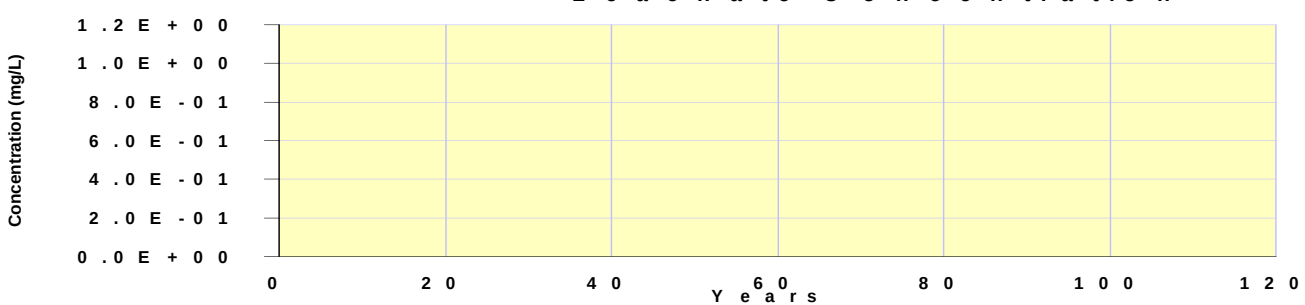
Ending Depth: 363.90 cm

Total Depth: 365.90 cm

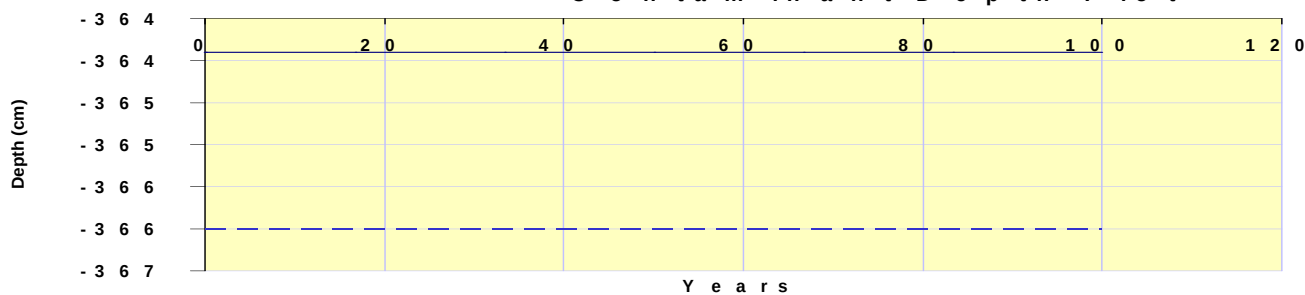
SESOIL Mass Fate Plot



Leachate Concentration



Contaminant Depth Plot

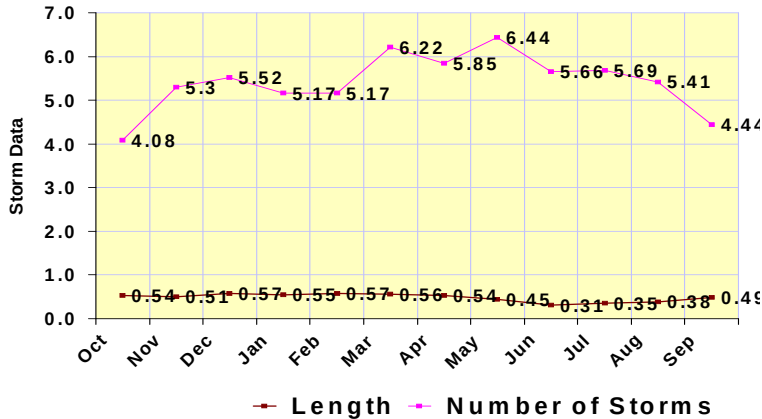
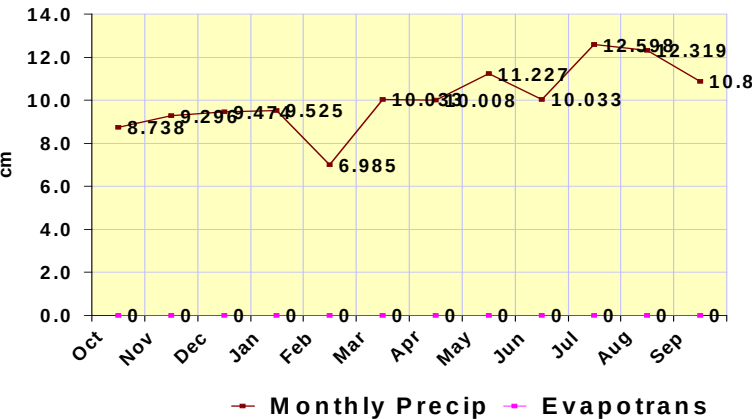
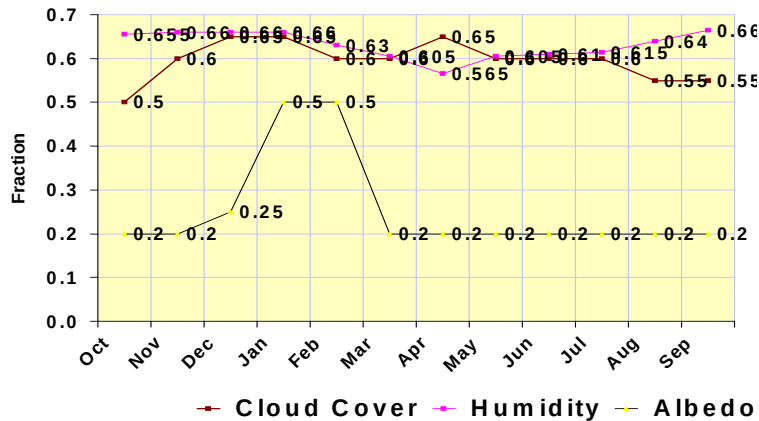
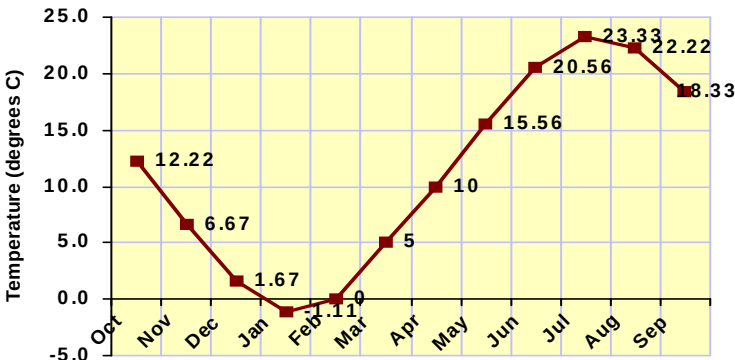


Climate Report

Location Description: TRENTON

Climatic Input File: c:\SEV7 WIN7\TRENTON.CLM

Month	Temperature		Precipitation		Evapotranspiration Rate		Storms		Cloud Cover	Albedo	Humidity
Units	°C	°F	cm	Inches	cm	Inches	# per Month	Length Days	Fraction	Fraction	Fraction
October	12.22	54.00	8.738	3.44	0.00	0.00	4.08	0.540	0.500	0.200	0.655
November	6.67	44.01	9.296	3.66	0.00	0.00	5.30	0.510	0.600	0.200	0.660
December	1.67	35.01	9.474	3.73	0.00	0.00	5.52	0.570	0.650	0.250	0.660
January	-1.11	30.00	9.525	3.75	0.00	0.00	5.17	0.550	0.650	0.500	0.660
February	0.00	32.00	6.985	2.75	0.00	0.00	5.17	0.570	0.600	0.500	0.630
March	5.00	41.00	10.033	3.95	0.00	0.00	6.22	0.560	0.600	0.200	0.605
April	10.00	50.00	10.008	3.94	0.00	0.00	5.85	0.540	0.650	0.200	0.565
May	15.56	60.01	11.227	4.42	0.00	0.00	6.44	0.450	0.600	0.200	0.605
June	20.56	69.01	10.033	3.95	0.00	0.00	5.66	0.310	0.600	0.200	0.610
July	23.33	73.99	12.598	4.96	0.00	0.00	5.69	0.350	0.600	0.200	0.615
August	22.22	72.00	12.319	4.85	0.00	0.00	5.41	0.380	0.550	0.200	0.640
September	18.33	64.99	10.871	4.28	0.00	0.00	4.44	0.490	0.550	0.200	0.665
Total			121.11	47.68	0.00	0.00					



SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability	Organic Carbon Content	Adsorption Coefficient	Cation Exchange Capacity	Freundlich Exponent	Solid Phase Degradation Rate	Liquid Phase Degradation Rate	Soil pH
		cm	feet								
1	8	244.0	8.01	1.00E-8	0.20	900.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	8	30.5	1.00	1.00E-8	0.20	900.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3		0.0	0.00	1.00E-8	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00
4		0.0	0.00	1.00E-8	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0.00

Soil Parameters

Bulk Density (g/cm ³)	1.50
Effective Porosity (fraction)	0.30
Soil Pore Disconnectedness	3.70

Chemical Parameters

Water Solubility (µg/mL)	1.00E+5	Moles Ligand / Moles Chemical	0.00
Henry's Law (M ³ atm/mol)	0.00	Ligand Molecular Weight (g/mol)	0.00
K _{oc} Adsorp (µg/g)/(µg/mL)	0.00	K _{oc} Dedsorp (µg/g)/(µg/mL)	0.00
K _d Adsorp (µg/g)/(µg/mL)	900.00	K _d Dedsorp (µg/g)/(µg/mL)	0.00
Valence (g/mole)	0.00	Ligand Dissociation Constant	0.00
Air Diffusion (cm ² /sec)	0.00	Base Hydrolysis Rate(L/mol/day)	0.00
Water Diffusion (cm ² /sec)	0.00	Neutral Hydrolysis (L/mol/day)	0.00
Molecular Weight (g/mol)	207.00	Acid Hydrolysis (L/mol/day)	0.00

Application Parameters

Area	cm ²	8.72E+7
	ft ²	9.38E+4
Latitude	degrees	40.3
Spill Index		1

Output File: LEAD SESOIL RUN
c:\SEV7 WIN7\S01.OUT

Chemical File: Lead And Compounds (Kd)
c:\SEV7 WIN7\NJ LEAD AND COMPOUNDS (KD).CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec
c:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters
C:\SEV7 WIN7\AOC10-LEAD_NEWEST.APL

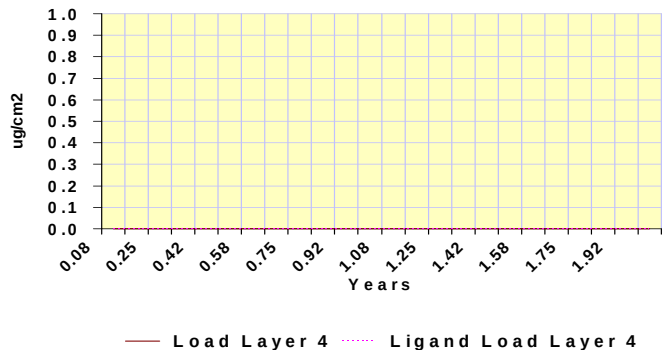
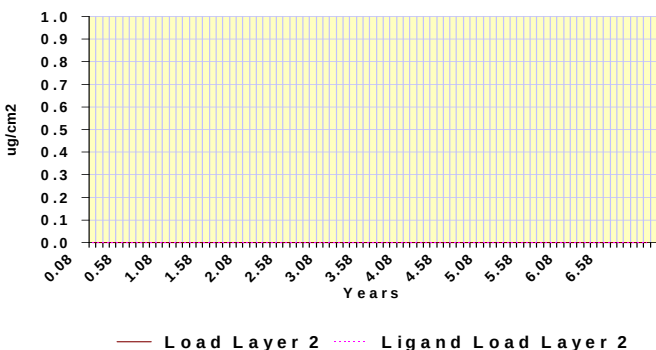
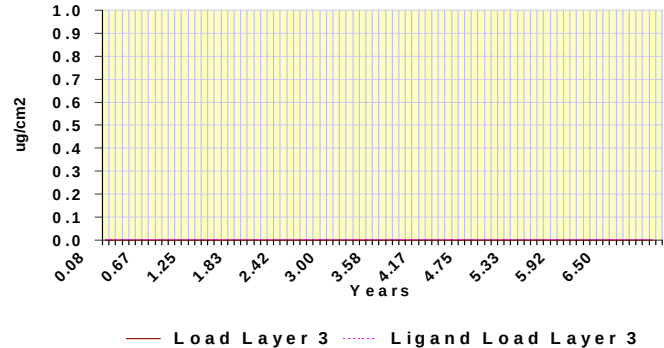
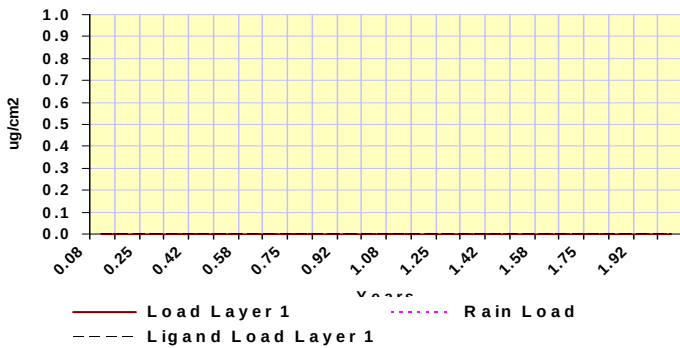
Sublayer Loads 1 2 3 4 5 6 7 8 9 10

Layer 1 (ug/g) 7.41E+02 2.40E+03 9.16E+02 9.22E+02 4.00E+03 1.90E+03 7.93E+02 3.85E+02

Layer 2 (ug/g) 1.80E+03 1.80E+03 1.80E+03 1.80E+03

Layer 3 (ug/g)

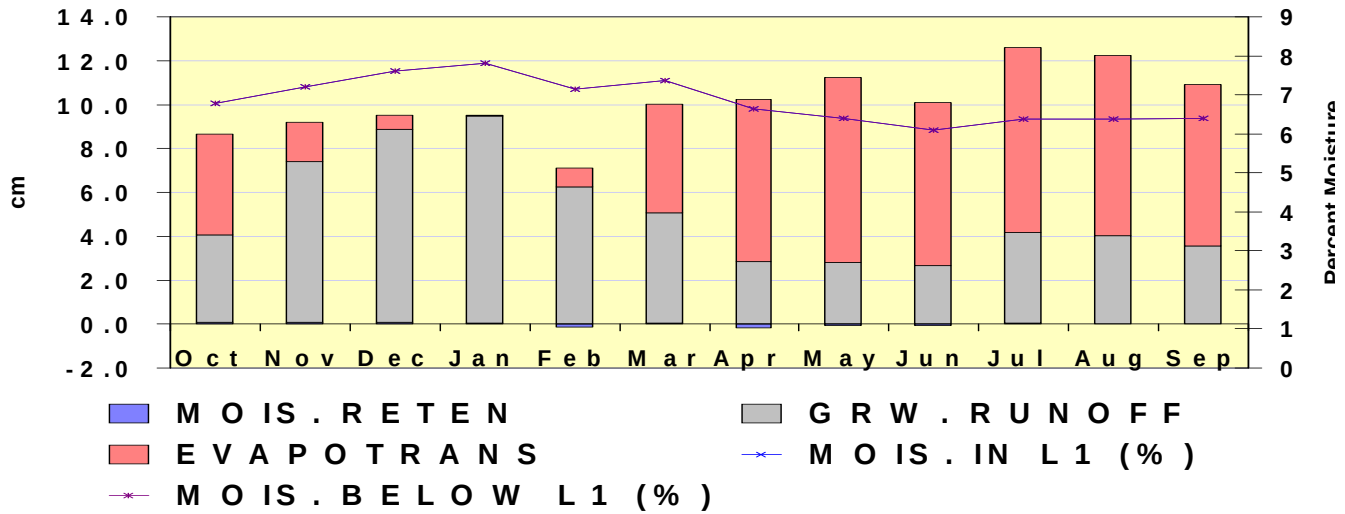
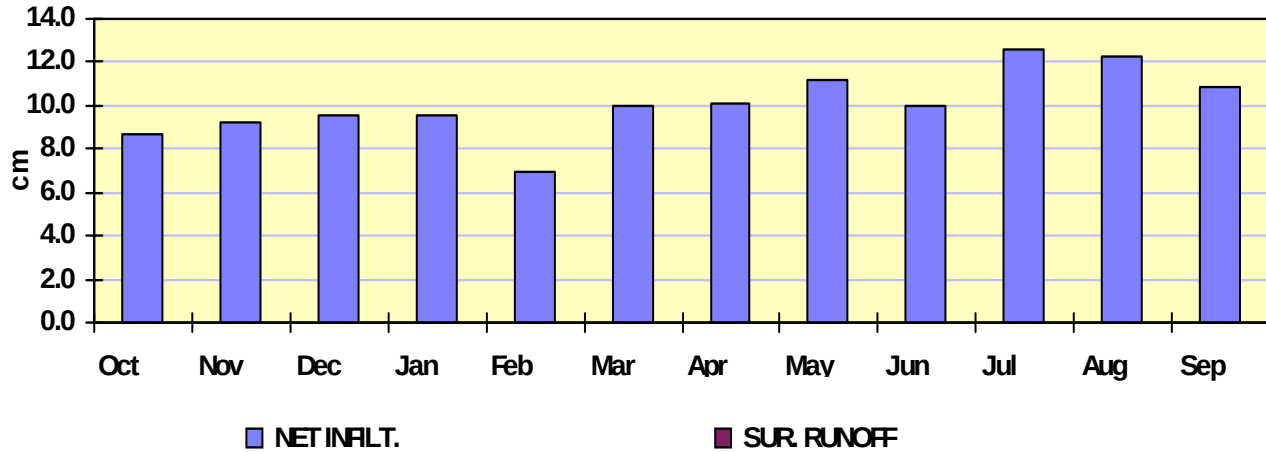
Layer 4 (ug/g)



SESOIL Hydrologic Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: c:\SEV7 WIN7\S01.OUT



	Surface Water Runoff		Net Infiltration		Evapotranspiration		Soil Moisture Retention		Groundwater Runoff (Recharge)		Soil Moisture	
	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Layer 1 Percent	Below Layer 1 Percent
October	0.00	0.00	8.66	3.41	4.58	1.80	0.09	0.04	3.99	1.57	6.79	6.79
November	0.00	0.00	9.20	3.62	1.82	0.72	0.10	0.04	7.29	2.87	7.21	7.21
December	0.00	0.00	9.50	3.74	0.64	0.25	0.09	0.04	8.78	3.46	7.60	7.60
January	0.00	0.00	9.50	3.74	0.03	0.01	0.05	0.02	9.43	3.71	7.81	7.81
February	0.00	0.00	6.98	2.75	0.87	0.34	-0.15	-0.06	6.26	2.46	7.15	7.15
March	0.00	0.00	10.02	3.94	4.94	1.94	0.05	0.02	5.03	1.98	7.36	7.36
April	0.00	0.00	10.07	3.96	7.38	2.91	-0.16	-0.06	2.86	1.13	6.64	6.64
May	0.00	0.00	11.19	4.41	8.44	3.32	-0.05	-0.02	2.80	1.10	6.40	6.40
June	0.00	0.00	10.03	3.95	7.43	2.93	-0.07	-0.03	2.68	1.06	6.10	6.10
July	0.00	0.00	12.60	4.96	8.44	3.32	0.06	0.02	4.10	1.61	6.37	6.37
August	0.00	0.00	12.23	4.81	8.20	3.23	0.00	0.00	4.02	1.58	6.37	6.37
September	0.00	0.00	10.90	4.29	7.35	2.89	0.01	0.00	3.54	1.39	6.40	6.40
Total	0.00	0.00	120.88	47.59	60.10	23.66	0.00	0.00	60.77	23.93	--	--

SESOIL Pollutant Cycle Report

Scenario Description: LEAD SESOIL RUN

SESOIL Output File: c:\SEV7 WIN7\S01.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	0.000E+00	0.00
In Soil Air	0.000E+00	0.00
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	5.127E+13	99.25
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	0.000E+00	0.00
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	2.430E+09	0.00
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	0.000E+00	0.00
Total Output	5.127E+13	99.26
Total Input	5.166E+13	
Input - Output	3.846E+11	

Maximum leachate concentration: 0.000E+00 mg/l

Climate File: TRENTON

c:\SEV7 WIN7\TRENTON.CLM

Chemical File: Lead And Compounds (Kd)

c:\SEV7 WIN7\NJ LEAD AND COMPOUNDS (KD).CHM

Soil File: Sand, Perm = 1.00E-3 cm/sec

c:\SEV7 WIN7\SAND.SOI

Application File: SEVIEW Default Application Parameters

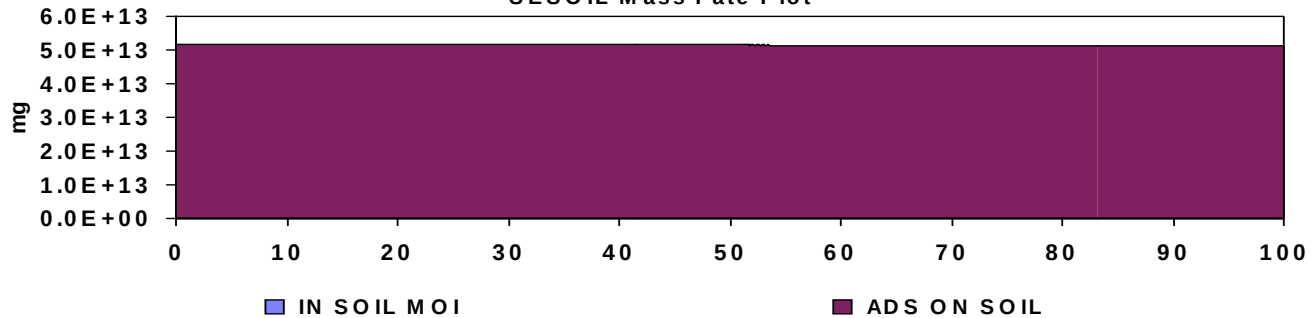
C:\SEV7 WIN7\AOC10-LEAD_NEWEST.APL

Starting Depth: 257.20 cm

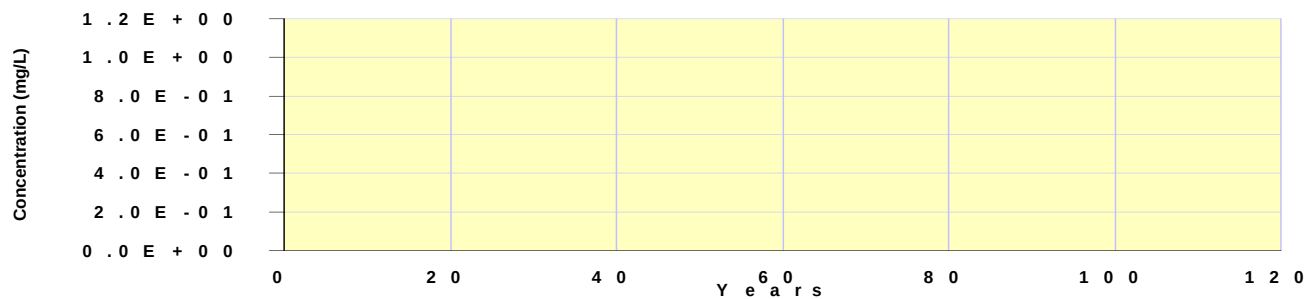
Ending Depth: 261.90 cm

Total Depth: 274.50 cm

SESOIL Mass Fate Plot



Leachate Concentration



Contaminant Depth Plot

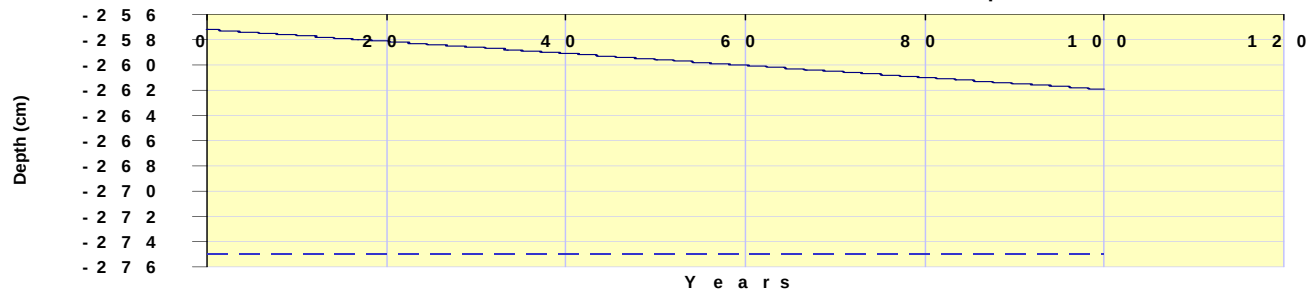


TABLE C.I
SOIL CONCENTRATION PROFILE - AOC-01A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	103-1 3/11/2004	106-1 3/10/2004	106-2 3/10/2004	107-1 3/10/2004	107-2 3/10/2004	107-3 3/10/2004	107-4 3/10/2004	203-1 3/11/2004	206-1 3/10/2004	208-1 3/11/2004
0 - 0.5	183		-	-	-	-	-	-	-	-	-	-
0.5 - 1	27.2		-	-	-	-	-	-	-	-	-	-
1 - 1.5	32.2		-	-	-	-	-	-	-	-	-	-
2 - 2.5	59.8		-	7.1	59.8	15.2	16.6	23.8	17.8	-	16.7	-
2.5 - 3	72.4		-	-	-	-	-	-	-	16.9	-	72.4
3 - 3.5	24.5		-	-	-	-	-	-	-	-	-	-
3.5 - 4	12.8		-	-	-	-	-	-	-	-	-	-
4 - 4.5	50		17.9	-	-	-	-	-	-	-	-	-
4.5 - 5	26.7		-	-	-	-	-	-	-	-	-	-
5 - 5.5	0		-	-	-	-	-	-	-	-	-	-
5.5 - 6	69.6		-	-	-	-	-	-	-	-	-	-
6.5 - 7	23.3		-	-	-	-	-	-	-	-	-	-
7.5 - 8	11.3		-	-	-	-	-	-	-	-	-	-
8 - 8.5	382		-	-	-	-	-	-	-	-	-	-
9 - 9.5	4.4		-	-	-	-	-	-	-	-	-	-
11 - 11.5			-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.60		7.98	10.16	10.11	7.91	7.99	8.07	8.01	3.89	4.82	4.82

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.I
SOIL CONCENTRATION PROFILE - AOC-01A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	213-1 3/9/2004	213-2 3/9/2004	221-1 3/10/2004	279-1 3/11/2004	H-1 3/10/2004	L1-1 3/9/2004	L1-2 3/9/2004	MC1-1 3/9/2004	MC2-1 3/9/2004	MC3-1 3/10/2004
0 - 0.5	183		-	-	-	-	-	-	-	-	-	-
0.5 - 1	27.2		-	-	-	-	-	-	-	-	-	-
1 - 1.5	32.2		-	-	-	-	-	-	-	-	-	-
2 - 2.5	59.8		-	-	-	-	-	-	-	-	-	-
2.5 - 3	72.4		-	-	-	7.8	-	-	-	-	-	-
3 - 3.5	24.5		-	-	-	-	-	-	-	-	-	-
3.5 - 4	12.8		12.5	12.8	-	-	-	-	-	-	-	-
4 - 4.5	50		-	-	12.4	-	50	-	-	-	-	-
4.5 - 5	26.7		-	-	-	-	-	26.7	-	-	-	-
5 - 5.5	0		-	-	-	-	-	-	-	-	-	-
5.5 - 6	69.6		-	-	-	-	-	-	69.6	-	-	-
6.5 - 7	23.3		-	-	-	-	-	-	-	23.3	-	-
7.5 - 8	11.3		-	-	-	-	-	-	-	-	11.3	-
8 - 8.5	382		-	-	-	-	-	-	-	-	-	382
9 - 9.5	4.4		-	-	-	-	-	-	-	-	-	-
11 - 11.5			-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.60		7.18	7.21	7.67	8.00	5.80	7.24	9.12	12.52	12.88	13.08

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.I
SOIL CONCENTRATION PROFILE - AOC-01A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	MC3-1 3/11/2004	PL09-01 3/17/2004	PL09-02 3/17/2004	PL09-03 3/17/2004	PL09-04 3/17/2004	PL09-05 3/17/2004	PL09-06 3/17/2004	PL10-06 3/17/2004	PL11-01 3/18/2004	PL11-02 3/18/2004
0 - 0.5	183		-	-	-	-	-	-	-	-	-	-
0.5 - 1	27.2		-	-	-	-	-	-	-	-	-	-
1 - 1.5	32.2		-	-	-	-	-	-	-	-	-	-
2 - 2.5	59.8		-	-	-	-	-	-	-	-	-	-
2.5 - 3	72.4		-	-	-	-	-	-	-	17.4	-	-
3 - 3.5	24.5		-	-	-	-	-	-	-	17.4	0	1.3
3.5 - 4	12.8		-	-	-	-	-	-	-	-	-	-
4 - 4.5	50		-	11	2.2	14.2	6.8	11.3	1.4	-	-	-
4.5 - 5	26.7		-	-	-	-	-	-	-	-	-	-
5 - 5.5	0		-	-	-	-	-	-	0	-	-	-
5.5 - 6	69.6		-	-	-	-	-	-	-	-	1.6	-
6.5 - 7	23.3		-	-	-	-	-	-	-	-	-	-
7.5 - 8	11.3		-	-	-	-	-	-	-	-	-	-
8 - 8.5	382		-	-	-	-	-	-	-	-	-	-
9 - 9.5	4.4		4.4	-	-	-	-	-	-	-	-	-
11 - 11.5			-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.60		13.08	9.42	9.38	9.79	9.73	10.27	10.11	6.94	8.67	8.88

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.I
SOIL CONCENTRATION PROFILE - AOC-01A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	PL11-03 3/17/2004	TK6-PE-1 4/8/2008	TK6-PE-2 4/8/2008	TK6-PE-3 4/8/2008	XSO1 10/1/2002	XSO2 10/1/2002	ZB-1 3/5/2004	ZB-1-100 12/16/2010	ZB-1-101 12/16/2010	ZB-2 3/4/2004
0 - 0.5	183		-	-	-	-	110	183	-	-	-	-
0.5 - 1	27.2		-	-	-	-	-	-	-	8.7	27.2	-
1 - 1.5	32.2		-	-	-	-	30.1	32.2	-	-	-	-
2 - 2.5	59.8		-	-	-	-	-	-	-	-	-	-
2.5 - 3	72.4		-	-	-	-	-	-	65.8	-	-	54.1
3 - 3.5	24.5		16.6	-	-	-	-	-	-	21.6	24.5	-
3.5 - 4	12.8		-	-	-	-	-	-	-	-	-	-
4 - 4.5	50		-	-	-	-	-	-	-	-	-	-
4.5 - 5	26.7		-	-	-	-	-	-	-	-	-	-
5 - 5.5	0		-	-	-	-	-	-	-	-	-	-
5.5 - 6	69.6		-	-	-	-	-	-	-	-	-	-
6.5 - 7	23.3		-	-	-	-	-	-	-	-	-	-
7.5 - 8	11.3		-	-	-	-	-	-	-	-	-	-
8 - 8.5	382		-	-	-	-	-	-	-	-	-	-
9 - 9.5	4.4		-	-	-	-	-	-	-	-	-	-
11 - 11.5			-	6.4	11.4	8.4	-	-	-	-	-	-
Average Depth to Water	8.60		10.83	12.51	12.52	12.52	6.01	8.42	7.21	7.63	7.65	5.91

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.I
SOIL CONCENTRATION PROFILE - AOC-01A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	ZB-3 3/11/2004	ZB-4 3/4/2004	ZB-5 3/5/2004
0 - 0.5	183		-	-	-
0.5 - 1	27.2		-	-	-
1 - 1.5	32.2		-	-	-
2 - 2.5	59.8		-	-	-
2.5 - 3	72.4		4.3	21.9	-
3 - 3.5	24.5		-	-	136
3.5 - 4	12.8		-	-	-
4 - 4.5	50		-	-	-
4.5 - 5	26.7		-	-	-
5 - 5.5	0		-	-	-
5.5 - 6	69.6		-	-	-
6.5 - 7	23.3		-	-	-
7.5 - 8	11.3		-	-	-
8 - 8.5	382		-	-	-
9 - 9.5	4.4		-	-	-
11 - 11.5			-	-	-
Average Depth to Water	8.60		6.82	5.94	5.13

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.II
SOIL CONCENTRATION PROFILE - AOC-01D: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	PL10-01 3/11/2004	PL10-02 3/11/2004	PL10-03 3/5/2004	PL10-04 3/11/2004	PL10-05 3/11/2004	PL10-07 3/5/2004	PL10-08 3/5/2004	PL10-09 3/5/2004	PL10-10 3/5/2004	PL10-100 12/16/2010
0.5 - 1	243		-	-	-	-	-	-	184	-	-	18.7
1 - 1.5	9.5		-	-	-	-	-	-	-	-	-	-
1.5 - 2	6.1		-	-	-	-	-	-	-	-	-	-
2.5 - 3	197		13.3	-	-	19.9	12.9	2.5	3.6	11.9	8.9	-
3 - 3.5	4810		-	-	-	-	-	-	-	-	-	35.3
3.5 - 4	15.5		-	-	-	-	-	-	-	-	-	-
4.5 - 5	28.4		-	28.4	-	-	-	-	-	-	-	-
5 - 5.5	165		-	-	165	-	-	-	-	-	-	-
6 - 6.5	9.4		-	-	9.4	-	-	-	-	-	-	-
Average Depth to Water	7.23		6.89	9.10	9.26	8.39	7.51	6.83	7.53	7.60	7.44	7.31

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.II
SOIL CONCENTRATION PROFILE - AOC-01D: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	PL10-101 12/16/2010	PL10-102 12/6/2010	PL10-103 12/16/2010	PL10-104 12/16/2010	PL10-105 12/16/2010	PL10-106 12/16/2010	PL10-107 12/16/2010	PL10-108 12/16/2010	PL10-11 3/5/2004	PL10-12 3/17/2004
0.5 - 1	243		243	18.2	8.5	5.3	9	12.4	13.2	13.9	-	-
1 - 1.5	9.5		-	-	-	-	-	-	-	-	-	-
1.5 - 2	6.1		-	-	-	-	-	-	-	-	-	-
2.5 - 3	197		-	-	-	-	-	-	-	-	-	-
3 - 3.5	4810		4810	116	16.1	22	12.6	11.6	8.2	35.3	341	54.5
3.5 - 4	15.5		-	-	-	-	-	-	-	-	-	-
4.5 - 5	28.4		-	-	-	-	-	-	-	-	-	-
5 - 5.5	165		-	-	-	-	-	-	-	-	-	-
6 - 6.5	9.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	7.23		6.34	5.24	7.96	9.17	9.23	8.49	8.47	7.53	6.27	3.92

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.II
SOIL CONCENTRATION PROFILE - AOC-01D: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	PL10-13 3/17/2004	PL10-14 3/5/2004	PL10-15 3/17/2004	PL10-16 3/17/2004	PL10-17 3/17/2004	PL10-18 3/17/2004	RW-100 5/31/2012	RW-101 5/31/2012	RW-102 5/30/2012
0.5 - 1	243		-	-	-	-	-	-	-	-	56.5
1 - 1.5	9.5		-	-	-	-	-	-	-	9.5	-
1.5 - 2	6.1		-	-	-	-	-	-	6.1	-	-
2.5 - 3	197		-	197	-	13.4	32.2	41.8	-	-	-
3 - 3.5	4810		352	-	249	-	-	-	-	-	-
3.5 - 4	15.5		-	-	-	-	15.5	-	-	-	-
4.5 - 5	28.4		-	-	-	-	-	-	17.9	-	-
5 - 5.5	165		-	-	-	-	-	-	-	-	-
6 - 6.5	9.4		-	-	-	-	-	-	-	-	-
Average Depth to Water	7.23		8.00	7.12	9.27	8.12	7.61	7.60	6.77	1.54	3.01

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.III
SOIL CONCENTRATION PROFILE - AOC-08A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B7-6 7/10/1998	B8-5 7/14/1998	B8-9 7/15/1998	CE-1 3/19/2004	CE-2 3/19/2004	ISO13 6/4/2003	ISO28 7/15/2003	ISO29 7/15/2003	JSO10 9/25/2002	JSO14 9/30/2002
0 - 0.5	138		-	120	-	-	-	138	-	-	-	-
0.5 - 1	127		-	-	-	-	-	-	116	53.2	-	-
1.5 - 2	39.6		-	-	-	-	-	-	-	-	34.1	-
2 - 2.5	144		-	-	-	-	-	-	-	-	-	-
2.5 - 3	253		-	-	-	253	61.8	-	-	-	-	-
3 - 3.5	36	12	-	-	-	-	-	-	-	-	-	-
3.5 - 4	36		-	-	-	-	-	-	-	-	-	-
4 - 4.5	110		-	-	-	-	-	-	-	-	-	-
4.5 - 5	110		-	-	-	-	-	-	-	-	-	-
5 - 5.5	110		-	-	-	-	-	-	-	-	-	-
5.5 - 6	195		-	-	15	-	56.8	-	-	-	-	114
6 - 6.5	13.6		-	-	-	-	-	-	-	-	-	-
7 - 7.5	8.8		-	-	-	-	-	-	-	-	-	-
7.5 - 8	26.2		-	0	-	26.2	-	-	-	-	-	-
8 - 8.5	14	14	-	-	-	-	-	-	-	-	-	-
8.5 - 9			-	-	-	-	-	-	-	13.5	-	-
9 - 9.5	5		-	-	-	-	-	-	-	-	-	-
9.5 - 10	18.6		-	-	-	-	-	-	-	-	-	-
10 - 10.5	167		-	-	-	-	-	-	-	-	-	-
10.5 - 11	0		-	-	0	-	-	-	-	-	-	-
11 - 11.5	80.7		-	-	-	-	-	-	-	-	-	-
11.5 - 12	10.1		-	-	-	-	-	-	-	-	-	-
13 - 13.5	8.5		-	-	-	-	-	-	-	-	-	-
15 - 15.5	3.4		-	-	-	-	-	-	0	-	-	-
Average Depth to Water	12.52		14.24	9.47	14.16	12.62	12.71	12.08	13.99	14.92	12.13	11.84

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.III
SOIL CONCENTRATION PROFILE - AOC-08A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	JSO15 9/30/2002	JSO16 9/27/2002	JSO17 9/27/2002	JSO18 9/27/2002	JSO19 9/30/2002	JSO20 9/30/2002	JSO21 9/30/2002	JSO28 6/3/2003	JSO34 7/15/2003	JSO5 9/19/2002
0 - 0.5	138		-	-	-	-	-	-	-	61.9	20.8	-
0.5 - 1	127		-	-	-	-	-	-	-	-	-	122
1.5 - 2	39.6		-	-	-	-	-	19.7	39.6	-	-	-
2 - 2.5	144		-	-	-	-	-	-	-	-	-	-
2.5 - 3	253		-	-	-	-	-	-	-	-	-	-
3 - 3.5	36		-	-	-	-	-	-	-	7.5	-	-
3.5 - 4	36		-	-	-	-	27.3	-	-	-	-	-
4 - 4.5	110		-	-	-	-	-	-	-	-	-	-
4.5 - 5	110		-	-	-	-	-	-	-	-	8.2	-
5 - 5.5	110		-	-	-	-	-	-	-	-	-	-
5.5 - 6	195		-	9.2	71.2	105	-	-	-	-	-	-
6 - 6.5	13.6		-	-	-	-	-	-	-	-	-	-
7 - 7.5	8.8		-	-	-	-	-	-	-	-	-	-
7.5 - 8	26.2		-	-	-	-	-	-	-	-	-	-
8 - 8.5	14		-	-	-	-	-	-	-	-	-	-
8.5 - 9			-	-	-	-	-	-	-	-	-	-
9 - 9.5	5		-	-	-	-	-	-	-	-	-	-
9.5 - 10	18.6		18.6	-	-	-	-	-	-	-	-	-
10 - 10.5	167		-	-	-	-	-	-	-	-	-	-
10.5 - 11	0		-	-	-	-	-	-	-	-	-	-
11 - 11.5	80.7		-	-	-	-	-	-	-	-	-	-
11.5 - 12	10.1		-	-	-	-	-	-	-	-	-	-
13 - 13.5	8.5		-	-	-	-	-	-	-	-	-	-
15 - 15.5	3.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	12.52		11.81	12.66	12.79	12.94	11.95	11.31	12.31	16.97	14.87	14.08

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.III
SOIL CONCENTRATION PROFILE - AOC-08A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	JSO6 9/19/2002	JSO7 9/24/2002	JSO8 9/24/2002	JSO9 9/25/2002	MOA-B-BS1 11/21/1996	MOA-B-BS2 11/21/1996	MOA-B-BS3 11/21/1996	MOA-B-BS4 11/21/1996	MOA-B-BS5 11/21/1996	MOA-B-S1 12/4/1996
0 - 0.5	138		-	-	-	-	-	-	-	-	-	-
0.5 - 1	127		127	30.8	28.9	-	-	-	-	-	-	-
1.5 - 2	39.6		-	-	-	22.7	-	-	-	-	-	-
2 - 2.5	144		-	-	-	-	-	-	-	-	-	-
2.5 - 3	253		-	-	-	-	-	-	-	-	-	-
3 - 3.5	36		-	-	-	-	-	-	-	-	-	-
3.5 - 4	36		-	-	-	-	-	-	-	-	-	-
4 - 4.5	110		-	-	-	-	-	-	-	-	-	-
4.5 - 5	110		-	-	-	-	-	-	-	-	-	-
5 - 5.5	110		-	-	-	-	-	-	-	-	-	-
5.5 - 6	195		-	-	-	-	8.8	149	114	-	-	-
6 - 6.5	13.6		-	-	-	-	-	-	-	-	-	-
7 - 7.5	8.8		-	-	-	-	-	-	-	-	-	-
7.5 - 8	26.2		-	-	-	-	-	-	-	-	-	-
8 - 8.5	14		-	-	-	-	-	-	-	-	-	-
8.5 - 9			-	-	-	-	-	-	-	-	-	-
9 - 9.5	5		-	-	-	-	-	-	-	-	-	-
9.5 - 10	18.6		-	-	-	-	-	-	-	-	-	-
10 - 10.5	167		-	-	-	-	-	-	-	29.3	79.1	23.2
10.5 - 11	0		-	-	-	-	-	-	-	-	-	-
11 - 11.5	80.7		-	-	-	-	-	-	-	-	-	-
11.5 - 12	10.1		-	-	-	-	-	-	-	-	-	-
13 - 13.5	8.5		-	-	-	-	-	-	-	-	-	-
15 - 15.5	3.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	12.52		13.98	10.78	10.82	12.36	10.89	10.86	10.74	10.84	10.79	11.72

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.III
SOIL CONCENTRATION PROFILE - AOC-08A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	MOA-B-S10 12/10/1996	MOA-B-S11 12/3/1996	MOA-B-S12 12/5/1996	MOA-B-S13 12/5/1996	MOA-B-S14 12/5/1996	MOA-B-S15 12/10/1996	MOA-B-S16 12/16/1996	MOA-B-S17 12/5/1996	MOA-B-S18 12/5/1996	MOA-B-S20 12/4/1996
0 - 0.5	138		-	-	-	-	-	-	-	-	-	-
0.5 - 1	127		-	-	-	-	-	-	-	-	-	-
1.5 - 2	39.6		-	-	-	-	-	-	-	-	-	-
2 - 2.5	144		-	-	-	-	-	-	-	-	-	-
2.5 - 3	253		-	-	-	-	-	-	-	-	-	-
3 - 3.5	36		-	-	-	-	-	-	-	-	-	-
3.5 - 4	36		-	-	-	-	-	-	-	-	-	-
4 - 4.5	110		-	-	-	-	-	-	-	-	-	-
4.5 - 5	110		-	-	-	-	-	-	-	-	-	-
5 - 5.5	110		-	-	-	-	-	-	-	-	-	-
5.5 - 6	195		-	18.1	55.5	195	41.5	-	43.7	5	10.2	24.7
6 - 6.5	13.6		-	-	-	-	-	-	-	-	-	-
7 - 7.5	8.8		-	-	-	-	-	8.8	-	-	-	-
7.5 - 8	26.2		-	-	-	-	-	-	-	-	-	-
8 - 8.5	14		-	-	-	-	-	-	-	-	-	-
8.5 - 9			-	-	-	-	-	-	-	-	-	-
9 - 9.5	5		-	-	-	-	-	-	-	-	-	-
9.5 - 10	18.6		-	-	-	-	-	-	-	-	-	-
10 - 10.5	167		5.4	-	-	-	-	-	-	-	-	-
10.5 - 11	0		-	-	-	-	-	-	-	-	-	-
11 - 11.5	80.7		-	-	-	-	-	-	-	-	-	-
11.5 - 12	10.1		-	-	-	-	-	-	-	-	-	-
13 - 13.5	8.5		-	-	-	-	-	-	-	-	-	-
15 - 15.5	3.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	12.52		12.70	12.74	12.56	13.24	12.95	12.75	11.73	12.00	11.27	11.79

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.III
SOIL CONCENTRATION PROFILE - AOC-08A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	MOA-B-S22 12/20/1996	MOA-B-S23 12/20/1996	MOA-B-S3 12/4/1996	MOA-B-S4 12/4/1996	MOA-B-S5 12/5/1996	MOA-B-S6 12/5/1996	MOA-B-S7 12/5/1996	MOA-B-S8 12/5/1996	MOA-B-S9 12/10/1996	SB-8-SO-15 2/17/1994
0 - 0.5	138		-	-	-	-	-	-	-	-	-	-
0.5 - 1	127		-	-	-	-	-	-	-	-	-	-
1.5 - 2	39.6		-	-	-	-	-	-	-	-	-	-
2 - 2.5	144		-	-	-	-	-	-	-	-	-	36
2.5 - 3	253		-	-	-	-	-	-	-	-	-	36
3 - 3.5	36		-	-	-	-	-	-	-	-	-	36
3.5 - 4	36		-	-	-	-	-	-	-	-	-	36
4 - 4.5	110		-	-	-	-	-	-	-	-	-	-
4.5 - 5	110		-	-	-	-	-	-	-	-	-	-
5 - 5.5	110		-	-	-	-	-	-	-	-	-	-
5.5 - 6	195		-	6.6	-	-	-	-	-	-	-	-
6 - 6.5	13.6		-	-	-	-	-	-	-	-	-	-
7 - 7.5	8.8		-	-	-	-	-	-	-	-	-	-
7.5 - 8	26.2		-	-	-	-	-	-	-	-	-	-
8 - 8.5	14		-	-	-	-	-	-	-	-	-	-
8.5 - 9			-	-	-	-	-	-	-	-	-	-
9 - 9.5	5		5	-	-	-	-	-	-	-	-	-
9.5 - 10	18.6		-	-	-	-	-	-	-	-	-	-
10 - 10.5	167		-	-	10.9	7	3.3	10.7	14.1	9.5	167	-
10.5 - 11	0		-	-	-	-	-	-	-	-	-	-
11 - 11.5	80.7		-	-	-	-	-	-	-	-	-	-
11.5 - 12	10.1		-	-	-	-	-	-	-	-	-	-
13 - 13.5	8.5		-	-	-	-	-	-	-	-	-	-
15 - 15.5	3.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	12.52		11.60	11.61	11.64	11.42	12.41	11.12	13.10	11.88	11.84	10.91

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.III
SOIL CONCENTRATION PROFILE - AOC-08A: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-8-SO-16 2/17/1994	SB-8-SO-17 2/17/1994	SB-8-SO-18 2/17/1994	ZSO5 9/27/2002	ZSO6 9/27/2002	ZSO6-7 9/27/2002	ZSO6-8 9/27/2002
0 - 0.5	138		-	-	-	-	14.5	-	-
0.5 - 1	127		-	-	-	-	-	-	-
1.5 - 2	39.6		-	-	-	-	-	-	-
2 - 2.5	144		-	-	-	-	144	-	-
2.5 - 3	253		-	-	-	-	-	-	-
3 - 3.5	36		-	-	-	-	-	-	-
3.5 - 4	36		-	-	30	-	-	-	-
4 - 4.5	110		110	21	-	-	14.3	-	-
4.5 - 5	110		110	-	-	-	-	-	-
5 - 5.5	110		110	-	-	-	-	-	-
5.5 - 6	195		110	-	-	-	-	-	-
6 - 6.5	13.6		-	-	-	-	13.6	-	-
7 - 7.5	8.8		-	-	-	-	-	-	-
7.5 - 8	26.2		-	-	-	-	-	-	-
8 - 8.5	14		-	-	-	-	-	-	-
8.5 - 9			-	-	-	18	9.9	-	-
9 - 9.5	5		-	-	-	-	-	-	-
9.5 - 10	18.6		-	-	-	-	-	-	-
10 - 10.5	167		-	-	-	-	-	-	-
10.5 - 11	0		-	-	-	-	-	-	-
11 - 11.5	80.7		-	-	-	80.7	-	-	-
11.5 - 12	10.1		-	-	-	-	-	10.1	-
13 - 13.5	8.5		-	-	-	8.5	-	-	8.7
15 - 15.5	3.4		-	-	-	3.4	-	-	-
Average Depth to Water	12.52		11.05	14.97	14.01	15.73	14.28	14.28	14.28

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IV.i
SOIL CONCENTRATION PROFILE - AOC-08B: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-4 7/14/1998	B8-4-101 1/12/2011	B8-4-103 1/17/2011	B8-6-100 1/17/2011	B8-6-101 1/17/2011	B8-6-102 1/17/2011	B8-6-103 1/17/2011	B8-7 7/15/1998	B8-8 7/15/1998	B8-8-1-100 1/19/2011
0 - 0.5	289		33	-	87	-	-	-	-	140	85	11.3
0.5 - 1	179		-	-	-	140	85.5	58.3	89.4	-	-	-
1.5 - 2	113		-	-	28.7	-	-	-	-	-	-	-
1 - 1.5	297		-	-	-	-	-	-	-	-	-	7.7
2 - 2.5	295		-	-	-	89.7	32.2	14.8	0	-	-	-
2.5 - 3	20		-	-	-	-	-	-	-	-	-	-
3 - 3.5	1110		-	-	-	-	-	-	-	-	-	-
3.5 - 4	436		-	-	-	-	-	-	-	-	-	-
5.5 - 6	336		-	-	-	-	336	-	-	-	-	-
6 - 6.5	7510		800	-	-	160	-	136	7510	-	-	-
6.5 - 7	800		800	-	-	-	-	-	-	-	-	-
7 - 7.5	4770		800	-	-	-	-	-	-	-	-	59.3
7.5 - 8	4770		800	-	-	-	-	-	-	-	-	59.3
8 - 8.5	331		-	331	126	-	-	-	-	-	-	-
9 - 9.5	860		-	-	-	-	-	-	-	13	860	-
9.5 - 10			-	-	-	396	-	-	-	13	860	308
10 - 10.5	577		-	-	-	-	-	-	-	-	-	-
10.5 - 11	931		-	-	-	-	-	-	-	-	-	-
11 - 11.5	14.3		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	11.49		9.75	9.52	9.01	9.69	9.69	9.80	10.65	12.40	13.15	14.55

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IV.i
SOIL CONCENTRATION PROFILE - AOC-08B: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-1-101 1/19/2011	B8-8-1-102 1/19/2011	B8-8-1-103 1/19/2011	B8-8-2-100 1/19/2011	B8-8-2-101 1/19/2011	B8-8-2-102 1/19/2011	B8-8-3 1/18/2008	B8-8-4-100 1/17/2011	B8-8-4-101 1/17/2011	B8-8-4-103 1/18/2011
0 - 0.5	289		7.4	23.3	33.3	62	289	52.5	77.3	44.9	40.9	41.1
0.5 - 1	179		-	-	-	-	-	-	-	-	-	-
1.5 - 2	113		-	51.1	13.9	-	-	-	-	-	-	-
1 - 1.5	297		3.9	-	-	24	24.7	17.2	-	37.7	24	18.3
2 - 2.5	295		-	-	-	-	-	-	-	-	-	-
2.5 - 3	20		-	-	-	-	-	-	-	-	-	-
3 - 3.5	1110		-	-	-	-	-	-	-	-	-	-
3.5 - 4	436		-	-	-	-	-	-	-	-	-	-
5.5 - 6	336		-	-	-	-	-	-	-	27.1	-	-
6 - 6.5	7510		-	-	-	-	-	-	-	-	-	-
6.5 - 7	800		-	-	-	-	-	-	-	-	-	-
7 - 7.5	4770		130	118	38.6	3520	2070	93.6	-	-	19.2	-
7.5 - 8	4770		130	118	-	3520	2070	93.6	-	-	-	13.3
8 - 8.5	331		-	-	-	-	-	-	-	-	-	-
9 - 9.5	860		-	-	-	-	-	-	48.2	-	-	-
9.5 - 10			-	-	-	433	-	132	-	-	-	-
10 - 10.5	577		-	-	-	-	-	-	-	-	-	-
10.5 - 11	931		115	284	-	-	931	-	-	-	-	-
11 - 11.5	14.3		-	-	-	-	-	-	-	-	-	14.3
Average Depth to Water	11.49		14.68	14.79	14.42	13.05	13.11	13.02	11.08	14.21	13.46	12.86

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IV.i
SOIL CONCENTRATION PROFILE - AOC-08B: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	JSO11-100 1/14/2011	JSO11-101 1/14/2011	JSO11-102 1/14/2011	JSO11-103 1/14/2011	JSO22 10/3/2002	JSO23 10/3/2002	SB-8-SO-11-100 1/14/2011	SB-8-SO-11-101 1/14/2011	SB-8-SO-11-102 1/14/2011	SB-8-SO-11-103 1/14/2011
0 - 0.5	289		-	-	-	-	-	30.8	-	-	-	-
0.5 - 1	179		126	96	88	68.6	-	-	56	51.4	40.7	179
1.5 - 2	113		-	-	103	-	-	-	-	64.3	-	-
1 - 1.5	297		-	-	-	-	-	-	-	-	-	-
2 - 2.5	295		193	150	-	218	-	-	295	-	88	57.8
2.5 - 3	20		20	-	-	-	-	-	-	-	-	-
3 - 3.5	1110		-	-	-	-	-	-	-	-	1110	-
3.5 - 4	436		-	-	-	-	10.4	10	-	-	-	436
5.5 - 6	336		-	-	-	27.6	-	-	-	-	-	-
6 - 6.5	7510		-	1290	-	-	-	-	321	-	-	-
6.5 - 7	800		-	-	-	-	-	-	-	-	-	-
7 - 7.5	4770		-	-	-	-	-	-	-	-	-	-
7.5 - 8	4770		-	-	-	-	-	-	-	-	-	-
8 - 8.5	331		-	-	-	-	-	-	-	-	-	-
9 - 9.5	860		-	-	-	-	-	-	-	-	-	-
9.5 - 10			-	526	-	-	-	-	-	-	-	-
10 - 10.5	577		-	-	-	-	-	-	-	-	-	-
10.5 - 11	931		-	-	-	-	-	-	-	-	-	-
11 - 11.5	14.3		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	11.49		9.99	10.04	9.99	9.94	16.25	17.33	9.25	9.27	9.18	9.28

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IV.i
SOIL CONCENTRATION PROFILE - AOC-08B: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-8-SO-12-100 1/17/2011	SB-8-SO-12-101 1/17/2011	SB-8-SO-12-102 1/17/2011	SB-8-SO-12-103 1/17/2011	SB-8-SO-14-100 1/17/2011	SB-AOC8B-2013-100 2/25/2013	SB-AOC8B-2013-101 2/25/2013	SB-AOC8B-2013-102 2/25/2013	SB-AOC8B-2013-103 2/25/2013	SB-AOC8B-2013-104 2/25/2013
0 - 0.5	289		-	-	-	-	35.3	100	17.2	117	50	116
0.5 - 1	179		112	108	90	77.8	-	-	-	-	-	-
1.5 - 2	113		81.7	83.9	95.3	113	57.6	-	-	-	-	-
1 - 1.5	297		-	-	-	-	57.6	8.2	28.8	297	49.8	276
2 - 2.5	295		-	-	-	-	57.6	-	-	-	-	-
2.5 - 3	20		-	-	-	-	-	-	-	-	-	-
3 - 3.5	1110		-	-	-	-	-	-	-	-	-	-
3.5 - 4	436		-	-	-	-	-	-	-	-	-	-
5.5 - 6	336		-	-	-	-	-	-	-	-	-	-
6 - 6.5	7510		-	-	-	-	-	-	-	-	-	-
6.5 - 7	800		-	-	-	-	-	-	-	-	-	-
7 - 7.5	4770		-	-	-	-	4770	-	-	-	-	-
7.5 - 8	4770		101	-	-	-	4770	-	-	-	-	-
8 - 8.5	331		-	-	-	-	-	-	-	-	-	-
9 - 9.5	860		-	-	-	-	-	-	-	-	-	-
9.5 - 10			-	-	-	-	-	6.4	457	110	10.2	366
10 - 10.5	577		-	205	-	-	577	-	-	-	-	-
10.5 - 11	931		-	-	-	-	-	-	-	-	-	-
11 - 11.5	14.3		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	11.49		10.03	10.13	9.56	9.61	13.16	17.86	12.62	11.45	11.27	10.20

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IV.i
SOIL CONCENTRATION PROFILE - AOC-08B: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC8B-2013-105 2/25/2013	SB-AOC8B-2013-106 2/25/2013	SB-AOC8B-2013-107 2/25/2013	SB-AOC8B-2013-108 2/25/2013	SB-AOC8B-2013-109 2/25/2013
0 - 0.5	289		57.5	57.6	66.1	68.5	54.6
0.5 - 1	179		-	-	-	-	-
1.5 - 2	113		-	-	-	-	-
1 - 1.5	297		67.4	73.3	97.2	70.7	67.6
2 - 2.5	295		-	-	-	-	-
2.5 - 3	20		-	-	-	-	-
3 - 3.5	1110		-	-	-	-	-
3.5 - 4	436		-	-	-	-	-
5.5 - 6	336		-	-	-	-	-
6 - 6.5	7510		-	-	-	-	-
6.5 - 7	800		-	-	-	-	-
7 - 7.5	4770		-	-	-	-	-
7.5 - 8	4770		-	27.8	67.5	35.3	-
8 - 8.5	331		-	-	-	-	-
9 - 9.5	860		-	-	-	-	-
9.5 - 10			268	-	-	-	45.7
10 - 10.5	577		-	-	-	-	-
10.5 - 11	931		-	-	-	-	-
11 - 11.5	14.3		-	-	-	-	-
Average Depth to Water	11.49		10.66	8.98	8.55	8.54	11.19

- Notes:**
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IV.ii
SOIL CONCENTRATION PROFILE - AOC-08B: LEAD (ADDITIONAL
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-4-102 1/18/2011	SB-8-SO-14-101 1/17/2011
0 - 0.5	157		54.8	157
1 - 1.5	93.3		93.3	26.8
7 - 7.5	1230		-	1230
7.5 - 8	1230		87.1	1230
11 - 11.5	719		686	719
Average Depth to Water	13.32		14.46	12.19

Notes:

- 1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.V
SOIL CONCENTRATION PROFILE - AOC-09: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B10-1 7/15/1998	B10-2 7/16/1998	B10-4 7/16/1998	B10-6 7/16/1998	B8-1 7/13/1998	B9-1 7/17/1998	B9-10 7/20/1998	B9-11 7/20/1998	B9-12 7/20/1998	B9-13 7/20/1998
0 - 0.5	555		-	-	-	25	24	-	-	36	84	100
0.5 - 1	234		-	-	-	-	-	-	-	-	-	-
1 - 1.5	56		-	-	-	-	-	-	-	-	-	-
1.5 - 2	150		-	-	-	-	-	26	0	-	-	-
2 - 2.5	210		-	130	-	-	-	-	-	-	-	-
2.5 - 3	210		-	130	-	-	-	-	-	-	-	-
3 - 3.5	3350		-	130	-	-	-	-	-	-	-	-
3.5 - 4	210		-	130	-	-	24	-	-	-	-	-
4 - 4.5	92		-	-	-	-	-	-	-	-	-	-
4.5 - 5	670		85	-	-	-	-	-	-	-	-	-
5 - 5.5	92		-	-	24	0	-	-	-	-	-	-
5.5 - 6	92		-	-	-	0	-	-	-	-	-	-
6 - 6.5	80		-	-	-	-	-	-	-	-	-	-
6.5 - 7	9.6		-	-	-	-	-	-	-	-	-	-
7 - 7.5	13.6		-	-	-	-	-	-	-	-	-	-
7.5 - 8			-	-	-	-	-	-	-	-	-	-
8 - 8.5	3.3		-	-	-	-	-	-	-	-	-	-
9 - 9.5	18		-	-	-	-	-	-	-	-	-	-
10 - 10.5	12		-	-	-	-	-	-	-	-	-	-
11 - 11.5	12.9		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	10.17		9.00	8.31	9.68	8.71	9.96	5.73	8.85	7.98	8.13	8.67

- Notes:**
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.V
SOIL CONCENTRATION PROFILE - AOC-09: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B9-14 7/20/1998	B9-16 7/17/1998	B9-16-200 4/25/2012	B9-17 7/17/1998	B9-18 7/17/1998	B9-2 7/17/1998	B9-3 7/17/1998	B9-5 7/17/1998	B9-6 7/20/1998	B9-7 7/20/1998
0 - 0.5	555		-	81	6	-	190	70	80	39	60	-
0.5 - 1	234		-	-	-	-	-	-	-	-	-	-
1 - 1.5	56		-	-	-	-	-	-	-	-	-	-
1.5 - 2	150		150	-	-	120	-	-	-	-	-	0
2 - 2.5	210		-	-	-	-	-	-	-	-	-	-
2.5 - 3	210		-	-	-	-	-	-	-	-	-	-
3 - 3.5	3350		-	-	-	-	-	-	-	-	-	-
3.5 - 4	210		-	-	-	-	-	-	-	-	-	-
4 - 4.5	92		-	-	-	-	-	-	-	-	-	-
4.5 - 5	670		-	-	-	-	-	-	-	-	-	-
5 - 5.5	92		-	-	24.4	-	-	-	-	-	-	-
5.5 - 6	92		-	-	-	-	-	-	-	-	-	-
6 - 6.5	80		-	-	-	-	-	-	-	-	-	-
6.5 - 7	9.6		-	-	-	-	-	-	-	-	-	-
7 - 7.5	13.6		-	-	-	-	-	-	-	-	-	-
7.5 - 8			-	-	-	-	-	-	-	-	-	-
8 - 8.5	3.3		-	-	-	-	-	-	-	-	-	-
9 - 9.5	18		-	-	-	-	-	-	-	-	-	-
10 - 10.5	12		-	-	-	-	-	-	-	-	-	-
11 - 11.5	12.9		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	10.17		8.92	8.44	8.36	8.70	8.26	6.76	4.47	6.76	9.67	9.98

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.V
SOIL CONCENTRATION PROFILE - AOC-09: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B9-8 7/20/1998	B9-9 7/20/1998	GRB9-1 7/27/1998	HSO1 9/18/2002	HSO10 9/19/2002	HSO15 9/24/2002	HSO17 9/23/2002	HSO19 9/23/2002	HSO2 9/19/2002	HSO20 9/23/2002
0 - 0.5	555		21	71	24	-	-	555	97.2	43.9	-	36.7
0.5 - 1	234		-	-	-	-	-	-	-	-	-	-
1 - 1.5	56		-	-	-	-	-	-	-	-	-	-
1.5 - 2	150		-	-	-	-	-	-	-	-	-	-
2 - 2.5	210		-	-	-	14.3	-	-	-	-	-	-
2.5 - 3	210		-	-	-	-	-	-	-	-	-	-
3 - 3.5	3350		-	-	-	-	-	-	-	-	-	-
3.5 - 4	210		-	-	-	-	-	-	-	-	-	-
4 - 4.5	92		-	-	-	-	-	-	-	-	-	-
4.5 - 5	670		-	-	-	-	-	-	-	-	-	-
5 - 5.5	92		-	-	-	-	-	-	-	-	-	-
5.5 - 6	92		-	-	-	-	-	-	-	-	-	-
6 - 6.5	80		-	-	-	-	-	-	-	-	9.9	-
6.5 - 7	9.6		-	-	-	-	-	-	-	-	-	-
7 - 7.5	13.6		-	-	-	-	13.6	-	-	-	-	-
7.5 - 8			-	-	-	-	-	-	-	-	-	-
8 - 8.5	3.3		-	-	-	-	-	-	-	-	-	-
9 - 9.5	18		-	-	-	-	-	-	-	-	-	-
10 - 10.5	12		-	-	-	-	-	-	-	-	-	-
11 - 11.5	12.9		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	10.17		10.04	8.72	9.68	14.11	12.91	7.65	2.32	3.41	14.88	4.80

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.V
SOIL CONCENTRATION PROFILE - AOC-09: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	HSO21 9/23/2002	HSO22 9/25/2002	HSO23 9/25/2002	HSO3 9/19/2002	HSO4 9/18/2002	HSO5 9/19/2002	HSO6 9/19/2002	HSO7 9/18/2002	HSO8 9/19/2002	HSO9 9/19/2002
0 - 0.5	555		45.8	-	-	-	-	-	-	-	-	-
0.5 - 1	234		-	-	-	-	-	-	-	16.2	-	-
1 - 1.5	56		-	-	-	-	-	-	-	-	-	-
1.5 - 2	150		-	-	-	-	13.4	-	-	-	-	-
2 - 2.5	210		-	-	-	-	-	-	-	-	-	-
2.5 - 3	210		-	-	-	-	-	-	-	-	-	-
3 - 3.5	3350		-	-	-	-	-	-	-	-	-	-
3.5 - 4	210		-	-	10.2	-	-	-	-	-	-	-
4 - 4.5	92		-	11.3	-	-	-	-	-	-	-	-
4.5 - 5	670		-	-	-	-	-	-	-	-	-	-
5 - 5.5	92		-	-	-	-	-	-	-	-	-	-
5.5 - 6	92		-	-	-	-	-	-	-	-	-	-
6 - 6.5	80		-	-	-	-	-	-	-	-	3.2	-
6.5 - 7	9.6		-	-	-	-	-	-	9	-	-	-
7 - 7.5	13.6		-	-	-	-	-	-	-	-	-	10
7.5 - 8			-	-	19.5	10.9	-	-	-	-	-	-
8 - 8.5	3.3		-	-	-	-	-	-	-	-	-	-
9 - 9.5	18		-	-	-	-	-	-	-	-	-	-
10 - 10.5	12		-	-	-	-	-	-	-	-	-	-
11 - 11.5	12.9		-	-	-	-	-	12.9	-	-	-	-
Average Depth to Water	10.17		6.31	6.40	7.53	16.09	14.51	14.13	12.33	10.66	10.65	11.02

- Notes:**
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.V
SOIL CONCENTRATION PROFILE - AOC-09: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	MW-72 2/23/2011	SB-10-SO-6 2/14/1994	SB-10-SO-6 2/15/1994	SB-9-SO-1 2/9/1994	SB-9-SO-10 2/9/1994	SB-9-SO-11 2/9/1994	SB-9-SO-12 2/9/1994	SB-9-SO-2 2/9/1994	SB-9-SO-3 2/9/1994	SB-9-SO-4 2/9/1994
0 - 0.5	555		143	89	-	170	64	83	20	68	60	21
0.5 - 1	234		-	89	-	-	-	-	-	-	-	-
1 - 1.5	56		-	56	-	-	-	-	-	-	-	-
1.5 - 2	150		-	56	-	-	-	-	-	-	-	-
2 - 2.5	210		-	-	210	-	-	-	-	-	-	-
2.5 - 3	210		-	-	210	-	-	-	-	-	-	-
3 - 3.5	3350		-	-	210	-	-	-	-	-	-	-
3.5 - 4	210		-	-	210	-	-	-	-	-	-	-
4 - 4.5	92		-	-	92	-	-	-	-	-	-	-
4.5 - 5	670		-	-	92	-	-	-	-	-	-	-
5 - 5.5	92		-	-	92	-	-	-	-	-	-	-
5.5 - 6	92		-	-	92	-	-	-	-	-	-	-
6 - 6.5	80		-	-	9.6	-	-	-	-	-	-	-
6.5 - 7	9.6		-	-	9.6	-	-	-	-	-	-	-
7 - 7.5	13.6		-	-	-	-	-	-	-	-	-	-
7.5 - 8			-	-	-	-	-	-	-	-	-	-
8 - 8.5	3.3		3.3	-	-	-	-	-	-	-	-	-
9 - 9.5	18		-	-	-	-	-	-	-	-	-	-
10 - 10.5	12		-	-	-	-	-	-	-	-	-	-
11 - 11.5	12.9		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	10.17		14.55	8.28	8.28	8.44	10.10	9.92	11.41	8.85	8.82	9.63

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.V
SOIL CONCENTRATION PROFILE - AOC-09: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-9-SO-5 2/9/1994	SB-9-SO-6 2/9/1994	SB-9-SO-7 2/9/1994	SB-9-SO-8 2/9/1994	SB-9-SO-9 2/9/1994	TP10-1 7/21/1998	TP10-2 7/21/1998	TP10-3 7/21/1998	TP9-1 7/20/1998	TP9-2-100 1/18/2011
0 - 0.5	555		130	200	170	57	83	-	-	-	-	-
0.5 - 1	234		-	-	-	-	-	85	14	-	-	-
1 - 1.5	56		-	-	-	-	-	-	-	-	-	-
1.5 - 2	150		-	-	-	-	-	-	-	-	-	-
2 - 2.5	210		-	-	-	-	-	-	-	-	-	-
2.5 - 3	210		-	-	-	-	-	-	-	-	-	-
3 - 3.5	3350		-	-	-	-	-	-	-	18	-	-
3.5 - 4	210		-	-	-	-	-	-	-	18	-	-
4 - 4.5	92		-	-	-	-	-	-	-	-	-	-
4.5 - 5	670		-	-	-	-	-	-	-	-	-	103
5 - 5.5	92		-	-	-	-	-	-	-	-	-	-
5.5 - 6	92		-	-	-	-	-	-	-	-	-	-
6 - 6.5	80		-	-	-	-	-	-	0	-	80	-
6.5 - 7	9.6		-	-	-	-	-	-	-	-	-	-
7 - 7.5	13.6		-	-	-	-	-	-	-	-	-	-
7.5 - 8			-	-	-	-	-	-	-	-	-	-
8 - 8.5	3.3		-	-	-	-	-	-	-	-	-	-
9 - 9.5	18		-	-	-	-	-	-	-	-	-	-
10 - 10.5	12		-	-	-	-	-	-	-	-	12	-
11 - 11.5	12.9		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	10.17		10.87	8.97	6.16	10.12	13.57	8.96	7.14	6.29	11.66	12.96

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.V
SOIL CONCENTRATION PROFILE - AOC-09: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	TP9-2-101 1/18/2011	TP9-2-102 1/18/2011	TP9-2-103 1/18/2011	TP9-2-202 4/26/2012	TP9-2-300 10/15/2012	TP9-2-301 10/15/2012	TP9-2-302 10/16/2012	TP9-2-303 10/15/2012	TP9-2-304 10/17/2012	TP9-2-311 10/15/2012
0 - 0.5	555		-	-	-	-	75.5	22.1	18.8	23.6	43.8	27.5
0.5 - 1	234		-	-	-	-	-	-	-	-	-	-
1 - 1.5	56		-	-	-	-	-	-	-	-	-	-
1.5 - 2	150		-	-	-	-	-	-	-	-	-	-
2 - 2.5	210		-	-	-	-	-	-	-	-	-	-
2.5 - 3	210		-	-	-	40.1	-	-	-	-	-	-
3 - 3.5	3350		-	-	-	-	25.7	17.4	23	16.7	23.2	24.3
3.5 - 4	210		-	-	-	-	-	-	-	-	-	-
4 - 4.5	92		-	-	-	-	-	-	-	-	-	-
4.5 - 5	670		44.4	569	670	-	24	11.7	24.8	16.5	198	13.5
5 - 5.5	92		-	-	-	-	-	-	-	-	-	-
5.5 - 6	92		-	-	-	-	-	-	-	-	-	-
6 - 6.5	80		-	-	-	-	-	-	-	-	-	-
6.5 - 7	9.6		-	-	-	-	-	-	-	-	-	-
7 - 7.5	13.6		-	-	-	-	-	-	-	-	-	-
7.5 - 8			-	-	-	-	-	-	-	-	-	-
8 - 8.5	3.3		-	-	-	-	-	-	-	-	-	-
9 - 9.5	18		-	-	-	16.5	-	-	-	-	-	-
10 - 10.5	12		-	-	-	-	-	-	-	-	-	-
11 - 11.5	12.9		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	10.17		12.94	13.02	12.91	13.23	11.75	12.13	11.70	11.69	14.31	12.69

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.V
SOIL CONCENTRATION PROFILE - AOC-09: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	TP9-3 7/20/1998	TP9-3-101 1/18/2011	TP9-3-203 4/27/2012	TP9-3-301 10/16/2012	TP9-3-302 10/16/2012	TP9-3-303 10/16/2012	TP9-3-304 10/16/2012	TP9-3-305 10/17/2012	WSO8 10/11/2002
0 - 0.5	555		-	-	-	9.6	31	52.7	192	37	-
0.5 - 1	234		100	234	-	-	-	-	-	-	-
1 - 1.5	56		-	-	-	-	-	-	-	-	55.6
1.5 - 2	150		-	-	-	-	-	-	-	-	-
2 - 2.5	210		-	-	-	-	-	-	-	-	-
2.5 - 3	210		-	9.9	6.6	-	-	-	-	-	-
3 - 3.5	3350		-	-	-	24.9	43	21	3350	109	-
3.5 - 4	210		-	-	-	-	-	-	-	-	-
4 - 4.5	92		-	-	-	-	-	-	-	-	-
4.5 - 5	670		-	-	-	24.2	17.9	14.2	265	139	-
5 - 5.5	92		-	-	-	-	-	-	-	-	-
5.5 - 6	92		-	-	-	-	-	-	-	-	-
6 - 6.5	80		-	-	-	-	-	-	-	-	-
6.5 - 7	9.6		-	-	-	-	-	-	-	-	-
7 - 7.5	13.6		-	-	-	-	-	-	-	-	-
7.5 - 8			-	-	-	-	-	-	-	-	-
8 - 8.5	3.3		-	-	-	-	-	-	-	-	-
9 - 9.5	18		18	-	7.1	-	-	-	-	-	-
10 - 10.5	12		-	-	-	-	-	-	-	-	-
11 - 11.5	12.9		-	-	-	-	-	-	-	-	-
Average Depth to Water	10.17		13.86	13.90	14.14	13.21	13.92	14.90	14.26	14.60	6.19

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VI
SOIL CONCENTRATION PROFILE - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B10-3 7/16/1998	B10-7 7/16/1998	B10-8 7/17/1998	B8-2 7/13/1998	B8-4-100 1/12/2011	B8-4-102 1/12/2011	B9-15 7/20/1998	B9-19 7/17/1998	HSO12 9/24/2002	HSO13 9/24/2002
0 - 0.5	741		-	-	19	85	56.6	67.3	240	250	117	398
0.5 - 1	398		-	-	-	-	-	-	-	-	-	-
1.5 - 2	1210		-	-	0	-	73.9	50.8	-	-	-	-
1 - 1.5	2400		-	-	-	-	-	-	-	-	-	-
2 - 2.5	916		290	-	-	-	-	-	-	-	-	-
2.5 - 3	420		290	-	-	-	-	-	-	-	-	-
3 - 3.5	420		290	-	-	-	-	-	-	-	-	-
3.5 - 4	922		290	0	-	670	-	-	-	-	-	-
4 - 4.5	1670		-	-	-	-	-	-	-	-	-	-
4.5 - 5	4000		-	-	-	-	-	-	-	-	-	-
5 - 5.5	1400		-	-	-	-	-	-	-	-	-	-
5.5 - 6	1960		-	-	-	-	-	-	-	-	-	-
6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
6.5 - 7	712		-	-	-	-	-	-	-	-	-	-
7.5 - 8	385		-	-	-	-	-	-	-	-	-	-
8 - 8.5			-	-	-	-	1810	1010	-	-	-	-
8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	7.87		10.22	5.66	5.45	9.45	9.11	8.72	8.18	8.10	8.06	7.73

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VI
SOIL CONCENTRATION PROFILE - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	HSO14 9/24/2002	MW-75 1/11/2011	SB-10-SO-1 2/16/1994	SB-10-SO-10-100 1/11/2011	SB-10-SO-10-101 1/11/2011	SB-10-SO-10-102 1/11/2011	SB-10-SO-10-103 1/11/2011	SB-10-SO-208 2/6/2014	SB-10-SO-209 2/6/2014	SB-10-SO-210 2/6/2014
0 - 0.5	741		65.7	11.7	62	183	369	168	362	-	-	-
0.5 - 1	398		-	-	62	-	-	-	-	-	-	-
1.5 - 2	1210		-	-	62	-	-	-	-	-	-	-
1 - 1.5	2400		-	-	62	-	-	-	-	-	-	-
2 - 2.5	916		-	-	-	-	-	-	-	-	-	-
2.5 - 3	420		-	-	-	-	-	-	-	-	-	-
3 - 3.5	420		-	-	-	179	235	138	227	-	-	-
3.5 - 4	922		-	-	-	-	-	-	-	-	-	-
4 - 4.5	1670		-	-	11	-	-	-	-	-	-	-
4.5 - 5	4000		-	-	11	229	462	249	231	-	-	-
5 - 5.5	1400		-	-	10	-	-	-	-	-	-	-
5.5 - 6	1960		-	-	10	-	-	410	-	-	-	-
6 - 6.5	793		-	-	-	793	-	-	-	-	-	-
6.5 - 7	712		-	-	-	-	712	-	468	-	-	-
7.5 - 8	385		-	-	-	-	-	-	-	-	-	-
8 - 8.5			-	-	-	-	-	-	-	-	-	-
8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	7.87		7.95	8.98	6.22	7.91	7.87	8.00	7.89	10.11	10.57	10.62

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VI
SOIL CONCENTRATION PROFILE - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-2-100 1/8/2011	SB-10-SO-2-101 1/8/2011	SB-10-SO-2-102 1/8/2011	SB-10-SO-2-103 1/8/2011	SB-10-SO-3 2/15/1994	SB-10-SO-4 2/11/1994	SB-10-SO-5-100 1/18/2011	SB-10-SO-5-101 1/10/2011	SB-10-SO-5-102 1/10/2011	SB-10-SO-5-103 1/10/2011
0 - 0.5	741		-	-	-	-	150	53	56.3	56.4	723	59.9
0.5 - 1	398		-	-	-	-	150	8.4	-	-	-	-
1.5 - 2	1210		-	-	-	-	190	8.4	1210	-	-	-
1 - 1.5	2400		-	-	-	-	190	8.4	-	1440	2400	477
2 - 2.5	916		-	-	-	-	-	-	-	-	-	-
2.5 - 3	420		-	-	-	-	-	-	-	-	-	-
3 - 3.5	420		-	-	-	-	26	-	-	-	-	-
3.5 - 4	922		26.1	265	7.2	152	26	-	-	-	-	-
4 - 4.5	1670		-	-	-	-	-	-	-	-	-	-
4.5 - 5	4000		-	-	-	-	-	-	333	112	81.9	234
5 - 5.5	1400		-	-	-	-	160	-	-	-	-	-
5.5 - 6	1960		20.4	14	8.1	9.5	160	-	-	-	-	-
6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
6.5 - 7	712		7.1	7.2	7.1	6	-	-	-	-	-	-
7.5 - 8	385		-	-	-	-	-	-	-	-	-	-
8 - 8.5			-	-	-	-	-	-	-	-	-	-
8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	7.87		7.60	7.59	7.64	7.55	7.90	4.59	6.64	6.60	6.66	6.65

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VI
SOIL CONCENTRATION PROFILE - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-5A-100 1/18/2011	SB-10-SO-5A-101 1/18/2011	SB-10-SO-5A-102 1/18/2011	SB-10-SO-7-100 1/19/2011	SB-10-SO-7-101 1/19/2011	SB-10-SO-7-102 1/19/2011	SB-10-SO-7-103 1/19/2011	SB-10-SO-9 2/14/1994	SB-AOC10-2013-100 2/22/2013	SB-AOC10-2013-101 2/22/2013
0 - 0.5	741		-	-	-	34.8	35.2	19.3	9.6	12	174	144
0.5 - 1	398		-	-	-	-	-	-	-	12	-	-
1.5 - 2	1210		-	-	-	-	-	-	-	9.9	-	-
1 - 1.5	2400		-	-	-	13.5	9.1	14.4	15.8	9.9	-	-
2 - 2.5	916		916	504	18	-	-	-	-	420	-	-
2.5 - 3	420		-	-	-	-	-	-	-	420	-	-
3 - 3.5	420		-	-	-	-	-	-	-	420	-	-
3.5 - 4	922		-	-	-	-	-	-	-	420	-	-
4 - 4.5	1670		-	-	-	-	-	-	-	300	-	-
4.5 - 5	4000		93.3	10.3	21.1	22.9	17.3	17.2	14.3	300	-	-
5 - 5.5	1400		-	-	-	-	-	-	-	300	237	312
5.5 - 6	1960		-	-	-	-	-	-	1960	300	-	-
6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
6.5 - 7	712		-	-	-	-	-	477	-	-	-	-
7.5 - 8	385		-	-	-	-	-	-	-	-	-	11
8 - 8.5			-	-	-	-	-	-	-	-	-	-
8.5 - 9	68.4		-	-	-	-	68.4	-	-	-	-	-
Average Depth to Water	7.87		5.79	5.81	5.80	8.89	9.00	8.89	8.83	9.20	7.34	9.30

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VI
SOIL CONCENTRATION PROFILE - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-102 2/22/2013	SB-AOC10-2013-103 2/22/2013	SB-AOC10-2013-104 2/22/2013	SB-AOC10-2013-105 2/22/2013	SB-AOC10-2013-106 2/22/2013	SB-AOC10-2013-107 2/22/2013	SB-AOC10-2013-108 2/22/2013	SB-AOC10-2013-109 2/22/2013	SB-AOC10-2013-110 2/22/2013	SB-AOC10-2013-111 2/22/2013
0 - 0.5	741		318	26.9	52.3	9.8	24.4	31.1	53.5	10.8	130	151
0.5 - 1	398		-	-	-	-	-	-	-	-	-	-
1.5 - 2	1210		-	-	-	-	-	-	-	-	-	-
1 - 1.5	2400		-	-	-	-	-	-	-	-	-	-
2 - 2.5	916		-	-	-	-	-	-	-	-	-	-
2.5 - 3	420		-	-	-	-	-	-	-	-	-	-
3 - 3.5	420		-	-	-	-	-	-	-	-	-	-
3.5 - 4	922		-	-	-	-	-	22.4	49.2	134	-	-
4 - 4.5	1670		-	-	-	-	-	-	-	-	-	-
4.5 - 5	4000		-	-	-	-	-	-	-	-	42	117
5 - 5.5	1400		3.4	139	21.4	63.6	1400	-	-	-	-	-
5.5 - 6	1960		-	-	-	-	-	-	-	-	-	-
6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
6.5 - 7	712		-	-	-	-	-	208	239	-	-	-
7.5 - 8	385		-	188	-	-	-	-	-	385	-	-
8 - 8.5			-	-	-	-	-	-	-	385	-	-
8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	7.87		7.13	9.27	9.43	8.26	8.24	8.30	9.72	9.53	9.20	9.17

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VI
SOIL CONCENTRATION PROFILE - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-112 2/22/2013	SB-AOC10-2013-113 2/22/2013	SB-AOC10-2013-114 2/22/2013	SB-AOC10-2013-115 2/21/2013	SB-AOC10-2013-116 2/21/2013	SB-AOC10-2013-117 2/21/2013	SB-AOC10-2013-118 2/21/2013	SB-AOC10-2013-119 2/21/2013	SB-AOC10-2013-120 2/21/2013	SB-AOC10-2013-121 2/21/2013
0 - 0.5	741		83.8	13.6	8.6	32	92	84.6	238	147	43.9	624
0.5 - 1	398		-	-	-	-	-	-	-	-	-	-
1.5 - 2	1210		-	-	-	-	-	-	-	-	-	-
1 - 1.5	2400		-	-	-	-	-	-	-	-	-	-
2 - 2.5	916		-	-	-	-	-	-	-	-	-	-
2.5 - 3	420		-	-	-	-	-	-	-	-	-	-
3 - 3.5	420		-	-	-	-	-	-	-	-	-	-
3.5 - 4	922		-	-	-	-	-	-	-	-	-	43.2
4 - 4.5	1670		-	-	-	-	378	484	1670	27.7	-	-
4.5 - 5	4000		13	309	23.4	4000	299	-	-	-	-	-
5 - 5.5	1400		-	-	-	-	-	-	-	-	-	-
5.5 - 6	1960		-	-	-	-	-	-	-	-	-	-
6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
6.5 - 7	712		-	-	-	-	-	-	-	-	-	8.9
7.5 - 8	385		-	-	-	-	-	10.7	-	-	-	-
8 - 8.5			-	-	-	-	-	-	-	-	-	-
8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	7.87		9.23	8.30	8.94	7.92	8.64	8.04	6.64	7.30	5.75	7.18

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VI
SOIL CONCENTRATION PROFILE - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-122 2/21/2013	SB-AOC10-2013-123 2/21/2013	SB-AOC10-2013-124 2/21/2013	SB-AOC10-2013-125 2/21/2013	SB-AOC10-2013-126 2/21/2013	SB-AOC10-2013-127 2/21/2013	SB-AOC10-2013-128 2/21/2013	SB-AOC10-2013-129 2/21/2013	WSO12 7/17/2003	WSO13 7/17/2003
0 - 0.5	741		741	73.2	-	115	577	319	175	11.9	326	153
0.5 - 1	398		-	-	398	-	-	-	-	-	-	-
1.5 - 2	1210		-	-	398	-	-	-	-	-	-	-
1 - 1.5	2400		-	-	398	-	-	-	-	-	-	-
2 - 2.5	916		-	-	398	-	-	-	-	-	-	-
2.5 - 3	420		-	-	398	-	-	-	-	-	-	-
3 - 3.5	420		-	-	398	-	-	-	-	-	-	-
3.5 - 4	922		9.3	32.2	398	36.6	52.1	922	620	313	-	-
4 - 4.5	1670		-	-	-	-	-	-	-	-	-	-
4.5 - 5	4000		-	-	-	-	-	-	-	-	-	-
5 - 5.5	1400		-	-	-	-	-	-	-	-	-	-
5.5 - 6	1960		-	-	-	-	-	-	-	-	-	-
6 - 6.5	793		-	-	-	-	-	-	-	-	-	-
6.5 - 7	712		27.2	13.9	9.3	12.1	5.2	6.9	6.4	4.3	-	-
7.5 - 8	385		-	-	-	-	-	-	-	-	-	-
8 - 8.5			-	-	-	-	-	-	-	-	-	-
8.5 - 9	68.4		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	7.87		6.74	6.62	7.29	7.98	9.18	8.46	7.29	6.71	9.33	7.57

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VI
SOIL CONCENTRATION PROFILE - AOC-10: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	WSO14 7/17/2003	WSO15 7/17/2003	WSO6 10/11/2002	WSO7 10/11/2002	WSO9 10/11/2002
0 - 0.5	741		94.8	32.4	16.1	-	-
0.5 - 1	398		-	-	-	-	9.1
1.5 - 2	1210		-	-	-	-	-
1 - 1.5	2400		-	-	-	46.4	-
2 - 2.5	916		-	-	-	-	-
2.5 - 3	420		-	-	-	-	-
3 - 3.5	420		-	-	-	-	-
3.5 - 4	922		-	-	-	-	-
4 - 4.5	1670		-	-	-	-	-
4.5 - 5	4000		-	8.6	-	-	-
5 - 5.5	1400		-	-	-	-	-
5.5 - 6	1960		-	-	-	-	-
6 - 6.5	793		-	-	-	-	-
6.5 - 7	712		-	-	-	-	-
7.5 - 8	385		-	-	-	-	-
8 - 8.5			-	-	-	-	-
8.5 - 9	68.4		-	-	-	-	-
Average Depth to Water	7.87		5.17	5.77	5.28	9.45	6.34

- Notes:**
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VII
SOIL CONCENTRATION PROFILE - AOC-11: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	BF-S13 10/23/2000	BF-S21 10/23/2000	BF-S22 10/23/2000	CSO1 10/2/2002	CSO2 10/2/2002	CSO3 10/2/2002	MW-16C 1/6/2011	MW-66 2/23/2011	MW-67 2/23/2011	MW-68 2/23/2011
0-0.5 ft	228		92.8	52.2	44.5	-	26	29.3	78.7	53.3	19.7	88.4
0.5-1 ft	15		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	22.6		-	-	-	22.6	12.8	19.1	-	-	-	-
1.5-2 ft	6.7		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	7.1		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	31.4		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	19.4		-	-	-	-	-	-	-	-	-	-
7.5-8 ft	10.4		-	-	-	-	-	-	-	-	-	10.4
8-8.5 ft	1		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	6.17		2.046562195	3.113327026	3.227706909	5.328056335	7.050674438	6.522407532	5.020088196	4.475143433	6.435562134	12.16011047

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VII
SOIL CONCENTRATION PROFILE - AOC-11: LEAD
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	MW-71 2/23/2011	SB-10-SO-8 2/11/1994	SB-11-SO-200 4/25/2012	SB-11-SO-201 4/25/2012	WSO3 10/2/2002	WSO4 10/2/2002
0-0.5 ft	228		18.3	15	8.7	228	-	-
0.5-1 ft	15		-	15	-	-	-	-
1-1.5 ft	22.6		-	15	-	-	-	-
1.5-2 ft	6.7		-	6.7	-	-	-	-
2-2.5 ft	7.1		-	6.7	-	-	-	7.1
2.5-3 ft	31.4		-	6.7	-	-	31.4	-
3.5-4 ft	19.4		-	-	13.7	19.4	-	-
7.5-8 ft	10.4		-	-	-	-	-	-
8-8.5 ft	1		1	-	-	-	-	-
Average Depth to Water	6.17		9.901618958	5.95149231	4.753646851	7.536201477	11.96399689	3.226631165

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VIII
SOIL CONCENTRATION PROFILE - AOC-08B: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-4 7/14/1998	B8-4-101 1/12/2011	B8-4-103 1/17/2011	B8-6-100 1/17/2011	B8-6-101 1/17/2011	B8-6-102 1/17/2011	B8-6-103 1/17/2011	B8-7 7/15/1998	B8-8 7/15/1998	B8-8-1-100 1/19/2011
0-0.5 ft	17		0.23	-	0.26	-	-	-	-	0.074	0.071	0.094
0.5-1 ft	6.9		-	-	-	0.61	2.6	6.4	2.5	-	-	-
1-1.5 ft	18		-	-	-	-	-	-	-	-	-	0
1.5-2 ft	16		-	-	0	-	-	-	-	-	-	-
2-2.5 ft	14		-	-	-	0.75	0.063	1.9	0.38	-	-	-
2.5-3 ft	0		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.2		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	6.5		-	-	-	-	-	-	-	-	-	-
5-5.5 ft	0		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	1.4		-	-	-	-	1.4	-	-	-	-	-
6-6.5 ft	2.1		2.1	-	-	0	-	0.36	0	-	-	-
6.5-7 ft	2.1		2.1	-	-	-	-	-	-	-	-	-
7-7.5 ft	3		2.1	-	-	-	-	-	-	-	-	0.36
7.5-8 ft	8		2.1	-	-	-	-	-	-	-	-	0.36
8-8.5 ft	0.85		-	0.26	0.85	-	-	-	-	-	-	-
9-9.5 ft	-		-	-	-	-	-	-	-	0	0.4	-
9.5-10 ft	4.3		-	-	-	0	-	-	-	0	0.4	0.45
10-10.5 ft	0.35		-	-	-	-	-	-	-	-	-	-
10.5-11 ft	12		-	-	-	-	-	-	-	-	-	-
11-11.5 ft	0.84		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	11.46		9.75	9.52	9.01	9.69	9.69	9.80	10.65	12.40	13.15	14.55

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VIII
SOIL CONCENTRATION PROFILE - AOC-08B: BENZO(A)A
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-1-101 1/19/2011	B8-8-1-102 1/19/2011	B8-8-1-103 1/19/2011	B8-8-2-100 1/19/2011	B8-8-2-101 1/19/2011	B8-8-2-102 1/19/2011	B8-8-3 1/18/2008	B8-8-4-100 1/17/2011	B8-8-4-101 1/17/2011	B8-8-4-102 1/18/2011
0-0.5 ft	17		0	0.064	0.057	0.62	0.13	0.26	14	0.063	0	0.066
0.5-1 ft	6.9		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	18		0	-	-	0	0	0	-	0.082	0.071	0.017
1.5-2 ft	16		-	0.037	0.02	-	-	-	-	-	-	-
2-2.5 ft	14		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	0		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.2		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	6.5		-	-	-	-	-	-	-	-	-	-
5-5.5 ft	0		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	1.4		-	-	-	-	-	-	-	0.86	-	-
6-6.5 ft	2.1		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	2.1		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	3		0.28	3	0.058	0	1.2	0.27	-	-	0	-
7.5-8 ft	8		0.28	3	-	0	1.2	0.27	-	-	-	0.044
8-8.5 ft	0.85		-	-	-	-	-	-	-	-	-	-
9-9.5 ft	-		-	-	-	-	-	-	0.078	-	-	-
9.5-10 ft	4.3		-	-	-	4.3	-	1	-	-	-	-
10-10.5 ft	0.35		-	-	-	-	-	-	-	-	-	-
10.5-11 ft	12		0.33	0.43	-	-	12	-	-	-	-	-
11-11.5 ft	0.84		-	-	-	-	-	-	-	-	-	0.39
Average Depth to Water	11.46		14.68	14.79	14.42	13.05	13.11	13.02	11.08	14.21	13.46	14.46

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VIII
SOIL CONCENTRATION PROFILE - AOC-08B: BENZO(A)A
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-4-103 1/18/2011	JSO11-100 1/14/2011	JSO11-101 1/14/2011	JSO11-102 1/14/2011	JSO11-103 1/14/2011	JSO12-100 1/14/2011	JSO12-101 1/14/2011	JSO12-102 1/14/2011	JSO22 10/3/2002	JSO23 10/3/2002
0-0.5 ft	17		0.066	-	-	-	-	-	-	-	-	0.24
0.5-1 ft	6.9		-	3.6	3.4	3.3	1.4	2.8	0.12	0.74	-	-
1-1.5 ft	18		0	-	-	-	-	-	-	-	-	-
1.5-2 ft	16		-	-	-	4.3	-	-	-	-	-	-
2-2.5 ft	14		-	0.24	4.3	-	1.1	0.074	0.058	0	-	-
2.5-3 ft	0		-	0	-	-	-	-	-	-	-	-
3-3.5 ft	1.2		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	6.5		-	-	-	-	-	0.36	-	-	0	0
5-5.5 ft	0		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	1.4		-	-	-	-	0	0	0.53	1	-	-
6-6.5 ft	2.1		-	-	1.5	-	-	-	-	-	-	-
6.5-7 ft	2.1		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	3		-	-	-	-	-	-	-	-	-	-
7.5-8 ft	8		0	-	-	-	-	-	-	-	-	-
8-8.5 ft	0.85		-	-	-	-	-	-	-	-	-	-
9-9.5 ft			-	-	-	-	-	-	-	-	-	-
9.5-10 ft	4.3		-	-	2.2	-	-	-	-	-	-	-
10-10.5 ft	0.35		-	-	-	-	-	-	-	-	-	-
10.5-11 ft	12		-	-	-	-	-	-	-	-	-	-
11-11.5 ft	0.84		0.024	-	-	-	-	-	-	-	-	-
Average Depth to Water	11.46		12.86	9.99	10.04	9.99	9.94	9.98	9.27	9.93	16.25	17.33

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VIII
SOIL CONCENTRATION PROFILE - AOC-08B: BENZO(A)A
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-8-SO-11-100 1/14/2011	SB-8-SO-11-101 1/14/2011	SB-8-SO-11-102 1/14/2011	SB-8-SO-11-103 1/14/2011	SB-8-SO-12-100 1/17/2011	SB-8-SO-12-101 1/17/2011	SB-8-SO-12-102 1/17/2011	SB-8-SO-12-103 1/17/2011	SB-8-SO-14-100 1/17/2011	SB-8-SO-14-101 1/17/2011
0-0.5 ft	17		-	-	-	-	-	-	-	-	0.05	0.35
0.5-1 ft	6.9		0.74	0.8	0.45	1.4	6.9	5.2	2.8	1.3	-	-
1-1.5 ft	18		-	-	-	-	-	-	-	-	0.037	0.032
1.5-2 ft	16		-	16	-	-	2.9	1.7	1.8	6	0.037	-
2-2.5 ft	14		0.33	-	9.7	14	-	-	-	-	0.037	-
2.5-3 ft	0		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.2		-	-	1.2	-	-	-	-	-	-	-
3.5-4 ft	6.5		-	-	-	6.5	-	-	-	-	-	-
5-5.5 ft	0		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	1.4		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	2.1		0.19	-	-	-	-	-	-	-	-	-
6.5-7 ft	2.1		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	3		-	-	-	-	-	-	-	-	1.3	0.22
7.5-8 ft	8		-	-	-	-	2.1	-	-	-	1.3	0.22
8-8.5 ft	0.85		-	-	-	-	-	-	-	-	-	-
9-9.5 ft			-	-	-	-	-	-	-	-	-	-
9.5-10 ft	4.3		-	-	-	-	-	-	-	-	-	-
10-10.5 ft	0.35		-	-	-	-	-	0.35	-	-	0.24	-
10.5-11 ft	12		-	-	-	-	-	-	-	-	-	-
11-11.5 ft	0.84		-	-	-	-	-	-	-	-	-	0.84
Average Depth to Water	11.46		9.25	9.27	9.18	9.28	10.03	10.13	9.56	9.61	13.16	12.19

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.VIII
SOIL CONCENTRATION PROFILE - AOC-08B: BENZO(A)A
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC8B-2013-100 2/25/2013	SB-AOC8B-2013-101 2/25/2013	SB-AOC8B-2013-102 2/25/2013	SB-AOC8B-2013-103 2/25/2013	SB-AOC8B-2013-104 2/25/2013	SB-AOC8B-2013-105 2/25/2013	SB-AOC8B-2013-106 2/25/2013	SB-AOC8B-2013-107 2/25/2013	SB-AOC8B-2013-108 2/25/2013	SB-AOC8B-2013-109 2/25/2013
0-0.5 ft	17		0.2	0.23	17	3.5	4.2	5.7	1.4	1.3	1	12
0.5-1 ft	6.9		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	18		0.019	0.11	5	18	18	1.2	5	6.3	0.47	3.3
1.5-2 ft	16		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	14		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	0		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.2		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	6.5		-	-	-	-	-	-	-	-	-	-
5-5.5 ft	0		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	1.4		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	2.1		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	2.1		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	3		-	-	-	-	-	-	-	-	-	-
7.5-8 ft	8		-	-	-	-	-	-	1.1	8	0.24	-
8-8.5 ft	0.85		-	-	-	-	-	-	-	-	-	-
9-9.5 ft			-	-	-	-	-	-	-	-	-	-
9.5-10 ft	4.3		0	0.2	1.1	0	3.2	0	-	-	-	3
10-10.5 ft	0.35		-	-	-	-	-	-	-	-	-	-
10.5-11 ft	12		-	-	-	-	-	-	-	-	-	-
11-11.5 ft	0.84		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	11.46		17.86	12.62	11.45	11.27	10.20	10.66	8.98	8.55	8.54	11.19

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IX
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)ANTHRACENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B10-3 7/16/1998	B10-7 7/16/1998	B10-8 7/17/1998	B8-2 7/13/1998	B8-3-100 1/9/2011	B8-3-101 1/9/2011	B8-3-102 1/9/2011	B8-3-103 1/9/2011	B8-4-100 1/12/2011	B8-4-102 1/12/2011
0-0.5 ft	14		-	-	0	0.31	0	0	0	0	1.1	2.2
0.5-1 ft	0.54		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	6.4		-	-	-	-	-	-	-	-	-	-
1.5-2 ft	1.8		-	-	0	-	-	-	-	-	1.8	1.3
2-2.5 ft	1.4		0.41	-	-	-	-	-	-	-	-	-
2.5-3 ft	1.4		0.41	-	-	-	0.11	0.62	1.4	0.21	-	-
3-3.5 ft	1.4		0.41	-	-	-	-	-	-	-	-	-
3.5-4 ft	1.4		0.41	0	-	1.3	-	-	-	-	-	-
4-4.5 ft	4.9		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	5.9		-	-	-	-	-	-	-	-	-	-
5-5.5 ft	1.6		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.93		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	17		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft			-	-	-	-	-	-	-	-	-	-
8-8.5 ft	2.5		-	-	-	-	-	-	-	-	2.5	0
8.5-9 ft	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		10.22	5.66	5.45	9.45	8.62	8.57	8.72	8.63	9.11	8.72

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IX
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)AN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B9-19 7/17/1998	HSO12 9/24/2002	HSO13 9/24/2002	HSO14 9/24/2002	MW-62 11/11/2010	MW-63 11/11/2010	MW-64 11/12/2010	MW-75 1/11/2011	SB-10-SO-1 2/16/1994	SB-10-SO-10-100 1/11/2011
0-0.5 ft	14		0.4	0.63	0.096	0.2	0.39	0.37	0.69	0	0.54	0.18
0.5-1 ft	0.54		-	-	-	-	-	-	-	-	0.54	-
1-1.5 ft	6.4		-	-	-	-	-	-	-	-	0.54	-
1.5-2 ft	1.8		-	-	-	-	-	-	-	-	0.54	-
2-2.5 ft	1.4		-	-	-	-	-	0.1	0.054	-	-	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	-	-	-	-	-	-	-	0.33
3.5-4 ft	1.4		-	-	-	-	-	-	-	-	-	-
4-4.5 ft	4.9		-	-	-	-	-	-	-	-	0	-
4.5-5 ft	5.9		-	-	-	-	-	-	-	-	0	0.11
5-5.5 ft	1.6		-	-	-	-	0	-	-	-	0	-
5.5-6 ft	0.93		-	-	-	-	-	-	-	-	0	-
6-6.5 ft	0		-	-	-	-	-	-	-	-	-	0
6.5-7 ft	17		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft			-	-	-	-	-	-	-	-	-	-
8-8.5 ft	2.5		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		8.10	8.06	7.73	7.95	8.15	6.70	8.59	8.98	6.22	7.91

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IX
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)AN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-10-101 1/11/2011	SB-10-SO-10-102 1/11/2011	SB-10-SO-10-103 1/11/2011	SB-10-SO-11-100 1/11/2011	SB-10-SO-11-101 1/11/2011	SB-10-SO-11-102 1/11/2011	SB-10-SO-11-103 1/11/2011	SB-10-SO-205 12/13/2013	SB-10-SO-206 12/13/2013	SB-10-SO-208 2/6/2014
0-0.5 ft	14		0.089	0	0	0.08	0.31	0.22	0.42	-	-	-
0.5-1 ft	0.54		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	6.4		-	-	-	0.43	0.29	0.6	0.73	-	-	-
1.5-2 ft	1.8		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		0	0	0	-	-	-	-	-	-	-
3.5-4 ft	1.4		-	-	-	-	-	-	-	-	-	-
4-4.5 ft	4.9		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	5.9		0	0	0.25	0	0.72	0.28	0.59	-	-	-
5-5.5 ft	1.6		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.93		-	0	-	0.11	0.58	0.16	0.93	-	-	-
6-6.5 ft	0		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	17		0.26	-	0.39	-	-	-	-	17	6	-
7-7.5 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft			-	-	-	-	-	-	-	-	-	-
8-8.5 ft	2.5		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		7.87	8.00	7.89	5.86	5.84	5.94	5.77	8.73	8.64	10.11

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IX
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)AN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-209 2/6/2014	SB-10-SO-210 2/6/2014	SB-10-SO-2-100 1/8/2011	SB-10-SO-2-101 1/8/2011	SB-10-SO-2-102 1/8/2011	SB-10-SO-2-103 1/8/2011	SB-10-SO-215 12/13/2013	SB-10-SO-216 12/13/2013	SB-10-SO-217 12/13/2013	SB-10-SO-3 2/15/1994
0-0.5 ft	14		-	-	-	-	-	-	-	-	-	0.53
0.5-1 ft	0.54		-	-	-	-	-	-	-	-	-	0.53
1-1.5 ft	6.4		-	-	-	-	-	-	0.054	0.12	1.7	0.34
1.5-2 ft	1.8		-	-	-	-	-	-	0.035	-	-	0.34
2-2.5 ft	1.4		-	-	-	-	-	-	-	-	0.095	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	-	-	-	-	-	-	-	0
3.5-4 ft	1.4		-	-	0.47	0	0.018	0.079	-	-	-	0
4-4.5 ft	4.9		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	5.9		-	-	-	-	-	-	-	-	-	-
5-5.5 ft	1.6		-	-	-	-	-	-	-	-	-	0
5.5-6 ft	0.93		-	-	0	0	0	0	-	-	-	0
6-6.5 ft	0		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	17		-	-	0	0	0	0	-	-	-	-
7-7.5 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft			-	-	-	-	-	-	-	-	-	-
8-8.5 ft	2.5		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		10.57	10.62	7.60	7.59	7.64	7.55	18.98	20.16	20.37	7.90

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IX
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)AN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-4 2/11/1994	SB-10-SO-5-100 1/18/2011	SB-10-SO-5-101 1/10/2011	SB-10-SO-5-102 1/10/2011	SB-10-SO-5-103 1/10/2011	SB-10-SO-5A-100 1/18/2011	SB-10-SO-5A-101 1/18/2011	SB-10-SO-5A-102 1/18/2011	SB-10-SO-7-100 1/19/2011	SB-10-SO-7-101 1/19/2011
0-0.5 ft	14		0.13	0.061	0.11	0.27	0.12	-	-	-	0.37	0.38
0.5-1 ft	0.54		0	-	-	-	-	-	-	-	-	-
1-1.5 ft	6.4		0	-	6.1	0	0	-	-	-	6.4	0
1.5-2 ft	1.8		0	0.52	-	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	-	-	-	-	0.25	0.073	0.1	-	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	1.4		-	-	-	-	-	-	-	-	-	-
4-4.5 ft	4.9		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	5.9		-	0.072	0.21	0.15	0.32	0.49	0.081	0.36	0	0
5-5.5 ft	1.6		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.93		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	17		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft			-	-	-	-	-	-	-	-	-	-
8-8.5 ft	2.5		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.057		-	-	-	-	-	-	-	-	-	0.057
Average Depth to Water	8.31		4.59	6.64	6.60	6.66	6.65	5.79	5.81	5.80	8.89	9.00

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IX
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)AN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-7-102 1/19/2011	SB-10-SO-7-103 1/19/2011	SB-10-SO-9 2/14/1994	SB-10-SO-9-100 1/20/2011	SB-10-SO-9-101 1/20/2011	SB-10-SO-9-102 1/20/2011	SB-10-SO-9-103 1/20/2011	SB-AOC10-2013-100 2/22/2013	SB-AOC10-2013-101 2/22/2013	SB-AOC10-2013-102 2/22/2013
0-0.5 ft	14		0.18	0.045	0	0	0	0	0	0.7	0.34	2.1
0.5-1 ft	0.54		-	-	0	-	-	-	-	-	-	-
1-1.5 ft	6.4		0	0	0	-	-	-	-	-	-	-
1.5-2 ft	1.8		-	-	0	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	-	1.4	0	0	0	0	-	-	-
2.5-3 ft	1.4		-	-	1.4	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	1.4	-	-	-	-	-	-	-
3.5-4 ft	1.4		-	-	1.4	-	-	-	-	-	-	-
4-4.5 ft	4.9		-	-	0.23	0	0	0	0	-	-	-
4.5-5 ft	5.9		0.19	0.078	0.23	-	-	-	-	-	-	-
5-5.5 ft	1.6		-	-	0.23	-	-	-	-	1.6	0.19	0
5.5-6 ft	0.93		-	0.32	0.23	-	-	-	-	-	-	-
6-6.5 ft	0		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	17		0.39	-	-	-	-	-	-	-	-	-
7-7.5 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft			-	-	-	-	-	-	-	-	0	-
8-8.5 ft	2.5		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		8.89	8.83	9.20	9.64	9.49	9.63	9.71	7.34	9.30	7.13

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IX
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)AN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-103 2/22/2013	SB-AOC10-2013-104 2/22/2013	SB-AOC10-2013-105 2/22/2013	SB-AOC10-2013-106 2/22/2013	SB-AOC10-2013-107 2/22/2013	SB-AOC10-2013-108 2/22/2013	SB-AOC10-2013-109 2/22/2013	SB-AOC10-2013-110 2/22/2013	SB-AOC10-2013-111 2/22/2013	SB-AOC10-2013-112 2/22/2013
0-0.5 ft	14		0.22	0.18	0.036	0.1	0.54	2.3	0	6.1	1.2	0
0.5-1 ft	0.54		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	6.4		-	-	-	-	-	-	-	-	-	-
1.5-2 ft	1.8		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	1.4		-	-	-	-	0.04	0.5	0.15	-	-	-
4-4.5 ft	4.9		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	5.9		-	-	-	-	-	-	-	4	0.62	0.066
5-5.5 ft	1.6		0.051	0.047	0	0.46	-	-	-	-	-	-
5.5-6 ft	0.93		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	17		-	-	-	-	0.12	7.7	-	-	-	-
7-7.5 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft			2.8	-	-	-	-	-	1.2	-	-	-
8-8.5 ft	2.5		-	-	-	-	-	-	1.2	-	-	-
8.5-9 ft	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		9.27	9.43	8.26	8.24	8.30	9.72	9.53	9.20	9.17	9.23

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IX
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)AN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-113 2/22/2013	SB-AOC10-2013-114 2/22/2013	SB-AOC10-2013-115 2/21/2013	SB-AOC10-2013-116 2/21/2013	SB-AOC10-2013-117 2/21/2013	SB-AOC10-2013-118 2/21/2013	SB-AOC10-2013-119 2/21/2013	SB-AOC10-2013-120 2/21/2013	SB-AOC10-2013-121 2/21/2013	SB-AOC10-2013-122 2/21/2013
0-0.5 ft	14		0.08	0.025	0.69	14	1.7	0.43	0.36	0.65	0.13	0.37
0.5-1 ft	0.54		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	6.4		-	-	-	-	-	-	-	-	-	-
1.5-2 ft	1.8		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	1.4		-	-	-	-	-	-	-	-	0.23	0
4-4.5 ft	4.9		-	-	-	-	4.9	0.38	0.3	0.58	-	-
4.5-5 ft	5.9		0.85	0	5.9	1	-	-	-	-	-	-
5-5.5 ft	1.6		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.93		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	17		-	-	-	-	-	-	-	-	0	0.52
7-7.5 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft			-	-	-	-	0	-	-	-	-	-
8-8.5 ft	2.5		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		8.30	8.94	7.92	8.64	8.04	6.64	7.30	5.75	7.18	6.74

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IX
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)AN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-123 2/21/2013	SB-AOC10-2013-124 2/21/2013	SB-AOC10-2013-125 2/21/2013	SB-AOC10-2013-126 2/21/2013	SB-AOC10-2013-127 2/21/2013	SB-AOC10-2013-128 2/21/2013	SB-AOC10-2013-129 2/21/2013	WSO2 10/2/2002	WSO6 10/11/2002	WSO7 10/11/2002
0-0.5 ft	14		0.29	-	0.19	1.4	0.72	0.27	0.041	0.1	0.26	-
0.5-1 ft	0.54		-	0.36	-	-	-	-	-	-	-	-
1-1.5 ft	6.4		-	0.36	-	-	-	-	-	-	-	0.18
1.5-2 ft	1.8		-	0.36	-	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	0.36	-	-	-	-	-	-	-	-
2.5-3 ft	1.4		-	0.36	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	0.36	-	-	-	-	-	-	-	-
3.5-4 ft	1.4		0.85	0.81	0	0.024	0.2	0.056	0.26	-	-	-
4-4.5 ft	4.9		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	5.9		-	-	-	-	-	-	-	-	-	-
5-5.5 ft	1.6		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.93		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	17		0	0	0	0	0	0	0	-	-	-
7-7.5 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft			-	-	-	-	-	-	-	-	-	-
8-8.5 ft	2.5		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.057		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		6.62	7.29	7.98	9.18	8.46	7.29	6.71	4.78	5.28	9.45

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.IX
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)AN
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	WSO9 10/11/2002
0-0.5 ft	14		-
0.5-1 ft	0.54		0
1-1.5 ft	6.4		-
1.5-2 ft	1.8		-
2-2.5 ft	1.4		-
2.5-3 ft	1.4		-
3-3.5 ft	1.4		-
3.5-4 ft	1.4		-
4-4.5 ft	4.9		-
4.5-5 ft	5.9		-
5-5.5 ft	1.6		-
5.5-6 ft	0.93		-
6-6.5 ft	0		-
6.5-7 ft	17		-
7-7.5 ft	0		-
7.5-8 ft			-
8-8.5 ft	2.5		-
8.5-9 ft	0.057		-
Average Depth to Water	8.31		6.34

- Notes:**
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.X
SOIL CONCENTRATION PROFILE - AOC-01D: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	PL10-102 12/6/2010	RW-100 5/31/2012	RW-101 5/31/2012	RW-102 5/30/2012
0.5-1 ft	0.15		0.15	-	-	0.045
1-1.5 ft	0		-	-	0	-
1.5-2 ft	0		-	0	-	-
3-3.5 ft	0.3		0.3	-	-	-
4.5-5 ft	0		-	0	-	-
Average Depth to Water	4.14		5.24	6.77	1.54	3.01

- Notes:**
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XI
SOIL CONCENTRATION PROFILE - AOC-08B: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-4 7/14/1998	B8-4-101 1/12/2011	B8-4-103 1/17/2011	B8-6-100 1/17/2011	B8-6-101 1/17/2011	B8-6-102 1/17/2011	B8-6-103 1/17/2011	B8-7 7/15/1998	B8-8 7/15/1998	B8-8-1-100 1/19/2011
0-0.5 ft	21		0.26	-	0.28	-	-	-	-	0.085	0.079	0.13
0.5-1 ft	6.9		-	-	-	0.65	2.6	6.1	2.7	-	-	-
1-1.5 ft	18		-	-	-	-	-	-	-	-	-	0
1.5-2 ft	15		-	-	0	-	-	-	-	-	-	-
2-2.5 ft	13		-	-	-	0.46	0.059	1.9	0.39	-	-	-
2.5-3 ft	0		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.3		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	2.7		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.62		-	-	-	-	0	-	-	-	-	-
6-6.5 ft	0.49		0.49	-	-	0	-	0.32	0	-	-	-
6.5-7 ft	0.49		0.49	-	-	-	-	-	-	-	-	-
7-7.5 ft	2.7		0.49	-	-	-	-	-	-	-	-	0.31
7.5-8 ft	7.4		0.49	-	-	-	-	-	-	-	-	0.31
8-8.5 ft	0.52		-	0	0.52	-	-	-	-	-	-	-
8.5-9 ft	0		-	-	-	-	-	-	-	-	-	-
9-9.5 ft	-		-	-	-	-	-	-	-	0	0.19	-
9.5-10 ft	2.6		-	-	-	0	-	-	-	0	0.19	0.46
10-10.5 ft	0.27		-	-	-	-	-	-	-	-	-	-
10.5-11 ft	6.5		-	-	-	-	-	-	-	-	-	-
11-11.5 ft	0.54		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	11.46		9.75	9.52	9.01	9.69	9.69	9.80	10.65	12.40	13.15	14.55

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XI
SOIL CONCENTRATION PROFILE - AOC-08B: BENZO(A)P'
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-1-101 1/19/2011	B8-8-1-102 1/19/2011	B8-8-1-103 1/19/2011	B8-8-2-100 1/19/2011	B8-8-2-101 1/19/2011	B8-8-2-102 1/19/2011	B8-8-3 1/18/2008	B8-8-4-100 1/17/2011	B8-8-4-101 1/17/2011	B8-8-4-102 1/18/2011
0-0.5 ft	21		0	0.071	0.058	0.7	0.1	0.24	21	0.063	0	0.055
0.5-1 ft	6.9		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	18		0	-	-	0	0.14	0	-	0.07	0.056	0.01
1.5-2 ft	15		-	0.03	0.011	-	-	-	-	-	-	-
2-2.5 ft	13		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	0		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.3		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	2.7		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.62		-	-	-	-	-	-	-	0.62	-	-
6-6.5 ft	0.49		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	0.49		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	2.7		0.26	2.7	0.038	0	0	0	-	-	0	-
7.5-8 ft	7.4		0.26	2.7	-	0	0	0	-	-	-	0.024
8-8.5 ft	0.52		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0		-	-	-	-	-	-	-	-	-	-
9-9.5 ft			-	-	-	-	-	-	0.11	-	-	-
9.5-10 ft	2.6		-	-	-	1.7	-	0	-	-	-	-
10-10.5 ft	0.27		-	-	-	-	-	-	-	-	-	-
10.5-11 ft	6.5		0.19	0.71	-	-	6.5	-	-	-	-	-
11-11.5 ft	0.54		-	-	-	-	-	-	-	-	-	0.12
Average Depth to Water	11.46		14.68	14.79	14.42	13.05	13.11	13.02	11.08	14.21	13.46	14.46

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XI
SOIL CONCENTRATION PROFILE - AOC-08B: BENZO(A)P'
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B8-8-4-103 1/18/2011	JSO11-100 1/14/2011	JSO11-101 1/14/2011	JSO11-102 1/14/2011	JSO11-103 1/14/2011	JSO12-100 1/14/2011	JSO12-101 1/14/2011	JSO12-102 1/14/2011	JSO22 10/3/2002	JSO23 10/3/2002
0-0.5 ft	21		0.055	-	-	-	-	-	-	-	-	0.25
0.5-1 ft	6.9		-	3.8	3.3	3.3	1.5	2.8	0.14	0.77	-	-
1-1.5 ft	18		0.0091	-	-	-	-	-	-	-	-	-
1.5-2 ft	15		-	-	-	4.7	-	-	-	-	-	-
2-2.5 ft	13		-	0.23	4	-	0.38	0.079	0.074	0	-	-
2.5-3 ft	0		-	0	-	-	-	-	-	-	-	-
3-3.5 ft	1.3		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	2.7		-	-	-	-	-	0.19	-	-	0	0
5.5-6 ft	0.62		-	-	-	-	0	0	0.28	0.38	-	-
6-6.5 ft	0.49		-	-	0	-	-	-	-	-	-	-
6.5-7 ft	0.49		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	2.7		-	-	-	-	-	-	-	-	-	-
7.5-8 ft	7.4		0	-	-	-	-	-	-	-	-	-
8-8.5 ft	0.52		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0		-	-	-	-	-	-	-	-	-	-
9-9.5 ft			-	-	-	-	-	-	-	-	-	-
9.5-10 ft	2.6		-	-	0	-	-	-	-	-	-	-
10-10.5 ft	0.27		-	-	-	-	-	-	-	-	-	-
10.5-11 ft	6.5		-	-	-	-	-	-	-	-	-	-
11-11.5 ft	0.54		0.013	-	-	-	-	-	-	-	-	-
Average Depth to Water	11.46		12.86	9.99	10.04	9.99	9.94	9.98	9.27	9.93	16.25	17.33

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XI
SOIL CONCENTRATION PROFILE - AOC-08B: BENZO(A)P'
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-8-SO-11-100 1/14/2011	SB-8-SO-11-101 1/14/2011	SB-8-SO-11-102 1/14/2011	SB-8-SO-11-103 1/14/2011	SB-8-SO-12-100 1/17/2011	SB-8-SO-12-101 1/17/2011	SB-8-SO-12-102 1/17/2011	SB-8-SO-12-103 1/17/2011	SB-8-SO-14-100 1/17/2011	SB-8-SO-14-101 1/17/2011
0-0.5 ft	21		-	-	-	-	-	-	-	-	0.054	0.35
0.5-1 ft	6.9		0.79	0.9	0.52	1.5	6.9	4.6	2.8	1.4	-	-
1-1.5 ft	18		-	-	-	-	-	-	-	-	0	0.025
1.5-2 ft	15		-	15	-	-	2.9	1.6	1.7	6	0	-
2-2.5 ft	13		0.27	-	10	13	-	-	-	-	0	-
2.5-3 ft	0		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.3		-	-	1.3	-	-	-	-	-	-	-
3.5-4 ft	2.7		-	-	-	2.7	-	-	-	-	-	-
5.5-6 ft	0.62		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0.49		0	-	-	-	-	-	-	-	-	-
6.5-7 ft	0.49		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	2.7		-	-	-	-	-	-	-	-	0.54	0.12
7.5-8 ft	7.4		-	-	-	-	2	-	-	-	0.54	0.12
8-8.5 ft	0.52		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0		-	-	-	-	-	-	-	-	-	-
9-9.5 ft			-	-	-	-	-	-	-	-	-	-
9.5-10 ft	2.6		-	-	-	-	-	-	-	-	-	-
10-10.5 ft	0.27		-	-	-	-	-	0.27	-	-	0.14	-
10.5-11 ft	6.5		-	-	-	-	-	-	-	-	-	-
11-11.5 ft	0.54		-	-	-	-	-	-	-	-	-	0.54
Average Depth to Water	11.46		9.25	9.27	9.18	9.28	10.03	10.13	9.56	9.61	13.16	12.19

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XI
SOIL CONCENTRATION PROFILE - AOC-08B: BENZO(A)P'
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC8B-2013-100 2/25/2013	SB-AOC8B-2013-101 2/25/2013	SB-AOC8B-2013-102 2/25/2013	SB-AOC8B-2013-103 2/25/2013	SB-AOC8B-2013-104 2/25/2013	SB-AOC8B-2013-105 2/25/2013	SB-AOC8B-2013-106 2/25/2013	SB-AOC8B-2013-107 2/25/2013	SB-AOC8B-2013-108 2/25/2013	SB-AOC8B-2013-109 2/25/2013
0-0.5 ft	21		0.2	0.27	17	3.7	4.4	5.3	1.5	1.6	1.1	12
0.5-1 ft	6.9		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	18		0.014	0.11	4.6	17	18	1.3	5.5	7.1	0.47	3.2
1.5-2 ft	15		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	13		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	0		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.3		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	2.7		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.62		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0.49		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	0.49		-	-	-	-	-	-	-	-	-	-
7-7.5 ft	2.7		-	-	-	-	-	-	-	-	-	-
7.5-8 ft	7.4		-	-	-	-	-	-	1.2	7.4	0.3	-
8-8.5 ft	0.52		-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0		-	-	-	-	-	-	-	-	-	-
9-9.5 ft			-	-	-	-	-	-	-	-	-	-
9.5-10 ft	2.6		0	0.21	1.1	0	1.6	0	-	-	-	2.6
10-10.5 ft	0.27		-	-	-	-	-	-	-	-	-	-
10.5-11 ft	6.5		-	-	-	-	-	-	-	-	-	-
11-11.5 ft	0.54		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	11.46		17.86	12.62	11.45	11.27	10.20	10.66	8.98	8.55	8.54	11.19

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XII
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B10-3 7/16/1998	B10-7 7/16/1998	B10-8 7/17/1998	B8-2 7/13/1998	B8-3-100 1/9/2011	B8-3-101 1/9/2011	B8-3-102 1/9/2011	B8-3-103 1/9/2011	B8-4-100 1/12/2011	B8-4-102 1/12/2011
0-0.5 ft	12		-	-	0	0.094	0	0	0	0	1.1	2.3
0.5-1 ft	0.44		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	6.1		-	-	-	-	-	-	-	-	-	-
1.5-2 ft	1.7		-	-	0	-	-	-	-	-	1.7	1.2
2-2.5 ft	1.4		0.3	-	-	-	-	-	-	-	-	-
2.5-3 ft	1.4		0.3	-	-	-	0.11	0.71	0.91	0.17	-	-
3-3.5 ft	1.4		0.3	-	-	-	-	-	-	-	-	-
3.5-4 ft	1.4		0.3	0	-	0.24	-	-	-	-	-	-
4-4.5 ft	4.4		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	3.6		-	-	-	-	-	-	-	-	-	-
5-5.5 ft	1.1		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.85		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0.081		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	16		-	-	-	-	-	-	-	-	-	-
7.5-8 ft	3		-	-	-	-	-	-	-	-	-	-
8-8.5 ft			-	-	-	-	-	-	-	-	1.8	0
8.5-9 ft	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		10.22	5.66	5.45	9.45	8.62	8.57	8.72	8.63	9.11	8.72

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XII
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)PYI
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	B9-19 7/17/1998	HSO12 9/24/2002	HSO13 9/24/2002	HSO14 9/24/2002	MW-62 11/11/2010	MW-63 11/11/2010	MW-64 11/12/2010	MW-75 1/11/2011	SB-10-SO-1 2/16/1994	SB-10-SO-10-100 1/11/2011
0-0.5 ft	12		0.27	0.39	0.12	0.17	0.47	0.42	0.78	0	0.44	0.15
0.5-1 ft	0.44		-	-	-	-	-	-	-	-	0.44	-
1-1.5 ft	6.1		-	-	-	-	-	-	-	-	0.44	-
1.5-2 ft	1.7		-	-	-	-	-	-	-	-	0.44	-
2-2.5 ft	1.4		-	-	-	-	-	0.093	0.046	-	-	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	-	-	-	-	-	-	-	0.26
3.5-4 ft	1.4		-	-	-	-	-	-	-	-	-	-
4-4.5 ft	4.4		-	-	-	-	-	-	-	-	0	-
4.5-5 ft	3.6		-	-	-	-	-	-	-	-	0	0.11
5-5.5 ft	1.1		-	-	-	-	0	-	-	-	0	-
5.5-6 ft	0.85		-	-	-	-	-	-	-	-	0	-
6-6.5 ft	0.081		-	-	-	-	-	-	-	-	-	0.081
6.5-7 ft	16		-	-	-	-	-	-	-	-	-	-
7.5-8 ft	3		-	-	-	-	-	-	-	-	-	-
8-8.5 ft			-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		8.10	8.06	7.73	7.95	8.15	6.70	8.59	8.98	6.22	7.91

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XII
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)PYI
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-10-101 1/11/2011	SB-10-SO-10-102 1/11/2011	SB-10-SO-10-103 1/11/2011	SB-10-SO-11-100 1/11/2011	SB-10-SO-11-101 1/11/2011	SB-10-SO-11-102 1/11/2011	SB-10-SO-11-103 1/11/2011	SB-10-SO-205 12/13/2013	SB-10-SO-206 12/13/2013	SB-10-SO-208 2/6/2014
0-0.5 ft	12		0	0	0.074	0.073	0.33	0.23	0.38	-	-	-
0.5-1 ft	0.44		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	6.1		-	-	-	0.34	0.28	0.85	0.72	-	-	-
1.5-2 ft	1.7		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		0.066	0	0.059	-	-	-	-	-	-	-
3.5-4 ft	1.4		-	-	-	-	-	-	-	-	-	-
4-4.5 ft	4.4		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	3.6		0.07	0.1	0.14	0	0.7	0.31	0.61	-	-	-
5-5.5 ft	1.1		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.85		-	0	-	0.11	0.5	0	0.85	-	-	-
6-6.5 ft	0.081		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	16		0.13	-	0.25	-	-	-	-	16	4.6	-
7.5-8 ft	3		-	-	-	-	-	-	-	-	-	-
8-8.5 ft			-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		7.87	8.00	7.89	5.86	5.84	5.94	5.77	8.73	8.64	10.11

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XII
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)PYI
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-209 2/6/2014	SB-10-SO-210 2/6/2014	SB-10-SO-2-100 1/8/2011	SB-10-SO-2-101 1/8/2011	SB-10-SO-2-102 1/8/2011	SB-10-SO-2-103 1/8/2011	SB-10-SO-215 12/13/2013	SB-10-SO-216 12/13/2013	SB-10-SO-217 12/13/2013	SB-10-SO-3 2/15/1994
0-0.5 ft	12		-	-	-	-	-	-	-	-	-	0.41
0.5-1 ft	0.44		-	-	-	-	-	-	-	-	-	0.41
1-1.5 ft	6.1		-	-	-	-	-	-	0.059	0.25	3.9	0.26
1.5-2 ft	1.7		-	-	-	-	-	-	0.055	-	-	0.26
2-2.5 ft	1.4		-	-	-	-	-	-	-	-	0.2	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	-	-	-	-	-	-	-	0
3.5-4 ft	1.4		-	-	0.4	0	0.011	0.076	-	-	-	0
4-4.5 ft	4.4		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	3.6		-	-	-	-	-	-	-	-	-	-
5-5.5 ft	1.1		-	-	-	-	-	-	-	-	-	0
5.5-6 ft	0.85		-	-	0	0	0	0	-	-	-	0
6-6.5 ft	0.081		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	16		-	-	0	0	0	0	-	-	-	-
7.5-8 ft	3		-	-	-	-	-	-	-	-	-	-
8-8.5 ft			-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		10.57	10.62	7.60	7.59	7.64	7.55	18.98	20.16	20.37	7.90

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XII
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)PYI
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-4 2/11/1994	SB-10-SO-5-100 1/18/2011	SB-10-SO-5-101 1/10/2011	SB-10-SO-5-102 1/10/2011	SB-10-SO-5-103 1/10/2011	SB-10-SO-5A-100 1/18/2011	SB-10-SO-5A-101 1/18/2011	SB-10-SO-5A-102 1/18/2011	SB-10-SO-7-100 1/19/2011	SB-10-SO-7-101 1/19/2011
0-0.5 ft	12		0.13	0.047	0.12	0.21	0.13	-	-	-	0.4	0.37
0.5-1 ft	0.44		0	-	-	-	-	-	-	-	-	-
1-1.5 ft	6.1		0	-	4.2	0	0.064	-	-	-	6.1	0
1.5-2 ft	1.7		0	0.49	-	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	-	-	-	-	0.19	0.063	0.081	-	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	1.4		-	-	-	-	-	-	-	-	-	-
4-4.5 ft	4.4		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	3.6		-	0.056	0.19	0.16	0.29	0.47	0.074	0.3	0	0
5-5.5 ft	1.1		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.85		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0.081		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	16		-	-	-	-	-	-	-	-	-	-
7.5-8 ft	3		-	-	-	-	-	-	-	-	-	-
8-8.5 ft			-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.049		-	-	-	-	-	-	-	-	-	0.049
Average Depth to Water	8.31		4.59	6.64	6.60	6.66	6.65	5.79	5.81	5.80	8.89	9.00

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XII
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)PYI
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-10-SO-7-102 1/19/2011	SB-10-SO-7-103 1/19/2011	SB-10-SO-9 2/14/1994	SB-10-SO-9-100 1/20/2011	SB-10-SO-9-101 1/20/2011	SB-10-SO-9-102 1/20/2011	SB-10-SO-9-103 1/20/2011	SB-AOC10-2013-100 2/22/2013	SB-AOC10-2013-101 2/22/2013	SB-AOC10-2013-102 2/22/2013
0-0.5 ft	12		0.19	0.038	0	0	0	0	0	0.73	0.41	1.7
0.5-1 ft	0.44		-	-	0	-	-	-	-	-	-	-
1-1.5 ft	6.1		0	0	0	-	-	-	-	-	-	-
1.5-2 ft	1.7		-	-	0	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	-	1.4	0	0	0	0	-	-	-
2.5-3 ft	1.4		-	-	1.4	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	1.4	-	-	-	-	-	-	-
3.5-4 ft	1.4		-	-	1.4	-	-	-	-	-	-	-
4-4.5 ft	4.4		-	-	0.27	0	0	0	0	-	-	-
4.5-5 ft	3.6		0.21	0.078	0.27	-	-	-	-	-	-	-
5-5.5 ft	1.1		-	-	0.27	-	-	-	-	1.1	0.22	0
5.5-6 ft	0.85		-	0.31	0.27	-	-	-	-	-	-	-
6-6.5 ft	0.081		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	16		0.34	-	-	-	-	-	-	-	-	-
7.5-8 ft	3		-	-	-	-	-	-	-	-	0	-
8-8.5 ft			-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		8.89	8.83	9.20	9.64	9.49	9.63	9.71	7.34	9.30	7.13

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XII
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)PYI
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-103 2/22/2013	SB-AOC10-2013-104 2/22/2013	SB-AOC10-2013-105 2/22/2013	SB-AOC10-2013-106 2/22/2013	SB-AOC10-2013-107 2/22/2013	SB-AOC10-2013-108 2/22/2013	SB-AOC10-2013-109 2/22/2013	SB-AOC10-2013-110 2/22/2013	SB-AOC10-2013-111 2/22/2013	SB-AOC10-2013-112 2/22/2013
0-0.5 ft	12		0.16	0.17	0.033	0.13	0.67	2.2	0.042	6.1	1.2	0.0091
0.5-1 ft	0.44		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	6.1		-	-	-	-	-	-	-	-	-	-
1.5-2 ft	1.7		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	1.4		-	-	-	-	0.036	0.46	0.11	-	-	-
4-4.5 ft	4.4		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	3.6		-	-	-	-	-	-	-	3.6	0.61	0
5-5.5 ft	1.1		0.048	0.041	0	0.35	-	-	-	-	-	-
5.5-6 ft	0.85		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0.081		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	16		-	-	-	-	0.15	6.2	-	-	-	-
7.5-8 ft	3		3	-	-	-	-	-	0	-	-	-
8-8.5 ft			-	-	-	-	-	-	0	-	-	-
8.5-9 ft	0.049		-	-	-	-	-	-	0	-	-	-
Average Depth to Water	8.31		9.27	9.43	8.26	8.24	8.30	9.72	9.53	9.20	9.17	9.23

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XII
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)PYI
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-113 2/22/2013	SB-AOC10-2013-114 2/22/2013	SB-AOC10-2013-115 2/21/2013	SB-AOC10-2013-116 2/21/2013	SB-AOC10-2013-117 2/21/2013	SB-AOC10-2013-118 2/21/2013	SB-AOC10-2013-119 2/21/2013	SB-AOC10-2013-120 2/21/2013	SB-AOC10-2013-121 2/21/2013	SB-AOC10-2013-122 2/21/2013
0-0.5 ft	12		0.08	0.026	0.78	12	1.3	0.43	0.38	0.69	0.098	0.31
0.5-1 ft	0.44		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	6.1		-	-	-	-	-	-	-	-	-	-
1.5-2 ft	1.7		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	1.4		-	-	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	1.4		-	-	-	-	-	-	-	-	0.22	0
4-4.5 ft	4.4		-	-	-	-	4.4	0.36	0	0.49	-	-
4.5-5 ft	3.6		0.99	0	2.8	0.85	-	-	-	-	-	-
5-5.5 ft	1.1		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.85		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0.081		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	16		-	-	-	-	-	-	-	-	0	0.58
7.5-8 ft	3		-	-	-	-	0	-	-	-	-	-
8-8.5 ft			-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		8.30	8.94	7.92	8.64	8.04	6.64	7.30	5.75	7.18	6.74

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XII
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)PYI
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	SB-AOC10-2013-123 2/21/2013	SB-AOC10-2013-124 2/21/2013	SB-AOC10-2013-125 2/21/2013	SB-AOC10-2013-126 2/21/2013	SB-AOC10-2013-127 2/21/2013	SB-AOC10-2013-128 2/21/2013	SB-AOC10-2013-129 2/21/2013	WSO2 10/2/2002	WSO6 10/11/2002	WSO7 10/11/2002
0-0.5 ft	12		0.31	-	0.24	1.4	0.67	0.23	0.035	0.1	0.27	-
0.5-1 ft	0.44		-	0.4	-	-	-	-	-	-	-	-
1-1.5 ft	6.1		-	0.4	-	-	-	-	-	-	-	0.19
1.5-2 ft	1.7		-	0.4	-	-	-	-	-	-	-	-
2-2.5 ft	1.4		-	0.4	-	-	-	-	-	-	-	-
2.5-3 ft	1.4		-	0.4	-	-	-	-	-	-	-	-
3-3.5 ft	1.4		-	0.4	-	-	-	-	-	-	-	-
3.5-4 ft	1.4		0.7	1.2	0	0.02	0.3	0.058	0.29	-	-	-
4-4.5 ft	4.4		-	-	-	-	-	-	-	-	-	-
4.5-5 ft	3.6		-	-	-	-	-	-	-	-	-	-
5-5.5 ft	1.1		-	-	-	-	-	-	-	-	-	-
5.5-6 ft	0.85		-	-	-	-	-	-	-	-	-	-
6-6.5 ft	0.081		-	-	-	-	-	-	-	-	-	-
6.5-7 ft	16		0	0	0	0	0	0	0	-	-	-
7.5-8 ft	3		-	-	-	-	-	-	-	-	-	-
8-8.5 ft			-	-	-	-	-	-	-	-	-	-
8.5-9 ft	0.049		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	8.31		6.62	7.29	7.98	9.18	8.46	7.29	6.71	4.78	5.28	9.45

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XII
SOIL CONCENTRATION PROFILE - AOC-10: BENZO(A)PYR
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	WSO9 10/11/2002
0-0.5 ft	12		-
0.5-1 ft	0.44		0
1-1.5 ft	6.1		-
1.5-2 ft	1.7		-
2-2.5 ft	1.4		-
2.5-3 ft	1.4		-
3-3.5 ft	1.4		-
3.5-4 ft	1.4		-
4-4.5 ft	4.4		-
4.5-5 ft	3.6		-
5-5.5 ft	1.1		-
5.5-6 ft	0.85		-
6-6.5 ft	0.081		-
6.5-7 ft	16		-
7.5-8 ft	3		-
8-8.5 ft			-
8.5-9 ft	0.049		-
Average Depth to Water	8.31		6.34

- Notes:**
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XIII
SOIL CONCENTRATION PROFILE - AOC-11: BENZO(A)PYRENE
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	BF-S10 10/6/2000	BF-S11 10/6/2000	BF-S13 10/23/2000	BF-S16 10/23/2000	BF-S18 10/23/2000	BF-S1A 5/22/2014	BF-S2 10/6/2000	BF-S20 10/23/2000	BF-S21 10/23/2000	BF-S22 10/23/2000
0-0.5 ft	0.79		0.41	0.063	0.49	0.5	0.61	-	-	0.075	0.096	0.059
0.5-1 ft	0		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	0.094		-	-	-	-	-	0	0.016	-	-	-
1.5-2 ft	0		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	0.069		-	-	-	-	-	-	-	-	-	-
2.5-3 ft	0.14		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft	0		-	-	-	-	-	-	-	-	-	-
8-8.5 ft	0		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	5.38		2.81	4.02	2.05	4.80	5.08	5.50	2.39	4.42	3.11	3.23

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XIII
SOIL CONCENTRATION PROFILE - AOC-11: BENZO(A)PYI
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	BF-S6 10/23/2000	BF-S7 10/6/2000	BF-S9 10/6/2000	CSO1 10/2/2002	CSO2 10/2/2002	CSO3 10/2/2002	MW-16C 1/6/2011	MW-66 2/23/2011	MW-67 2/23/2011	MW-68 2/23/2011
0-0.5 ft	0.79		-	0.22	0.046	-	0	0	0.1	0.065	0	0
0.5-1 ft	0		-	-	-	-	-	-	-	-	-	-
1-1.5 ft	0.094		-	-	-	0.094	0	0	-	-	-	-
1.5-2 ft	0		-	-	-	-	-	-	-	-	-	-
2-2.5 ft	0.069		0.069	-	-	-	-	-	-	-	-	-
2.5-3 ft	0.14		-	-	-	-	-	-	-	-	-	-
3.5-4 ft	0		-	-	-	-	-	-	-	-	-	-
7.5-8 ft	0		-	-	-	-	-	-	-	-	-	0
8-8.5 ft	0		-	-	-	-	-	-	-	-	-	-
Average Depth to Water	5.38		4.31	4.10	3.83	5.33	7.05	6.52	5.02	4.48	6.44	12.16

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

TABLE C.XIII
SOIL CONCENTRATION PROFILE - AOC-11: BENZO(A)PYI
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Sampling Interval (ft bgs)	Max Concentration (mg/kg)	Sample Name Collection Date	MW-71 2/23/2011	SB-10-SO-8 2/11/1994	SB-11-SO-200 4/25/2012	SB-11-SO-201 4/25/2012	WSO3 10/2/2002	WSO4 10/2/2002
0-0.5 ft	0.79		0	0	0	0.79	-	-
0.5-1 ft	0		-	0	-	-	-	-
1-1.5 ft	0.094		-	0	-	-	-	-
1.5-2 ft	0		-	0	-	-	-	-
2-2.5 ft	0.069		-	0	-	-	-	0.0091
2.5-3 ft	0.14		-	0	-	-	0.14	-
3.5-4 ft	0		-	-	0	0	-	-
7.5-8 ft	0		-	-	-	-	-	-
8-8.5 ft	0		0	-	-	-	-	-
Average Depth to Water	5.38		9.90	5.95	4.75	7.54	11.96	3.23

Notes:
1. Samples that returned non-detect values or concentrations below the default impact to groundwater soil remediation standard were replaced with 0 values in the SESOIL analysis.

ATTACHMENT D

Ecological Evaluation

TABLE E-1a
SUMMARY OF SOIL ANALYTICAL RESULTS
AOC-11 AND AOC-12 SOIL DATA IN WETLANDS AREA
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

	Location	NJDEP Wildlife	NJDEP (EcoSSL)	BF-S13	BF-S21	BF-S22	CSO3	MW-16C	MW-66	MW-67	SB-10-SO-8	ASO1	ASO4	ASO5	ASO6	B6-12	ISO16	ISO17	ISO18	ISO19	ISO20
	Sample Date	PRGs Ecological	Ecological	10/23/2000	10/23/2000	10/23/2000	10/02/2002	01/06/2011	02/23/2011	02/23/2011	02/11/1994	09/09/2002	09/11/2002	09/11/2002	09/11/2002	08/04/1998	06/04/2003	06/04/2003	06/04/2003	06/04/2003	06/04/2003
	Sample Depth (bgs)	Screening Criteria	Screening Criteria	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 1.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)
Inorganic Compounds (mg/kg)																					
Antimony	5			-	-	-	ND (1.6)	0.44 J	0.76	ND (0.6)	ND (0.68) J	ND (0.88)	ND (1)	ND (0.98)	ND (1.1)	ND (0.28)	-	-	-	-	-
Arsenic	9.9	18 - 46		3.7	5	4.1	5.9 J	9.4	6.9	4.7	2.4	5.6	1.3	2.7	1.3	18 [A]	16.8 [A]	11.8 [A]	10.6 [A]	13.7 [A]	10.4 [A]
Barium	283			-	-	-	-	141	172	80.8	-	-	-	-	-	75	-	-	-	-	-
Beryllium	10			1.9	0.52	0.9	2.4	2	2.4	1.4	0.88	0.64	2.2 J	1.8 J	1.3 J	ND (0.55)	-	-	-	-	-
Cadmium	4			0.21 B	ND (0.099)	ND (0.1)	ND (0.16)	ND (0.61)	ND (0.63)	ND (0.6)	ND (1)	ND (0.09)	ND (0.092)	ND (0.088)	ND (0.094)	2.4	-	-	-	-	-
Chromium	0.4	26 - 34		22.7 [A]	15.6 [A]	16.5 [A]	57.7 [A]	28 [A]	26.2 [A]	19.6 [A]	13 [A]	19.8 [A]	16 [A]	14.8 [A]	11.5 [A]	36 [A]	55.9 [A]	18.1 [A]	20.5 [A]	21.3 [A]	90.7 [A]
Chromium VI (Hexavalent)	-			ND (2)	ND (2)	ND (2)	-	-	-	-	-	ND (2)	ND (2)	ND (2)	ND (2)	-	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Cobalt	20	13 - 230		-	-	-	-	12.9	10.6	5.5	-	-	-	-	-	-	-	-	-	-	-
Copper	5.4	28 - 70		-	-	-	48.1 [A]	40 [A]	18.5 [A]	22.2 [A]	12 [A]	14.2 [A]	5.4 J	6.3 J [A]	1.3 J	53 [A]	381 [A]	72.6 [A]	63.5 [A]	86 [A]	64.6 [A]
Cyanide	1.33			-	-	-	-	-	-	-	ND (2)	-	-	-	-	-	-	-	-	-	-
Lead	40.5	11 - 1700		92.8 [A]	52.2 [A]	44.5 [A]	29.3	78.7 [A]	53.3 [A]	19.7	15	15.9	19.2 J	10.6 J	12.7 J	100 [A]	213 [A]	142 [A]	107 [A]	211 [A]	150 [A]
Manganese	-			-	-	-	-	1050	468	531	-	-	-	-	-	-	-	-	-	-	-
Mercury	0.1	0.3		0.02 B	0.1	0.09	0.03 J	ND (0.043)	0.047	0.036	ND (0.12)	0.03 J	ND (0.019)	ND (0.018)	ND (0.02)	ND (0.11)	-	-	-	-	-
Nickel	13.6	38 - 280		23.4 [A]	8.9 B	11.1	41.7 [A]	17.5 [A]	15.3 [A]	9.1	13	11.8	22.2 [A]	15.8 [A]	8.7 J	52 [A]	144 [A]	16.8 B [A]	18.6 B [A]	16.1 B [A]	15.4 B [A]
Selenium	0.21	0.52 - 4.1		-	-	-	ND (1.6)	1.8 [A]	1.6 [A]	2 [A]	ND (0.5) J	ND (0.88)	ND (1)	ND (0.98)	ND (1.1)	ND (11)	-	-	-	-	-
Silver	2			ND (0.31)	ND (0.34)	ND (0.36)	ND (0.28)	ND (1.2)	ND (1.3)	ND (1.2)	ND (1.5)	ND (0.16)	ND (0.25)	ND (0.24)	ND (0.26)	ND (2.7)	-	-	-	-	-
Thallium	1			-	-	-	ND (1.8)	ND (0.24)	ND (0.25)	ND (0.24)	ND (0.5)	ND (0.99)	ND (0.94)	ND (0.9)	ND (0.96)	ND (0.55)	-	-	-	-	-
Vanadium	2	7.8 - 280		-	-	-	-	35.8 [A]	32.5 [A]	21.5 [A]	-	-	-	-	-	-	-	-	-	-	-
Zinc	6.62	46 - 160		104 [A]	45.6 [A]	51.3 [A]	126 [A]	79.7 [A]	90.9 [A]	45.1 [A]	37 [A]	50.4 [A]	146 [A]	513 [A]	55.5 [A]	640 [A]	1600 [A]	112 [A]	92 [A]	85.9 [A]	116 [A]

- Notes:
- Results in **red** exceeds the following criteria:
[A] - NJDEP Wildlife PRGs (flora and fauna) Ecological Screening Criteria
 - Results in **bold** were detected.
 - ND - Not detected
J - Estimated results
 - Locations shown are not excavated. Sample depth intervals are 0 - 0.5 feet.
 - Samples obtained from locations WSO16, WSO17 and WSO18 are not shown as they were sampled for Cr(VI) and PCBs but were below the detection limit. Samples BF-S11, BF-S20, BF-S9 and SB-7-SO-2 are not shown as they were not analyzed for metals and were ND for Cr(VI).
 - All PCBs, SVOCs, PAHs and VOCs are not shown as they were below conservative Wildlife PRG Ecological Screening Criteria.

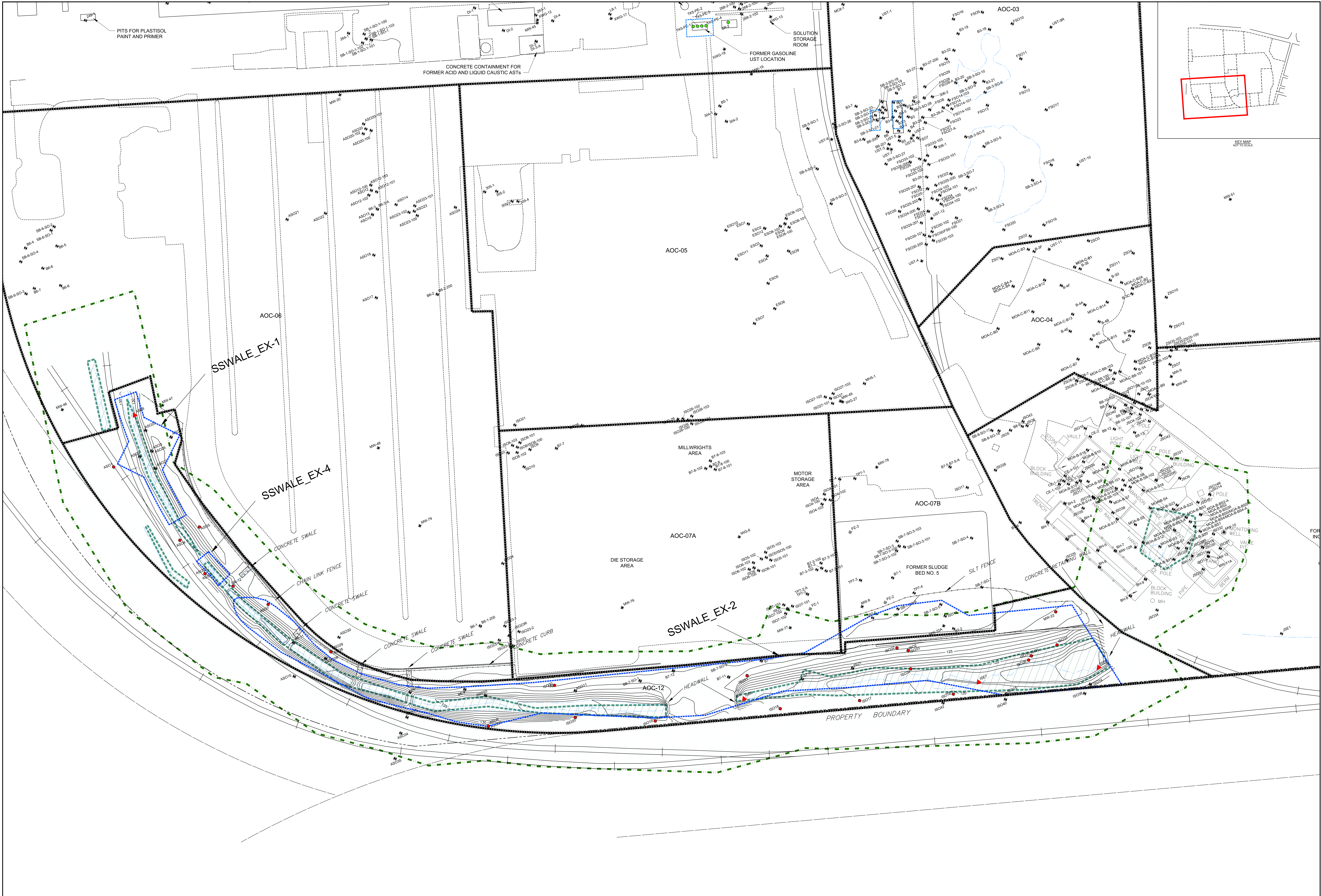
TABLE E-1b
SUMMARY OF SOIL ANALYTICAL RESULTS
AOC-11 AND AOC-12 SOIL DATA IN WETLANDS AREA
EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

Location	NJDEP Wildlife	NJDEP (EcoSSL)	BF-S1	CSO1	CSO2	CSO3	SB-10-SO-8	SB-10-SO-8	SB-10-SO-8	WSO3	WSO4	ASO1	ASO29	ISO34
Sample Date	PRGs Ecological	Ecological	10/06/2000	10/02/2002	10/02/2002	10/02/2002	02/11/1994	02/11/1994	02/11/1994	10/02/2002	10/02/2002	09/09/2002	07/22/2003	07/21/2003
Sample Depth (bgs)	Screening Criteria	Screening Criteria	1 - 1.5 (ft)	1 - 1.5 (ft)	1 - 1.5 (ft)	1 - 1.5 (ft)	0 - 1.5 (ft)	0.5 - 1 (ft)	1.5 - 3 (ft)	2.5 - 3 (ft)	2 - 2.5 (ft)	0.5 - 1 (ft)	1 - 1.5 (ft)	2.75 - 3.25 (ft)
Inorganic Compounds (mg/kg)														
Antimony	5		-	ND (0.93)	ND (0.97)	ND (0.96)	ND (0.68) J	-	ND (0.72) J	-	-	ND (0.88)	-	-
Arsenic	9.9	18 - 46	-	4.5 J	6.1 J	6.3 J	2.4	-	1.7	5.2 J	2.1 J	2.1	3.2	7.9
Barium	283		-	-	-	-	-	-	-	93.5	58.7	-	-	-
Beryllium	10		-	0.78	0.98	0.93	0.88	-	0.53	-	-	1.4	-	-
Cadmium	4		-	ND (0.096)	ND (0.099)	ND (0.098)	ND (1)	-	ND (1)	-	-	ND (0.09)	-	-
Chromium	0.4	26 - 34	-	12.9 ^[A]	17.7 ^[A]	14.2 ^[A]	13 ^[A]	-	8 ^[A]	14.6 ^[A]	8.4 ^[A]	18.9 ^[A]	-	-
Chromium VI (Hexavalent)	-		8.6	-	-	-	-	-	-	ND (2)	3.7	ND (2)	-	-
Copper	5.4	28 - 70	-	7.3 ^[A]	7.7 ^[A]	9.3 ^[A]	12 ^[A]	-	2.6	17.3 ^[A]	3.4 J	13 ^[A]	-	60.7 ^[A]
Cyanide	1.33		-	-	-	-	ND (2)	ND (2)	ND (2)	ND (0.5)	ND (0.5)	-	-	-
Lead	40.5	11 - 1700	-	22.6	12.8	19.1	15	-	6.7	31.4	7.1	21.1	-	-
Mercury	0.1	0.3	-	0.02 J	0.02 J	0.09	ND (0.12)	-	ND (0.1)	-	-	0.03	-	-
Nickel	13.6	38 - 280	-	9.8	11.3	10	13	-	4.8	11.5	3.4 J	23.1 ^[A]	15.8 ^[A]	-
Selenium	0.21	0.52 - 4.1	-	ND (0.93)	ND (0.97)	ND (0.96)	ND (0.5) J	-	ND (0.5) J	-	-	ND (0.88)	-	-
Silver	2		-	ND (0.17)	ND (0.17)	ND (0.17)	ND (1.5)	-	ND (1.5)	-	-	ND (0.16)	-	-
Thallium	1		-	ND (1.1)	ND (1.1)	ND (1.1)	ND (0.5)	-	ND (0.5)	-	-	ND (0.99)	-	-
Zinc	6.62	46 - 160	-	33.2 ^[A]	33.9 ^[A]	59.3 ^[A]	37 ^[A]	-	14 ^[A]	63.9 ^[A]	20.5 ^[A]	57 ^[A]	167 ^[A]	1620 ^[A]

Notes:

- Results in **red** exceeds the following criteria:
[A] - NJDEP Wildlife PRGs (flora and fauna) Ecological Screening Criteria
- Results in **bold** were detected.
- ND - Not detected
J - Estimated results
- Locations shown are not excavated. Sample depth intervals are 0.5 - 3 feet.
- Samples BS-S2, WSO16, WSO17 and WSO18 are not shown as they were not analyzed for metals and were ND for Cr(VI).
- All PCBs, SVOCs, PAHs and VOCs are not shown as they were below conservative Wildlife PRG Ecological Screening Criteria.

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LEGEND:

● SOIL BORING LOCATION

● MONITORING WELL LOCATION

● ONE OR MORE CHEMICALS EXCEED ECOLOGICAL SCREENING - SOIL

● CHEMICALS DO NOT EXCEED ECOLOGICAL SCREENING - SOIL

▲ ONE OR MORE CHEMICALS EXCEED ECOLOGICAL SCREENING - SEDIMENT

▲ CHEMICALS DO NOT EXCEED ECOLOGICAL SCREENING - SEDIMENT

--- EXCAVATION LIMITS

--- WATER LIMITS

--- SITE BOUNDARY

--- AOC BOUNDARY

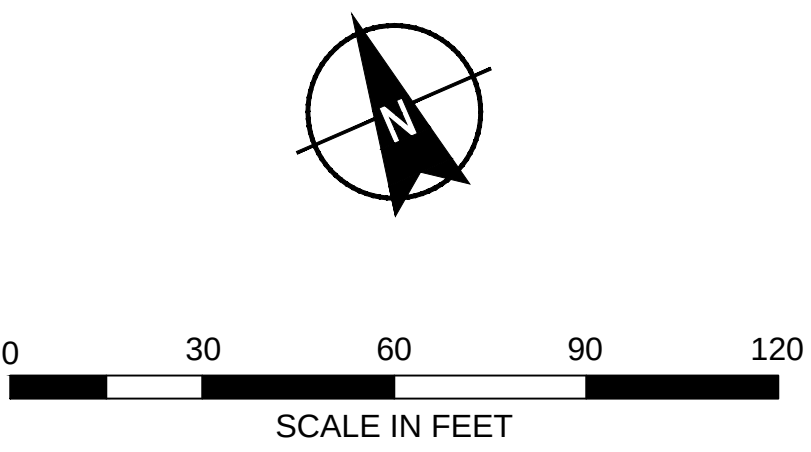
WETLANDS AREA

WETLANDS TRANSITION AREA

NOTES:

1. MONITORING WELL LOCATIONS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S. DATED NOVEMBER 20, 2002, REVISED TO APRIL 15, 2013. BOUNDARY INFORMATION SHOWN IS BASED ON A SURVEY PERFORMED BY GERALD G. DEGROAT, L.S. DATED JUNE 21, 2005. BEARINGS SHOWN ARE BASED ON DEED BOOK 4512, PAGE 252. WETLANDS DELINEATED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS, INC., FLEMINGTON, N.J., JUNE, 2005. WETLAND BOUNDARIES SHOWN BASED ON A WETLAND SURVEY PERFORMED BY GERALD G. DEGROAT, L.S. DATED JUNE 21, 2005, REVISED TO JANUARY 20, 2006.

2. RESULTS SCREENED AGAINST THE FOLLOWING CRITERIA:
SOIL - PRG ECO WILDLIFE SCREENING
SEDIMENT - LOWEST EFFECT SEDIMENT CRITERIA



HALEY ALDRICH REMEDIAL ACTION REPORT
RACER TRUST - EWING TOWNSHIP INDUSTRIAL LAND
EWING, NEW JERSEY

**ECOLOGICAL SCREENING IN WETLAND
AREA**

SCALE: AS SHOWN
JUNE 2017

FIGURE 1